



ELECTRICAL DESIGN GROUP

ELECTRICAL BUILDING SERVICES CONSULTANTS

P.O. Box 15, SHERWOOD Q. 4075

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C3474a - KINGS CHRISTIAN COLLEGE - CHAMBERS FLAT, SENIOR SCHOOL CHA12

C3474a-0001(C).xls

ELECTRICAL SERVICES CONTRACT DOCUMENT SCHEDULE

REVISION C - 16 FEBRUARY 2026

| ISSUING INFORMATION | | | | DATE OF ISSUE | | | | | | | | |
|---|--|--|--|---------------|----|----|--|--|--|--|--|--|
| | DAY MONTH YEAR REASON FOR ISSUE | | | 18 | 26 | 16 | | | | | | |
| | | | | 12 | 01 | 02 | | | | | | |
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| A = APPROVAL C = CONSTRUCTION N = COORDINATION P = PRELIMINARY T = TENDER | | | | | | | | | | | | |

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| DOCUMENTS | | REVISION | | | | | | | | | |
|-----------------|-------------------------------------|----------|---|---|--|--|--|--|--|--|--|
| C3474a-E01.dwg | LEGEND & DETAILS | A | B | C | | | | | | | |
| C3474a-E02.dwg | SCHEMATICS | A | B | C | | | | | | | |
| C3474a-E03.dwg | NOTES | A | B | C | | | | | | | |
| C3474a-E04.dwg | SITE PLAN | A | B | | | | | | | | |
| C3474a-E05.dwg | GROUND LEVEL FLOOR PLAN | A | B | C | | | | | | | |
| C3474a-E06.dwg | GROUND LEVEL REFLECTED CEILING PLAN | A | B | | | | | | | | |
| C3474a-E07.dwg | LEVEL 1 FLOOR PLAN | A | B | C | | | | | | | |
| C3474a-E08.dwg | LEVEL 1 REFLECTED CEILING PLAN | A | B | | | | | | | | |
| C3474a-E09.dwg | LEVEL 2 FLOOR PLAN | A | B | C | | | | | | | |
| C3474a-E10.dwg | LEVEL 2 REFLECTED CEILING PLAN | A | B | C | | | | | | | |
| C3474a-E11.dwg | LANDSCAPE LIGHTING PLAN | | A | | | | | | | | |
| C3474a-0001.xls | CONTRACT DOCUMENT SCHEDULE | A | B | C | | | | | | | |
| C3474a-0002.xls | EQUIPMENT SCHEDULE | A | B | C | | | | | | | |
| C3474a-0004.xls | DISTRIBUTION BOARD DB-12P SCHEDULE | | A | B | | | | | | | |
| C3474a-0005.xls | DISTRIBUTION BOARD DB-12L SCHEDULE | | A | | | | | | | | |
| C3474a-0001.zip | FITTING & OUTLET DATASHEETS | | | A | | | | | | | |
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ELECTRICAL EQUIPMENT SCHEDULE

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www.edg.net.au/links.html

| TYPE | LAMPS | DESCRIPTION | COLOUR / ACCESSORY | CATALOGUE No | REV |
|------|--|--|--------------------------------|---|-----|
| L1 | 4000K LED 17.2W/M IP20 24V DC LED STRIP | ROD SUSPENDED 2800 LONG EXTRUSION LEVEL WITH THE UNDERSIDE OF THE SUSPENDED ACOUSTIC PANELS. PROVIDE THE EXTRUSION WITH AN OPAL DIFFUSER AND ALL NECESSARY ACCESSORIES. PROVIDE A DRIVER IN A REMOTE CONCEALED POSITION NOTED ON THE AS CONSTRUCTED DRAWINGS. IT IS ACCEPTABLE TO SUPPLY MULTIPLE L1 FITTINGS FROM A SINGLE DRIVER IF IT IS APPROPRIATELY SIZED. | BLACK EXTRUSION AND SUSPENSION | M-ELEC ML-ALUSUS-K-V3 + ML-VL-17.2-.NW | C |
| L2 | 4000K LED 17.2W/M IP20 24V DC LED STRIP | ROD SUSPENDED 2400 LONG EXTRUSION LEVEL WITH THE UNDERSIDE OF THE SUSPENDED ACOUSTIC PANELS. PROVIDE THE EXTRUSION WITH AN OPAL DIFFUSER AND ALL NECESSARY ACCESSORIES. PROVIDE A DRIVER IN A REMOTE CONCEALED POSITION NOTED ON THE AS CONSTRUCTED DRAWINGS. IT IS ACCEPTABLE TO SUPPLY MULTIPLE L2 FITTINGS FROM A SINGLE DRIVER IF IT IS APPROPRIATELY SIZED. | BLACK EXTRUSION AND SUSPENSION | M-ELEC ML-ALUSUS-K-V3 + ML-VL-17.2-.NW | C |
| L3 | 60W 4000K LED | WALL MOUNTED AT RL 28. 200 UNLESS NOTED OTHERWISE ADJUSTABLE IP65 55 DEG FLOOD C/W INTEGRAL DRIVER | SILVER | GAMMA ILLUMINATION ALTUS 1342-4K | B |
| L4 | 4000K LED 17.2W/M IP20 24V DC LED STRIP | ROD SUSPENDED 1000 LONG EXTRUSION LEVEL WITH THE UNDERSIDE OF THE SUSPENDED ACOUSTIC PANELS. PROVIDE THE EXTRUSION WITH AN OPAL DIFFUSER AND ALL NECESSARY ACCESSORIES. PROVIDE A DRIVER IN A REMOTE CONCEALED POSITION NOTED ON THE AS CONSTRUCTED DRAWINGS. IT IS ACCEPTABLE TO SUPPLY MULTIPLE L3 FITTINGS FROM A SINGLE DRIVER IF IT IS APPROPRIATELY SIZED. | BLACK EXTRUSION AND SUSPENSION | M-ELEC ML-ALUSUS-K-V3 + ML-VL-17.2-.NW | A |
| L5 | 4000K LED 17.2W/M IP20 24V DC LED STRIP | ROD SUSPENDED 1800 LONG EXTRUSION LEVEL WITH THE UNDERSIDE OF THE SUSPENDED ACOUSTIC PANELS. PROVIDE THE EXTRUSION WITH AN OPAL DIFFUSER AND ALL NECESSARY ACCESSORIES. PROVIDE A DRIVER IN A REMOTE CONCEALED POSITION NOTED ON THE AS CONSTRUCTED DRAWINGS. IT IS ACCEPTABLE TO SUPPLY MULTIPLE L4 FITTINGS FROM A SINGLE DRIVER IF IT IS APPROPRIATELY SIZED. | BLACK EXTRUSION AND SUSPENSION | M-ELEC ML-ALUSUS-K-V3 + ML-VL-17.2-.NW | C |
| L6 | 22W 4000K LED | SURFACE MOUNTED CAN 55 DEG BEAM DOWNLIGHT C/W REMOTE DRIVER | BLACK | GAMMA ILLUMINATION LANO CORBEL 1440SM-VWFL-4K-22W | B |
| L7 | 22W 4000K LED | RECESSED 52 DEG BEAM DOWNLIGHT C/W REMOTE DRIVER | WHITE TRIM | GAMMA ILLUMINATION CORBEL 1401-4K-22W | A |



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|------|--|---|--------------------------------|---|-----|
| L8 | 28W 4000K LED | 600 X 600 LAY IN FLAT PLATE LED FITTING C/W REMOTE DRIVER MOUNTED IN A SURFACE MOUNTING KIT | WHITE TRIM | GAMMA ILLUMINATION PHANTOM 600X600 88 SERIES 28W C/W SCREW FREE SURFACE KIT | A |
| L9 | 4000K LED 17.2W/M IP20 24V DC LED STRIP | ROD SUSPENDED 2100 LONG EXTRUSION LEVEL WITH THE UNDERSIDE OF THE SUSPENDED ACOUSTIC PANELS. PROVIDE THE EXTRUSION WITH AN OPAL DIFFUSER AND ALL NECESSARY ACCESSORIES. PROVIDE A DRIVER IN A REMOTE CONCEALED POSITION NOTED ON THE AS CONSTRUCTED DRAWINGS. IT IS ACCEPTABLE TO SUPPLY MULTIPLE L9 FITTINGS FROM A SINGLE DRIVER IF IT IS APPROPRIATELY SIZED. | BLACK EXTRUSION AND SUSPENSION | M-ELEC ML-ALUSUS-K-V3 + ML-VL-17.2-.NW | C |
| L10 | 4000K LED 17.2W/M IP20 24V DC LED STRIP | ROD SUSPENDED 3600 LONG EXTRUSION LEVEL WITH THE UNDERSIDE OF THE SUSPENDED ACOUSTIC PANELS. PROVIDE THE EXTRUSION WITH AN OPAL DIFFUSER AND ALL NECESSARY ACCESSORIES. PROVIDE A DRIVER IN A REMOTE CONCEALED POSITION NOTED ON THE AS CONSTRUCTED DRAWINGS. IT IS ACCEPTABLE TO SUPPLY MULTIPLE L10 FITTINGS FROM A SINGLE DRIVER IF IT IS APPROPRIATELY SIZED. | BLACK EXTRUSION AND SUSPENSION | M-ELEC ML-ALUSUS-K-V3 + ML-VL-17.2-.NW | C |
| L11 | 880LM /M 4000K 24V LED | LED STRIP LIGHT IN A SCREW FIXED EXTRUSION C/W OPAL DIFFUSER MOUNTED ON THE CEILING PELMET / BULKHEAD AS PER THE ARCHITECTURAL DETAIL. PROVIDE A REMOTE POWER SUPPLY LOCATED IN A CONCEALED ACCESSIBLE POSITION NOTED ON THE AS CONSTRUCTED DOCUMENTS. | NATURAL | MELEC ML-ALU-1407-2M | A |
| L12 | 13W 4000K LED | RECESSED 52 DEG BEAM DOWNLIGHT C/W REMOTE DRIVER | WHITE TRIM | GAMMA ILLUMINATION COBALT 1402-4K-13W | B |
| L13 | 13W 4000K LED | RECESSED 40 DEG BEAM DOWNLIGHT C/W REMOTE DRIVER | WHITE TRIM | GAMMA ILLUMINATION CORBEL 1410-4K-13W | A |
| L14 | 8W 4000K LED | RECESSED 47 DEG BEAM DOWNLIGHT C/W REMOTE DRIVER | WHITE TRIM | GAMMA ILLUMINATION MYLO 1004-WFL-4K-8W | A |
| L15 | 36W LED 4000K | 1200 LONG SURFACE MOUNTED IP65 DIFFUSED BATTEN C/W INTEGRAL ELECTRONIC CONTROL GEAR AND PRESENCE DETECTION SENSOR | LIGHT GREY | GAMMA STORM 1558-CCT-36W-MS | A |
| L16 | 36W LED 4000K | 1200 LONG SURFACE MOUNTED IP65 DIFFUSED BATTEN C/W INTEGRAL ELECTRONIC CONTROL GEAR | LIGHT GREY | GAMMA STORM 1558-CCT-36W-MS | A |



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|-------|---------------|--|--------------------------------------|---|-----|
| L17 | 28W 4000K LED | SURFACE MOUNTED 109 DEG BEAM BUNKER C/W INTEGRAL DRIVER | BLACK TRIM | GAMMA ILLUMINATION MAXIMUS 1355-4K-28W | A |
| L18 | 28W 4000K LED | SURFACE MOUNTED 109 DEG BEAM BUNKER C/W INTEGRAL DRIVER | BLACK TRIM | GAMMA ILLUMINATION MAXIMUS 1355-4K-28W | A |
| L19 | 28W 4000K LED | 1000 HIGH BOLLARD LIGHT C/W INTEGRAL DRIVER AND RAG BOLT MOUNTING ENSURE THE BASE OF THE BOLLARD IS 50MM ABOVE THE SURROUNDING LANDSCAPE WITH A CONCRETED BATTER. | BLACK | GAMMA ILLUMINATION BOLO 1462-4K-28W + RAG BOLT ASSEMBLY | B |
| L20 | 28W 4000K LED | INGROUND UP LIGHT C/W INTEGRAL DRIVER AND CONCRETE SURROUND ENSURE THE TOP OF THE FITTING IS 50MM ABOVE THE SURROUNDING LANDSCAPE WITH A CONCRETED BATTER. | STAINLESS STEEL | GAMMA ILLUMINATION AURA 1059-FL-4K-28W | B |
| E1 | LED | EMERGENCY LIGHT: RECESSED NON-MAINTAINED EMERGENCY LIGHT. AS2293 CLASSIFICATION C0-D40 - C90-D40. | WHITE | STANILITE SF1LEDP | A |
| E2 | LED | EMERGENCY LIGHT: RECESSED NON-MAINTAINED EMERGENCY LIGHT MOUNT THE E2 FITTING IN A CUSTOM SURFACE MOUNTED CAN SUCH THAT THE CAN IS LEVEL WITH THE UNDERSIDE OF THE ADJACENT SUSPENDED ACOUSTIC PANEL. | BLACK FITTING AND BLACK MOUNTING CAN | STANILITE SF1LEDP PLUS CUSTOM MOUNTING CAN | A |
| E3 | LED | EMERGENCY LIGHT: SURFACE MOUNTED RECESSED NON-MAINTAINED EMERGENCY LIGHT. AS2293 CLASSIFICATION C0-D40 - C90-D40. | BLACK | STANILITE ECOSPITFIREBOXBLK | B |
| E4 | LED | EMERGENCY LIGHT: SURFACE MOUNTED RECESSED NON-MAINTAINED EMERGENCY LIGHT. AS2293 CLASSIFICATION C0-D40 - C90-D40. | WHITE | STANILITE ECOSPITFIREBOXBLK | B |
| EX | LED | EXIT LIGHT: MAINTAINED 24M VIEWING DISTANCE EXIT LIGHT C/W DIFFUSERS & DIRECTIONAL ARROWS AS SHOWN. CEILING OR WALL MOUNT BETWEEN 2100mm & 2700mm AFFL IF THERE IS NO VERTICAL SURFACE TO MOUNT THE FITTING ON WITHIN THIS RANGE CONFIRM THE MOUNTING HEIGHT WITH THE ENGINEER. AS2293 CLASSIFICATION C0-D8 - C90-E3.2. | WHITE | STANILITE PQFLEDP | A |
| EX WP | LED | EXIT LIGHT: MAINTAINED WEATHER PROOF 24M VIEWING DISTANCE EXIT LIGHT C/W DIFFUSERS & DIRECTIONAL ARROWS AS SHOWN. CEILING OR WALL MOUNT BETWEEN 2100mm & 2700mm AFFL IF THERE IS NO VERTICAL SURFACE TO MOUNT THE FITTING ON WITHIN THIS RANGE CONFIRM THE MOUNTING HEIGHT WITH THE ENGINEER. AS2293 CLASSIFICATION C0-D1.25- C90-D2 | WHITE | STANILITE WPELLBE | A |

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Pages inc. any attach. 3 of 10



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|-------------------------------------|-------|--|--------------------|----------------------------|-----|
| EMERGENCY PACK | | LIGHT FITTINGS THAT ARE DESIGNATED AS BEING PROVIDED WITH AN EMERGENCY PACK ARE TO BE PROVIDED WITH AN INTEGRAL AS2293 EMERGENCY PACK. THE FITTINGS ARE TO BE NON MAINTAINED WITH ALL LAMPS SWITCHED AS PER THE LIGHTING CONTROL FOR THAT SPACE UNLESS NOTED OTHERWISE. REFER TO THE NOTES FOR FURTHER DETAILS OF THE CONFIGURATION AND SWITCHING OF EMERGENCY LIGHTS. | | | A |
| ONE-WAY LIGHT SWITCH | | ONE-WAY LIGHT SWITCH C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNTED AT 1000mm AFFL UNLESS NOTED OTHERWISE. | WHITE | CLIPSAL C2000 SERIES 30USM | A |
| TWO-WAY LIGHT SWITCH | | TWO-WAY LIGHT SWITCH C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNTED AT 1000mm AFFL UNLESS NOTED OTHERWISE. | WHITE | CLIPSAL C2000 SERIES 30USM | A |
| SWITCH PANEL SPx | | MULTIGANG SWITCH PANEL CONFIGURED AS PER THE LIGHTING CONTROL SCHEMATIC. MOUNTED AT 1000mm AFFL UNLESS NOTED OTHERWISE. | WHITE | CLIPSAL C2000 SERIES 30USM | A |
| PROXIMITY DETECTOR SWITCH (PD) | | ADJUSTABLE FLUSH RECESSED 360 DEGREE PIR PRESENCE DETECTOR TO OPERATE THE ASSOCIATED LIGHTS FOR A PRE-SET AMOUNT OF TIME. ADJUST THE TIME AND SENSITIVITY ON SITE AS DIRECTED BY THE ENGINEER. SUBMIT DETAILS OF THE MOVEMENT DETECTOR SWITCH FOR APPROVAL PRIOR TO ORDERING | WHITE | CLIPSAL | A |
| SINGLE POWER OUTLET | | SINGLE POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND. MOUNT AT 300mm AFFL U.N.O. RATING 10A U.N.O. | WHITE | CLIPSAL C2000 SERIES | A |
| DOUBLE POWER OUTLET | | DOUBLE POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND. MOUNT AT 300mm AFFL U.N.O. RATING 10A U.N.O. | WHITE | CLIPSAL C2000 SERIES | A |
| DRINK FOUNTAIN OUTLET (DF) | | IP54 WEATHERPROOF SINGLE 10 AMP POWER OUTLET C/W COVER FLAP OVER SOCKET MOUNTED WITHIN THE DRINK FOUNTAIN HOUSING. | - | CLIPSAL WSCF227F | A |
| WEATHERPROOF POWER OUTLET (WP) | | IP54 WEATHERPROOF SINGLE / DOUBLE POWER OUTLET AS NOTED ON DRAWING C/W COVER FLAP OVER SOCKET. MOUNT AT MINIMUM 1100mm AFFL U.N.O. RATING 10A U.N.O. | - | CLIPSAL WSCF227F | A |
| IP56 WEATHERPROOF POWER OUTLET (WP) | | IP56 WEATHERPROOF SINGLE / DOUBLE POWER OUTLET AS NOTED ON DRAWING. MOUNT AT MINIMUM 1100mm AFFL U.N.O. RATING 10A U.N.O. | - | CLIPSAL "56 SERIES" | A |
| RECESS KIT (RK) | | VERTICALLY ORIENTATED WALL BOX TO ALLOW THE OUTLET TO BE RECESSED WITHIN THE WALL CAVITY | WHITE | REPELEC RECWP1WH | A |
| SPECIAL PURPOSE POWER OUTLET | | SPECIAL PURPOSE POWER OUTLET. MOUNT AT 300mm AFFL U.N.O. RATING 10A U.N.O. SIZE AND TYPE AS NOTED | - | - | A |

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Pages inc. any attach. 4 of 10



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| HAND DRYER CONNECTION (HD) | | THE ELECTRICAL SUB CONTRACTOR IS TO TAKE POSSESSION OF THE HAND DRYER AND INSTALL IT WITH 20A ISOLATING SWITCH WALL MOUNTED CONNECTED TO THE HAND DRYER UNIT AS PER DETAIL. PROVIDE CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND | WHITE | CLIPSAL "C2000 SERIES" | A |
| SINGLE-PHASE ISOLATOR | | SINGLE-PHASE WEATHERPROOF ISOLATOR. MOUNT AT 1350mm AFFL U.N.O. RATING 20A U.N.O. CONNECT TO EQUIPMENT VIA FLEXIBLE CONDUIT. | - | CLIPSAL WHT20 | A |
| THREE-PHASE ISOLATOR | | THREE-PHASE WEATHERPROOF ISOLATOR. MOUNT AT 1350mm AFFL U.N.O. RATING 20A U.N.O. CONNECT TO EQUIPMENT VIA FLEXIBLE CONDUIT. "RSD" DENOTES ROLLER SHUTTER DOOR SUPPLY - COORDINATE LOCATION ONSITE WITH MOTOR. | - | CLIPSAL WHT35 | A |
| WORKSTATION OUTLETS (A1) | | PROVIDE EACH A1 WORKSTATION OUTLET POINT AS A 20 AMP GPO AND EIGHT CAT 6 UTP COMMUNICATIONS SOCKETS WITHIN THE CEILING SPACE. PROVIDE EACH COMMUNICATION OUTLET WITH 25M OF SPARE CABLE COILED IN THE CEILING SPACE TO ALLOW THE OUTLETS TO BE RELOCATED TO THE DESKS BELOW ONCE PROVIDED BY THE COLLEGE. | | | B |
| MSB | | EXISTING MAIN SWITCHBOARD TO BE PROVIDED WITH A NEW MCCB TO SUPPLY DB-12 AS PER THE POWER SCHEMATIC AND ASSOCIATED NOTES. | | | A |
| DB-12 | | DISTRIBUTION BOARD DB-12. PROVIDE A NEW DISTRIBUTION BOARD DB-12 AS PER THE POWER SCHEMATICS AND NOTES. PROVIDE A SHOP DRAWING THE ESCUTCHEON IS TO BE HINGED AND SECURED VIA 1/4 TURN LATCHES. ENSURE THE ESCUTCHEON CAN BE OPENED WITHOUT ISOLATING THE POWER. | | | A |
| DB-12P | | PROVIDE A NEW DISTRIBUTION BOARD DB-12P AS PER THE DB-12P SCHEDULE, POWER SCHEMATICS AND NOTES. PROVIDE A SHOP DRAWING THE ESCUTCHEON IS TO BE HINGED AND SECURED VIA 1/4 TURN LATCHES. ENSURE THE ESCUTCHEON CAN BE OPENED WITHOUT ISOLATING THE POWER. | | | A |
| DB-12L | | PROVIDE A NEW DISTRIBUTION BOARD DB-12L AS PER THE DB-12L SCHEDULE, POWER SCHEMATICS AND NOTES. PROVIDE A SHOP DRAWING THE ESCUTCHEON IS TO BE HINGED AND SECURED VIA 1/4 TURN LATCHES. ENSURE THE ESCUTCHEON CAN BE OPENED WITHOUT ISOLATING THE POWER. | | | A |
| MSSB-12 | | NEW MSSB PROVIDED AS PART OF THE MECHANICAL SERVICES SUB CONTRACT. PROVIDE A MCCB IN THE MSB AND SUBMAIN AS PER THE POWER SCHEMATIC TO SUPPLY THE MSSB-12. | | | A |
| ELECTRICAL RISER | | PROVIDE THE ELECTRICAL RISER WITH A 450 WIDE GALVANIZED POWER CABLE LADDER FROM THE GROUND FLOOR TO THE LEVEL 1 CEILING SPACE AND A 300 WIDE GALVANIZED COMMUNICATIONS CABLE TRAY FROM THE GROUND FLOOR TO THE ROOF SPACE. TURN THE C3 AND C4 CONDUITS UP TO THE ASSOCIATED TRAY / LADDER. | | | B |
| M1 | | SUPPLY AUTHORITY CODE COMPLIANT LV MAXIMUM DEMAND TARIFF METER. TO REMAIN AS IS | | | A |
| M2 | | EXISTING PRIVATE MULTI FUNCTION METER TO REMAIN AS IS. | | | A |



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|---------------------------|-------|---|--------------------|----------------------|-----|
| M3 | | NCC PART J ENERGY METER. | | | B |
| M4 | | SOLAR SMART METER. | | | B |
| MTS | | EXISTING MANUAL TRANSFER SWITCH TO REMAIN AS IS. | | | A |
| CT | | EXISTING SOLAR PROTECTION CTS TO REMAIN AS IS. | | | A |
| SM | | EXISTING SOLAR NETWORK SMART METER TO REMAIN AS IS. | | | A |
| MU | | MOULDED CASE CIRCUIT BREAKER MOTOR UNIT | | | B |
| WPR | | WIRELESS CONTROLLED PROTECTION RELAY TO BE COMPATIBLE / INTERFACED WITH THE EXISTING WIRELESS PROTECTION SYSTEM. | | | B |
| DL | | SOLAR DATA LOGGER TO BE THE SAME MODEL AS USED ON BUILDING CHA03. | | | B |
| GSD | | SOLAR GENERATION SIGNALLING DEVICE. | | | B |
| SECURITY EQUIPMENT | | SECURITY EQUIPMENT TO BE PROVIDED BY THE SECURITY CONTRACTOR. PROVIDE AN INTERFACE TO THE SECURITY SYSTEM SUCH THAT THE INTERNAL LIGHTS ARE CONTROLLED VIA A DRY CONTACT FROM THE SECURITY SYSTEM SO THE INTERNAL LIGHTS ARE AUTOMATICALLY TURNED OFF / DISABLED WHEN THE SECURITY SYSTEM IS ARMED. | | | B |
| COMMUNICATIONS RACK CR-4 | | EXISTING COMMUNICATIONS RACK TO BE USED TO ACCOMMODATE THE NEW FIBRE CABLE. UPGRADE THE FIBER AS REQUIRED. | | | A |
| COMMUNICATIONS RACK CR-12 | | PROVIDE CR-12 AS A FREE STANDING 41 RU MINIMUM 800 DEEP COMMUNICATIONS CONNECTED TO CR-1 VIA AN UNDERGROUND LOOSE TUBE GEL FILLED 12 CORE OS2 OPTICAL FIBRE CABLES FULLY TERMINATED WITH LC CONNECTORS. PROVIDE CR-12 WITH A FIBER AND ALL NECESSARY PATCH PANELS TO ACCOMMODATE THE COMMUNICATIONS OUTLETS, CCTV POINTS AND VAPOR POINTS. PROVIDE CR-12 WITH, CASTERS, TWO RACK MOUNTED SHELVES, CABLE MANAGEMENT AND TWO 10 PORT POWER RAILS. PROVIDE ALL OF THE CABLE CONNECTED TO CR-12 WITH SUFFICIENT LENGTH TO ALLOW THE RACK TO BE MOVED 1000 OUT FROM THE CUPBOARD. PROVIDE THE RACK WITH TWO NO AUSTRALIAN MONITOR HS2250P 2 X 250W AMPLIFIERS MOUNTED AT THE TOP OF THE RACK. CONNECT ONE OF THE AMPLIFIER CHANNELS TO THE INTERNAL PUBLIC ADDRESS SPEAKERS, ONE OF THE AMPLIFIER CHANNELS TO THE GROUND LEVEL PUBLIC ADDRESS SPEAKERS, AONE OF THE AMPLIFIER CHANNELS TO THE EXTERNAL PUBLIC ADDRESS SPEAKER WITH THE FINAL CHANNEL SPARE. PROVIDE THE TOP OF THE RACK WITH FOUR TEMPERATURE CONTROLLED FANS. | | | B |
| COMMUNICATIONS OUTLET | | RJ45 CAT-6 COMMUNICATIONS OUTLET, CABLED BACK TO A CAT 6 PATCH PANEL IN COMMUNICATIONS RACK CR-12 VIA BLUE 4-PAIR CAT-6 UTP CABLE. MOUNT UP TO 3 RJ45 OUTLETS PER MULTI-GANG FACEPLATE WITH SEPARATE PERMANENT LABELLING FOR EACH OUTLET. MOUNT AT 300 AFFL U.N.O | WHITE | CLIPSAL C2000 SERIES | B |



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ELECTRICAL EQUIPMENT SCHEDULE

REVISION C - 16 FEBRUARY 2026

THE EQUIPMENT SUPPLIER CONTACT DETAILS MAY BE AVAILABLE ON THE EDG WEBSITE VIA THE FOLLOWING LINK
www.edg.net.au/links.html

| TYPE | LAMPS | DESCRIPTION | COLOUR / ACCESSORY | CATALOGUE No | REV |
|---|-------|--|--------------------|----------------------|-----|
| CAT 6A STP COMMUNICATIONS OUTLET | | RJ45 CAT-6A STP COMMUNICATIONS OUTLET, CABLED BACK TO A CAT 6 PATCH PANEL IN COMMUNICATIONS RACK CR-12 VIA A BLUE 4-PAIR CAT-6A STP CABLE. MOUNT UP TO 3 RJ45 OUTLETS PER MULTI-GANG FACEPLATE WITH SEPARATE PERMANENT LABELLING FOR EACH OUTLET. MOUNT AT 300 AFFL U.N.O | WHITE | CLIPSAL C2000 SERIES | A |
| CAT 6A STP COMMUNICATIONS OUTLET (SM) SURFACE MOUNTED | | RJ45 CAT-6A STP COMMUNICATIONS OUTLET MOUNTED ON A SURFACE MOUNTED MOUNTING BLOCK, CABLED BACK TO A CAT 6 PATCH PANEL IN COMMUNICATIONS RACK CR-12 VIA A BLUE 4-PAIR CAT-6A STP CABLE. MOUNT UP TO 3 RJ45 OUTLETS PER MULTI-GANG FACEPLATE WITH SEPARATE PERMANENT LABELLING FOR EACH OUTLET. | WHITE | CLIPSAL C2000 SERIES | B |
| CCTV POINT (C1) | | CEILING MOUNTED RJ45 CAT-6 COMMUNICATIONS PLUG, CABLED BACK TO A DEDICATED CCTV CAT 6 PATCH PANEL IN COMMUNICATIONS RACK CR-12 VIA YELLOW 4-PAIR CAT-6 UTP CABLE. PROVIDE THE PLUG SUCH THAT IT PROTRUDES OUT 150MM FROM A FLUSH CONDUIT TO ALLOW THE CAMERA TO BE INSTALLED OVER THE CONDUIT WITH THE PLUG DIRECTLY CONNECTED INTO THE CONCEALED REAR OF THE CAMERA. | | | C |
| CCTV POINT (C2) | | WALL MOUNTED RJ45 CAT-6 COMMUNICATIONS PLUG, CABLED BACK TO A DEDICATED CCTV CAT 6 PATCH PANEL IN COMMUNICATIONS RACK CR-12 VIA YELLOW 4-PAIR CAT-6 UTP CABLE. PROVIDE THE PLUG SUCH THAT IT PROTRUDES OUT 150MM FROM A FLUSH CONDUIT TO ALLOW THE CAMERA TO BE INSTALLED OVER THE CONDUIT WITH THE PLUG DIRECTLY CONNECTED INTO THE CONCEALED REAR OF THE CAMERA. | | | C |
| VAPE POINT | | RJ45 CAT-6 COMMUNICATIONS PLUG, CABLED BACK TO A DEDICATED CCTV CAT 6 PATCH PANEL IN COMMUNICATIONS RACK CR-12 VIA PURPLE 4-PAIR CAT-6 UTP CABLE. PROVIDE THE PLUG SUCH THAT IT PROTRUDES OUT 150MM FROM A FLUSH CONDUIT TO ALLOW THE VAPE SENSOR TO BE INSTALLED OVER THE CONDUIT WITH THE PLUG DIRECTLY CONNECTED INTO THE CONCEALED REAR OF THE SENSOR. | | | B |
| ACCESS CONTROL ELECTRIC STRIKE (ES1) | | CONNECT THE ELECTRIC STRIKE PROVIDED AS PART OF THE DOOR FRAME TO THE SECURITY EQUIPMENT WITH CONCEALED BELDEN 9536 060500 AND 1.5MM FIG 8 CABLES THAT ARE LESS THAN 25M IN LENGTH. THE CABLE IS TO BE LABELLED AT THE SECURITY EQUIPMENT END WITH THE DOOR NUMBER AND BE COILED IN THE CEILING SPACE ABOVE THE SECURITY EQUIPMENT WITH 4M OF SPARE CABLE LENGTH FOR CONNECTION TO THE SECURITY EQUIPMENT BY OTHERS. | | | C |
| ACCESS CONTROL ELECTRIC STRIKE (ES2) | | CONNECT THE ELECTRIC STRIKE / POWER TRANSFER HING PROVIDED AS PART OF THE DOOR FRAME TO THE SECURITY EQUIPMENT WITH CONCEALED BELDEN 9536 060500 AND 1.5MM FIG 8 CABLES THAT ARE LESS THAN 25M IN LENGTH. THE CABLE IS TO BE LABELLED AT THE SECURITY EQUIPMENT END WITH THE DOOR NUMBER AND BE COILED IN THE CEILING SPACE ABOVE THE SECURITY EQUIPMENT WITH 4M OF SPARE CABLE LENGTH FOR CONNECTION TO THE SECURITY EQUIPMENT BY OTHERS. | | | C |



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ELECTRICAL EQUIPMENT SCHEDULE

REVISION C - 16 FEBRUARY 2026

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| TYPE | LAMPS | DESCRIPTION | COLOUR / ACCESSORY | CATALOGUE No | REV |
|-----------------------------------|-------|---|--------------------|--|-----|
| ACCESS CONTROL CARD READER (CR) | | PROVIDE A BELDEN 9536 060500 CABLE RUN CONCEALED FROM THE FUTURE WALL MOUNTED CARD READER POSITION AT 1000 AFFL TO THE SECURITY EQUIPMENT. THE CABLE IS TO BE LABELLED AT THE SECURITY EQUIPMENT END WITH THE DOOR NUMBER AND BE COILED IN THE CEILING SPACE ABOVE THE SECURITY EQUIPMENT WITH 4M OF SPARE CABLE LENGTH FOR CONNECTION TO THE SECURITY EQUIPMENT BY OTHERS. PROVIDE THE CABLE AT THE CARD READER POSITION SUCH THAT IT PROTRUDES OUT 150MM FROM A FLUSH CONDUIT IN THE WALL CENTRED AT 1000AFFL TO ALLOW THE CARD READER TO BE INSTALLED OVER THE CONDUIT WITH THE CABLE DIRECTLY CONNECTED INTO THE CONCEALED REAR OF THE CARD READER BY OTHERS. | | | C |
| INTRUDER DETECTOR SENSOR | | PROVIDE A BELDEN 9536 060500 CABLE RUN CONCEALED FROM THE FUTURE CEILING MOUNTED SECURITY INTRUDER DETECTOR TO THE SECURITY EQUIPMENT. THE CABLE IS TO BE UNIQUELY LABELLED AT BOTH ENDS AND BE COILED IN THE CEILING SPACE ABOVE THE SECURITY EQUIPMENT WITH 4M OF SPARE CABLE LENGTH FOR CONNECTION TO THE SECURITY EQUIPMENT BY OTHERS. PROVIDE THE CABLE AT THE DETECTOR POSITION SUCH THAT IT PROTRUDES OUT 150MM FROM A FLUSH CONDUIT IN THE CEILING TO ALLOW THE DETECTOR TO BE INSTALLED OVER THE CONDUIT WITH THE CABLE DIRECTLY CONNECTED INTO THE CONCEALED REAR OF THE DETECTOR BY OTHERS. | | | B |
| REED SWITCH | | PROVIDE A 1.5MM FIG 8 CABLE RUN CONCEALED FROM THE FUTURE CONCEALED DOOR HEAD SECURITY REED SWITCH TO THE SECURITY EQUIPMENT. THE CABLE IS TO BE UNIQUELY LABELLED AT BOTH ENDS AND BE COILED IN THE CEILING SPACE ABOVE THE SECURITY EQUIPMENT WITH 4M OF SPARE CABLE LENGTH FOR CONNECTION TO THE SECURITY EQUIPMENT BY OTHERS. PROVIDE THE CABLE AT THE REED SWITCH POSITION SUCH THAT IT PROTRUDES OUT 150MM FROM A FLUSH 20MM DIA CONDUIT IN THE DOOR HEAD TO ALLOW THE REED SWITCH TO BE INSTALLED OVER THE CONDUIT WITH THE CABLE DIRECTLY CONNECTED INTO THE CONCEALED REAR OF THE REED SWITCH BY OTHERS. | | | B |
| SECURITY PIEZO | | PROVIDE A 1.5MM FIG 8 CABLE RUN CONCEALED FROM THE FUTURE CEILING MOUNTED SECURITY PIEZO SIREN TO THE SECURITY EQUIPMENT. THE CABLE IS TO BE UNIQUELY LABELLED AT BOTH ENDS AND BE COILED IN THE CEILING SPACE ABOVE THE SECURITY EQUIPMENT WITH 4M OF SPARE CABLE LENGTH FOR CONNECTION TO THE SECURITY EQUIPMENT BY OTHERS. PROVIDE THE CABLE AT THE SIREN POSITION SUCH THAT IT PROTRUDES OUT 150MM FROM A FLUSH CONDUIT IN THE CEILING TO ALLOW THE SIREN TO BE INSTALLED OVER THE CONDUIT WITH THE CABLE DIRECTLY CONNECTED INTO THE CONCEALED REAR OF THE SIREN BY OTHERS. | | | B |
| PA SYSTEM RECESSED SPEAKER | | 15W CEILING RECESSED MULTI TAP 100V 8 OHM PUBLIC ADDRESS DUAL CONE SPEAKER CABLED BACK TO THE ASSOCIATED AMPLIFIER WITHIN THE COMMUNICATIONS RACK VIA 1.5MM MARKED FIG 8 CABLE. | WHITE | AUSTRALIAN MONITOR QF8CS | B |
| PA SYSTEM SURFACE MOUNTED SPEAKER | | 15W RECESSED MULTI TAP 100V 8 OHM PUBLIC ADDRESS DUAL CONE SPEAKER MOUNTED INTO A SURFACE MOUNTED MOUNTING KIT CABLED BACK TO THE ASSOCIATED AMPLIFIER WITHIN THE COMMUNICATIONS RACK VIA 1.5MM MARKED FIG 8 CABLE. | WHITE | AUSTRALIAN MONITOR QF8CS PLUS SURFACE MOUNTING KIT | B |
| PA SYSTEM HORN | | 30W SURFACE MOUNTED ADJUSTABLE IP66 MULTI TAP 100V 8 OHM PUBLIC ADDRESS HORN SPEAKER CABLED BACK TO THE ASSOCIATED AMPLIFIER WITHIN THE COMMUNICATIONS RACK VIA 1.5MM MARKED FIG 8 CABLE. | WHITE | AUSTRALIAN MONITOR SH30 | B |



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ELECTRICAL EQUIPMENT SCHEDULE

REVISION C - 16 FEBRUARY 2026

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| TYPE | LAMPS | DESCRIPTION | COLOUR / ACCESSORY | CATALOGUE No | REV |
|----------------------------|-------|--|--------------------|--------------|-----|
| PIT 1 | | EXISTING POWER PIT UNDER THE MAIN SWITCHBOARD TO REMAIN AS IS AND BE UTILISED TO ACCOMMODATE THE NEW SUBMAIN. | | | A |
| PIT 2 | | EXISTING POWER AND COMMUNICATIONS PITS TO REMAIN AS IS AND BE UTILISED TO ACCOMMODATE THE NEW SUBMAIN / FIBRE CABLE. | | | A |
| PIT 3 | | PROVIDE PIT 3 AS A 1200 X 1200 X 1000 DEEP MIN POWER PIT AND A 1200 X 1200 X 900 DEEP MIN COMMUNICATIONS PIT EACH WITH A CLASS C INFILL LID C/W PROPRIETARY PRECAST CONCRETE LID SURROUND, PRECAST OR PVC CONCRETE PIT AND RISERS AS REQUIRED. POLLY CRETE / FIBRE PITS ARE NOT ACCEPTABLE. ENSURE THE TOP OF THE PIT IS FLUSH WITH THE FINAL SURROUNDING LEVELS. STAMP / TAG THE COMMUNICATIONS PIT LID WITH THE WORD "COMMUNICATIONS" AND THE POWER PIT LID WITH THE WORD "ELECTRICITY" DRAIN THE PITS TO STORM WATER AND PROVIDE THE PIT WITH A WEEP HOLE IN THE BASE INTO A GRAVEL SOAKAGE PIT. PROVIDE DETAILS OF THE PITS AND LIDS FOR APPROVAL PRIOR TO ORDERING. PROVIDE A 150 WIDE X 150 DEEP MIN SURROUND AROUND THE TOP OF EACH PIT WITH A 10MM FALL AWAY FROM THE PIT LID. PROVIDE PHOTOS OF THE COMPLETED PITS INSTALLATION SHOWING ALL CONDUITS AND CABLING. MARK UP THE PHOTOS WITH THE SIZE AND DESTINATION OF EACH CONDUIT. | | | B |
| PIT 4 | | PROVIDE PIT 4 AS A 450 X 450 X 800 DEEP MIN POWER PIT AND A 450 X 450 X 600 DEEP MIN COMMUNICATIONS PIT EACH WITH A CLASS C INFILL LID C/W PROPRIETARY PRECAST CONCRETE LID SURROUND, PRECAST OR PVC CONCRETE PIT AND RISERS AS REQUIRED. POLLY CRETE / FIBRE PITS ARE NOT ACCEPTABLE. ENSURE THE TOP OF THE PIT IS FLUSH WITH THE FINAL SURROUNDING LEVELS. STAMP / TAG THE COMMUNICATIONS PIT LID WITH THE WORD "COMMUNICATIONS" AND THE POWER PIT LID WITH THE WORD "ELECTRICITY" DRAIN THE PITS TO STORM WATER AND PROVIDE THE PIT WITH A WEEP HOLE IN THE BASE INTO A GRAVEL SOAKAGE PIT. PROVIDE DETAILS OF THE PITS AND LIDS FOR APPROVAL PRIOR TO ORDERING. PROVIDE A 150 WIDE X 150 DEEP MIN SURROUND AROUND THE TOP OF EACH PIT WITH A 10MM FALL AWAY FROM THE PIT LID. PROVIDE PHOTOS OF THE COMPLETED PITS INSTALLATION SHOWING ALL CONDUITS AND CABLING. MARK UP THE PHOTOS WITH THE SIZE AND DESTINATION OF EACH CONDUIT. | | | B |
| CONDUIT C1 | | EXISTING POWER AND COMMUNICATIONS CONDUITS TO REMAIN AS IS AND BE UTILISED TO ACCOMMODATE THE NEW SUBMAINS / FIBRE CABLE. | | | A |
| CONDUIT C2 | | PROVIDE 6 X 100 DIA POWER CONDUITS UNDERGROUND FROM THE POWER PIT 2 TO POWER PIT 3 AND 4 X 50 DIA COMMUNICATIONS CONDUITS UNDERGROUND FROM THE COMMUNICATIONS PIT 2 TO THE COMMUNICATIONS PIT 3. POSITION THE POWER CONDUITS SUCH THAT THEY HAVE 50MM BETWEEN EACH CONDUIT. PROVIDE PHOTOS OF THE CONDUITS IN PLACE PARTIALLY COVERED BY BEDDING SAND PRIOR TO BACK FILLING FOR APPROVAL. | | | A |
| CONDUIT C3 | | PROVIDE 4 X 100 DIA POWER CONDUITS UNDERGROUND FROM THE POWER PIT 3 AND 4 X 50 DIA COMMUNICATIONS CONDUITS UNDERGROUND TO THE COMMUNICATIONS PIT 3 TO THE ELECTRICAL RISER. POSITION THE POWER CONDUITS SUCH THAT THEY HAVE 50MM BETWEEN EACH CONDUIT. PROVIDE PHOTOS OF THE CONDUITS IN PLACE PARTIALLY COVERED BY BEDDING SAND PRIOR TO BACK FILLING FOR APPROVAL. | | | B |
| CONDUIT C4 | | PROVIDE 2 X 100 DIA POWER CONDUITS UNDERGROUND FROM ELECTRICAL RISER TO POWER PIT 4 AND 2 X 50 DIA COMMUNICATIONS CONDUITS UNDERGROUND FROM THE ELECTRICAL RISER TO THE COMMUNICATIONS PIT 4. POSITION THE POWER CONDUITS SUCH THAT THEY HAVE 50MM BETWEEN EACH CONDUIT. PROVIDE PHOTOS OF THE CONDUITS IN PLACE PARTIALLY COVERED BY BEDDING SAND PRIOR TO BACK FILLING FOR APPROVAL. | | | B |
| FIRE INDICATOR PANEL (FIP) | | AS 1670 COMPLAINT FIRE INDICATOR PANEL INCORPORATING THE EWCIE AND FDCIE THE FIP IS TO BE THE SAME BRAND AS THAT USED IN THE ADJACENT CHA10 BUILDING. | | | B |



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ELECTRICAL EQUIPMENT SCHEDULE

REVISION C - 16 FEBRUARY 2026

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| TYPE | LAMPS | DESCRIPTION | COLOUR / ACCESSORY | CATALOGUE No | REV |
|--|-------|--|--------------------|--------------|-----|
| FIRE EVACUATION HORN | | SURFACE MOUNTED TWO-TONE 30W ALERT AND EVACUATION HORN SPEAKER TO AS1670.1 C/W 100V MULTI-TAP TRANSFORMER. MOUNT AT HIGH LEVEL. | | | A |
| FIRE EVACUATION RECESSED SPEAKER | | RECESSED 5W TWO-TONE 8-INCH CONE ALERT AND EVACUATION SPEAKER TO AS1670.1 C/W 100V MULTI-TAP TRANSFORMER AND FLUSH GRILLE PAINTED OUT TO MATCH THE CEILING. | | | A |
| FIRE EVACUATION SURFACE SPEAKER | | SURFACE MOUNT 5W TWO-TONE 8-INCH CONE ALERT AND EVACUATION SPEAKER TO AS1670.1 C/W 100V MULTI-TAP TRANSFORMER AND GRILLE PAINTED OUT TO MATCH THE CEILING. | | | A |
| SMOKE DETECTOR | | SURFACE MOUNTED WHITE AS7240.7 POINT SMOKE DETECTORS WITH A PERFORMANCE OF 6 TO 12 % OBS/M SET AT 7.8 %. | | | A |
| CONCEALED SPACE SMOKE DETECTOR | | CONCEALED SPACE ADDRESSABLE AS7240.7 POINT SMOKE DETECTORS WITH A PERFORMANCE OF 6 TO 12 % OBS/M SET AT 7.8 %. PROVIDE THE DETECTOR WITH A WHITE REMOTE INDICATOR AND ACCESS BRACKET AS REQUIRED. | | | A |
| THERMAL DETECTOR | | SURFACE MOUNTED WHITE AS7240.5:2018 TYPE B SEALED FIXED TEMPERATURE ADDRESSABLE THERMAL DETECTOR WHITE. | | | A |
| FIRE ALARM STROBE | | WALL MOUNTED FIRE ALARM STROBE LIGHT AS PER AS1670.1 | | | A |
| PV SYSTEM INVERTER (INV) | | PROVIDE A SUNGROW SC110CX-P2 INVERTER CONTROLLED BY THE SITES EXISTING GRID PROTECTION SYSTEM. PROVIDE THE INVERTER WITH INTERNET ACCESS VIA THE SCHOOLS IT NETWORK. | | | B |
| PV SOLAR PANELS | | PROVIDE THE PV PANELS AS TRINA TSM-510NE18R.28 9510W) PANELS | | | B |
| TEMPERATURE CONTROLLED EXHAUST FAN (TEF) | | PROVIDE A TEMPERATURE CONTROLLED EXHAUST FAN WITHIN THE CEILING OF THE ELECTRICAL CUPBOARD TO EXHAUST THE CUPBOARD INTO THE CEILING SPACE. THE FAN IS TO BE RATED FOR 100,000 HOURS OF USE, EXHAUST AT LEAST 100L PER SECOND, BE CONNECTED BY A FLEX AND PLUG, BE VARIABLE SPEED DEPENDANT UPON THE TEMPERATURE AND CONFIGURED TO COMMENCE OPERATION WHEN THE CUPBOARD TEMPERATURE REACHES 25 DEG. ENSURE THE FAN CAN NOT BE HEARD FROM A POSITION 2M IN FRONT OF THE CUPBOARD. PROVIDE DETAILS OF THE FAN FOR APPROVAL PRIOR TO ORDERING. | | | B |



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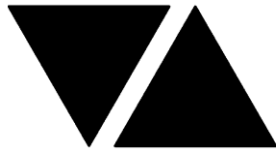
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DISTRIBUTION BOARD DB-12P

REVISION B - 16 FEBRUARY 2026

| | | | | | | | REV |
|---|----|---------------------------|----------------------|-----------------------------------|-----------------|--------------------|--------------------------------------|
| FAULT CURRENT: | | | 6KA | MAIN SWITCH: | | | 250A NON AUTO LOAD BREAK ISOLATOR |
| CHASSIS SIZE: | | | 96 POLE | SUPPLIED FROM: | | | DB-12 |
| CHASSIS RATING: | | | 250A | SUPPLY CABLE: | | | 4C50 |
| PHASES: | | | 3 | | | | |
| PROVIDE THE DB WITH A FULL WIDTH EMPTY DIN RAIL TO ACCOMMODATE FUTURE CONTACTORS AND CONTROLS. ACCURATELY LABEL EACH CIRCUIT BREAKER WITH THE USE AND THE POSITION. | | | | | | | A |
| CIRC | PH | CIRCUIT BREAKER (amps) | CONTROL EQUIPMENT | CABLE SIZE (mm ²) | LOCATION | CIRCUIT USE | |
| P1 | 1 | 20 | RCBO | 2.5 | ROOF | EXTERNAL GPO | A |
| P2 | 1 | 20 | RCBO | 2.5 | GROUND | UNDERCROFT GPO | A |
| P3 | 1 | 20 | RCBO | 2.5 | GROUND | UNDERCROFT GPO | A |
| P4 | 1 | 20 | RCBO | 2.5 | GROUND | HAND DRYER | A |
| P5 | 1 | 20 | RCBO | 2.5 | GROUND | HAND DRYER | A |
| P6 | 1 | 20 | RCBO | 2.5 | GROUND | HAND DRYER | A |
| P7 | 1 | 20 | RCBO | 2.5 | GROUND | DRINK FOUNTAIN | A |
| P8 | 1 | 20 | RCBO | 2.5 | LEVEL 1 | DRINK FOUNTAIN | A |
| P9 | 1 | 20 | RCBO | 2.5 | LEVEL 1 | HAND DRYER | A |
| P10 | 1 | 20 | RCBO | 2.5 | LEVEL 1 | HAND DRYER | A |
| P11 | 1 | 20 | RCBO | 2.5 | LEVEL 1 | HAND DRYER | A |
| P12 | 1 | 20 | RCBO | 2.5 | LEVEL 1 | CLEANER | A |
| P13 | 1 | 20 | RCBO | 2.5 | LEVEL 1 | MEETING ROOMS GPOS | A |
| P14 | 1 | 20 | RCBO | 2.5 | LEVEL 1 | ART GPOS | A |
| P15 | 1 | 20 | RCBO | 2.5 | LEVEL 1 | FIP | A |
| P16 | 1 | 20 | RCBO | 2.5 | LEVEL 1 | GLA 1 GPOS | A |
| P17 | 1 | 20 | RCBO | 2.5 | LEVEL 1 | GLA 2 GPOS | A |
| P18 | 1 | 20 | RCBO | 2.5 | LEVEL 1 | GLA 3 GPOS | A |
| P19 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | DRINK FOUNTAIN | A |
| P20 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | HAND DRYER | A |
| P21 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | HAND DRYER | A |
| P22 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | HAND DRYER | A |
| P23 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | HAND DRYER | A |
| P24 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | SECURITY | A |
| P25 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | CR-12 | A |
| P26 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | COMMON GPOS | A |
| P27 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | GLA 1 GPOS | A |
| P28 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | GLA 2 GPOS | A |
| P29 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | GLA 3 GPOS | A |
| P30 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | MEETING ROOMS GPOS | A |
| P31 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | MEETING ROOMS GPOS | A |
| P32 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | STAFF KITCHEN GPOS | A |
| P33 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | STAFF ROOM GPOS | A |
| P34 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | REFRIGERATOR | A |
| P35 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | STAFF ROOM GPOS | A |
| P36 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | STAFF ROOM GPOS | A |
| P37 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | WORKSTATION | A |
| P38 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | WORKSTATION | A |
| P39 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | WORKSTATION | A |
| P40 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | WORKSTATION | A |
| P41 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | WORKSTATION | A |
| P42 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | WORKSTATION | A |
| P43 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | WORKSTATION | A |
| P44 | 3 | 20 | RCBO | 2.5 | LEVEL 2 | 3 X 3.6KW HWS | A |
| P45 | 1 | 20 | RCBO | 2.5 | RISER CUPBOARDS | EXHAUST FANS | A |
| P46 | 1 | 32 | RCBO | 6.0 | GROUND | 7KW HWS | B |
| P47 | 1 | 32 | RCBO | 6.0 | LEVEL 1 | 7KW HWS | B |
| P48 | 1 | 32 | RCBO | 6.0 | LEVEL 2 | 7KW HWS | B |
| P49 | 1 | 20 | RCBO | 2.5 | LEVEL 2 | AUTOBOILER | B |



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DISTRIBUTION BOARD DB-12L

REVISION A - 26 JANUARY 2026

| | | | | | | | REV |
|---|----|------------------------|--|--------------------------------|----------|-----------------------|-----|
| FAULT CURRENT: 6KA | | | | | | | A |
| MAIN SWITCH: 250A NON AUTO LOAD BREAK ISOLATOR | | | | | | | A |
| CHASSIS SIZE: 60 POLE | | | | | | | A |
| SUPPLIED FROM: DB-12 | | | | | | | A |
| CHASSIS RATING: 250A | | | | | | | A |
| SUPPLY CABLE: 4C25 | | | | | | | A |
| PHASES: 3 | | | | | | | A |
| PROVIDE THE DB WITH A FULL WIDTH EMPTY DIN RAIL TO ACCOMMODATE FUTURE CONTACTORS AND CONTROLS. ACCURATELY LABEL EACH CIRCUIT BREAKER WITH THE USE AND THE POSITION. PROVIDE THE DB WITH AN AS2293 EMERGENCY LIGHT TESTING FACILITY AND SURGE PROTECTION. REFER TO THE NOTES FOR ADDITIONAL CONSTRUCTION REQUIREMENTS. | | | | | | | A |
| CIRC | PH | CIRCUIT BREAKER (amps) | CONTROL EQUIPMENT | CABLE SIZE (mm ²) | LOCATION | CIRCUIT USE | |
| 1 | 1 | 20 | RCBO PE ON DUSK OFF DAWN | 2.5 | EXTERNAL | SECURITY LIGHTS | A |
| 2 | 1 | 20 | RCBO PE ON DUSK TC OFF 10.00PM | 2.5 | EXTERNAL | LIGHTING | A |
| 3 | 1 | 20 | RCBO PE ON DUSK OFF DAWN | 2.5 | EXTERNAL | LIGHTING | A |
| 4 | 1 | 20 | RCBO PE ON DUSK TC OFF 10.00PM | 2.5 | EXTERNAL | LIGHTING | A |
| 5 | 1 | 20 | RCBO PE ON DUSK TC OFF 10.00PM | 2.5 | EXTERNAL | LIGHTING | A |
| 6 | 1 | 20 | RCBO | 2.5 | GROUND | COVERED AREA LIGHTING | A |
| 7 | 1 | 20 | RCBO | 2.5 | GROUND | COVERED AREA LIGHTING | A |
| 8 | 1 | 20 | RCBO | 2.5 | GROUND | AMENITY LIGHTING | A |
| 9 | 1 | 20 | RCBO | 2.5 | GROUND | AMENITY LIGHTING | A |
| 10 | 1 | 20 | RCBO INTERFACED TO THE SECURITY SYSTEM | 2.5 | LEVEL 1 | AMENITY LIGHTING | A |
| 11 | 1 | 20 | RCBO INTERFACED TO THE SECURITY SYSTEM | 2.5 | LEVEL 1 | AMENITY LIGHTING | A |
| 12 | 1 | 20 | RCBO INTERFACED TO THE SECURITY SYSTEM | 2.5 | LEVEL 1 | COMMON LIGHTS | A |
| 13 | 1 | 20 | RCBO INTERFACED TO THE SECURITY SYSTEM | 2.5 | LEVEL 1 | COMMON LIGHTS | A |
| 14 | 1 | 20 | RCBO INTERFACED TO THE SECURITY SYSTEM | 2.5 | LEVEL 1 | GLA 1 LIGHTING | A |
| 15 | 1 | 20 | RCBO INTERFACED TO THE SECURITY SYSTEM | 2.5 | LEVEL 1 | GLA 2 LIGHTING | A |
| 16 | 1 | 20 | RCBO INTERFACED TO THE SECURITY SYSTEM | 2.5 | LEVEL 1 | GLA 3 LIGHTING | A |



ELECTRICAL DESIGN GROUP

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C3474a - KINGS CHRISTIAN COLLEGE - CHAMBERS FLAT, SENIOR SCHOOL CHA12

C3474a-0005(A).xls

DISTRIBUTION BOARD DB-12L

REVISION A - 26 JANUARY 2026

| <div> <div>FAULT CURRENT: 6KA</div> <div>CHASSIS SIZE: 60 POLE</div> <div>CHASSIS RATING: 250A</div> <div>PHASES: 3</div> </div> <div> <div>MAIN SWITCH: 250A NON AUTO LOAD BREAK ISOLATOR</div> <div>SUPPLIED FROM: DB-12</div> <div>SUPPLY CABLE: 4C25</div> </div> | | | | | | | REV |
|---|----|------------------------|--|--------------------------------|----------|------------------|-----|
| | | | | | | | A |
| | | | | | | | A |
| | | | | | | | A |
| | | | | | | | A |
| PROVIDE THE DB WITH A FULL WIDTH EMPTY DIN RAIL TO ACCOMMODATE FUTURE CONTACTORS AND CONTROLS. ACCURATELY LABEL EACH CIRCUIT BREAKER WITH THE USE AND THE POSITION. PROVIDE THE DB WITH AN AS2293 EMERGENCY LIGHT TESTING FACILITY AND SURGE PROTECTION. REFER TO THE NOTES FOR ADDITIONAL CONSTRUCTION REQUIREMENTS. | | | | | | | A |
| CIRC | PH | CIRCUIT BREAKER (amps) | CONTROL EQUIPMENT | CABLE SIZE (mm ²) | LOCATION | CIRCUIT USE | |
| 17 | 1 | 20 | RCBO INTERFACED TO THE SECURITY SYSTEM | 2.5 | LEVEL 1 | ART LIGHTS | A |
| 18 | 1 | 20 | RCBO INTERFACED TO THE SECURITY SYSTEM | 2.5 | LEVEL 1 | ART LIGHTS | A |
| 19 | 1 | 20 | RCBO INTERFACED TO THE SECURITY SYSTEM | 2.5 | LEVEL 2 | AMENITY LIGHTING | A |
| 20 | 1 | 20 | RCBO INTERFACED TO THE SECURITY SYSTEM | 2.5 | LEVEL 2 | AMENITY LIGHTING | A |
| 21 | 1 | 20 | RCBO INTERFACED TO THE SECURITY SYSTEM | 2.5 | LEVEL 2 | STUDY LIGHTS | A |
| 22 | 1 | 20 | RCBO INTERFACED TO THE SECURITY SYSTEM | 2.5 | LEVEL 2 | STUDY LIGHTS | A |
| 23 | 1 | 20 | RCBO INTERFACED TO THE SECURITY SYSTEM | 2.5 | LEVEL 2 | STUDY LIGHTS | A |
| 24 | 1 | 20 | RCBO INTERFACED TO THE SECURITY SYSTEM | 2.5 | LEVEL 2 | STUDY LIGHTS | A |
| 25 | 1 | 20 | RCBO INTERFACED TO THE SECURITY SYSTEM | 2.5 | LEVEL 2 | GLA 1 LIGHTING | A |
| 26 | 1 | 20 | RCBO INTERFACED TO THE SECURITY SYSTEM | 2.5 | LEVEL 2 | GLA 2 LIGHTING | A |
| 27 | 1 | 20 | RCBO INTERFACED TO THE SECURITY SYSTEM | 2.5 | LEVEL 2 | GLA 3 LIGHTING | A |
| 28 | 1 | 20 | RCBO INTERFACED TO THE SECURITY SYSTEM | 2.5 | LEVEL 2 | MEETING LIGHTS | A |
| 29 | 1 | 20 | RCBO INTERFACED TO THE SECURITY SYSTEM | 2.5 | LEVEL 2 | STAFF LIGHTS | A |
| | | | | | | | |

LEGEND

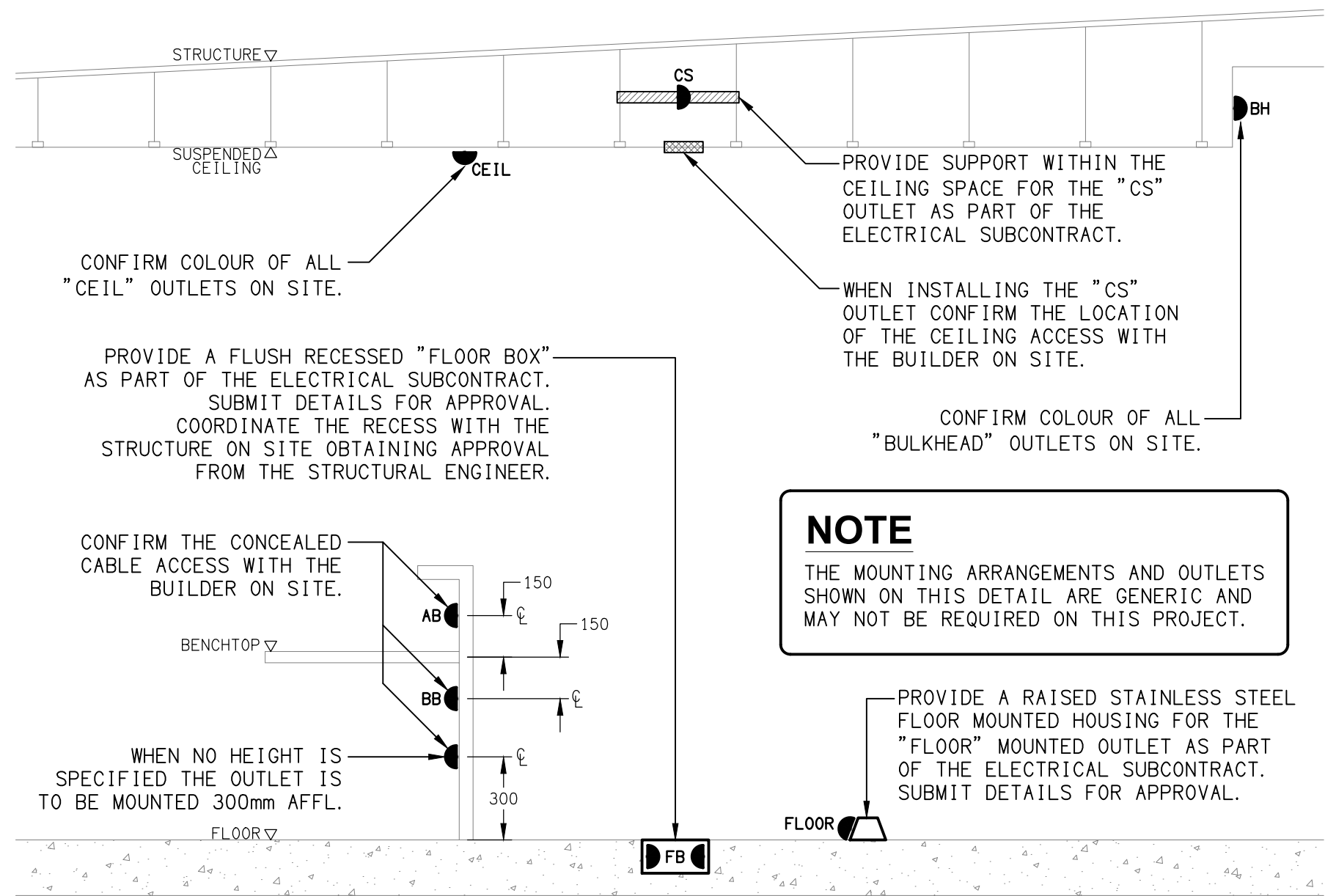
| | |
|--|---|
| | ELECTRICAL SERVICES SWITCHBOARD. |
| | SWITCHBOARD / CONTROL PANEL NOT PROVIDED AS PART OF THE ELECTRICAL SUBCONTRACT. |
| | SINGLE POWER OUTLET. |
| | DOUBLE POWER OUTLET. |
| | SPECIAL PURPOSE POWER OUTLET. |
| | SINGLE PHASE ISOLATOR. |
| | THREE PHASE ISOLATOR. |
| | JUNCTION BOX AS NOTED. |
| | ELECTRICAL CABLE TRAY, TYPE AS NOTED. |
| | WORKSTATION OUTLETS. |
| | CONDUIT ROUTE. |
| | x DENOTES CONDUIT TYPE. |
| | ELECTRICAL PIT, TYPE AS NOTED. |
| | HAND DRYER CONNECTION. |
| | LIGHTING PRESENCE DETECTOR SWITCH. |
| | ONE-WAY LIGHT SWITCH. |
| | TWO-WAY LIGHT SWITCH. |
| | LIGHTING SWITCHPANEL, TYPE x. |
| | CIRCUIT LINE. |
| | SWITCH LINE. |
| | POWER CIRCUIT DESIGNATION. DENOTES DB AND CIRCUIT. |
| | ELECTRICAL EQUIPMENT AS NOTED. |
| | FITTING TO BE SURFACE MOUNTED. |
| | OUTLET MOUNTED WITHIN RECESS KIT. |
| | CAT-6 UTP RJ45 COMMUNICATIONS OUTLET. |
| | CAT-6A STP RJ45 COMMUNICATIONS OUTLET. |
| | CAT-6 CCTV RJ45 PLUG, TYPE x. |
| | CAT-6 VAPE RJ45 PLUG. |
| | ELECTRIC STRIKE CABLED CONNECTION, TYPE x. |
| | ACCESS CONTROL CARD READER CABLE. |
| | INTRUDER DETECTION REED SWITCH CABLE. |
| | INTRUDER DETECTION SENSOR CABLE. |
| | INTRUDER DETECTION PIZEO SIREN CABLE. |
| | TEMPERATURE CONTROLLED EXHAUST FAN. |

LEGEND

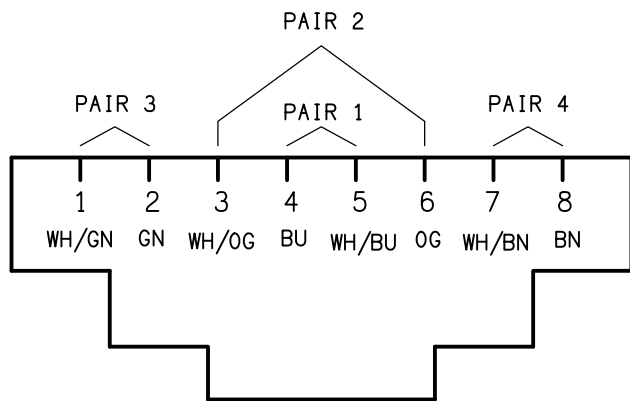
| | |
|--|---|
| | E1: RECESSED LED EMERGENCY LIGHT, WHITE. |
| | E2: CUSTOM SURFACE CAN MOUNTED LED EMERGENCY LIGHT, BLACK. |
| | E3: RECESSED LED EMERGENCY LIGHT, BLACK. |
| | E4: SURFACE LED EMERGENCY LIGHT, WHITE. |
| | EX: EMERGENCY LED EXIT LIGHT, WHITE. |
| | EX WP: WEATHERPROOF EMERGENCY LED EXIT LIGHT, WHITE. |
| | Lx: LIGHT FITTING C/W NON-MAINTAINED EMERGENCY BATTERY PACK. TYPE AS NOTED. |
| | L1: 2800 LONG ROD SUSPENDED EXTRUSION LIGHT. |
| | L2: 2400 LONG ROD SUSPENDED EXTRUSION LIGHT. |
| | L3: EXTERNAL FLOOD LIGHT. |
| | L4: 1000 LONG ROD SUSPENDED EXTRUSION LIGHT. |
| | L5: 1800 LONG ROD SUSPENDED EXTRUSION LIGHT. |
| | L6: SURFACE MOUNTED CAN DOWNLIGHT. |
| | L7: RECESSED DOWNLIGHT. |
| | L8: 600 x 600 SURFACE MOUNTED FLAT PLATE LED LIGHT. |
| | L9: 2100 LONG ROD SUSPENDED EXTRUSION LIGHT. |
| | L10: 3600 LONG ROD SUSPENDED EXTRUSION LIGHT. |
| | L11: CEILING BULKHEAD LED STRIP LIGHT. |
| | L12: RECESSED DOWNLIGHT. |
| | L13: RECESSED DOWNLIGHT. |
| | L14: RECESSED DOWNLIGHT. |
| | L15: 1200 LONG SURFACE BATTEN C/W PRESENCE SENSOR. |
| | L16: 1200 LONG SURFACE BATTEN. |
| | L17: SURFACE MOUNTED BUNKER LIGHT. |
| | L18: SURFACE MOUNTED BUNKER LIGHT. |
| | L19: BOLLARD LIGHT. |
| | L20: INGROUND UP LIGHT. |
| | AS1670 COMPLIANT FIRE INDICATOR PANEL INCORPORATING THE EWCIE AND FDCIE. |
| | SURFACE MOUNTED ADDRESSABLE AS7240.7 POINT SMOKE DETECTORS WITH A PERFORMANCE OF 6 TO 12 % OBS/M SET AT 7.8 %. |
| | CONCEALED SPACE ADDRESSABLE AS7240.7 POINT SMOKE DETECTORS WITH A PERFORMANCE OF 6 TO 12 % OBS/M SET AT 7.8 %. PROVIDE THE DETECTOR WITH A REMOTE INDICATOR AND ACCESS BRACKET AS REQUIRED. |
| | SURFACE MOUNTED AS7240.5:2018 TYPE B SEALED FIXED TEMPERATURE ADDRESSABLE THERMAL DETECTOR WHITE. |
| | SURFACE MOUNTED AS7240 COMPLIANT WHITE EMERGENCY EVACUATION SPEAKER C/W PLASTIC HOUSING. |
| | RECESSED AS7240 COMPLIANT EMERGENCY EVACUATION SPEAKER C/W WHITE PLASTIC GRILL. |
| | SURFACE MOUNTED WEATHERPROOF AS7240 COMPLIANT EVACUATION HORN SPEAKER. |
| | WALL MOUNTED FIRE ALARM STROBE TO AS1670-2018 AND AS7240. |
| | PUBLIC ADDRESS RECESSED SPEAKER. |
| | PUBLIC ADDRESS SURFACE MOUNTED SPEAKER. |
| | PUBLIC ADDRESS HORN SPEAKER. |

LEGEND

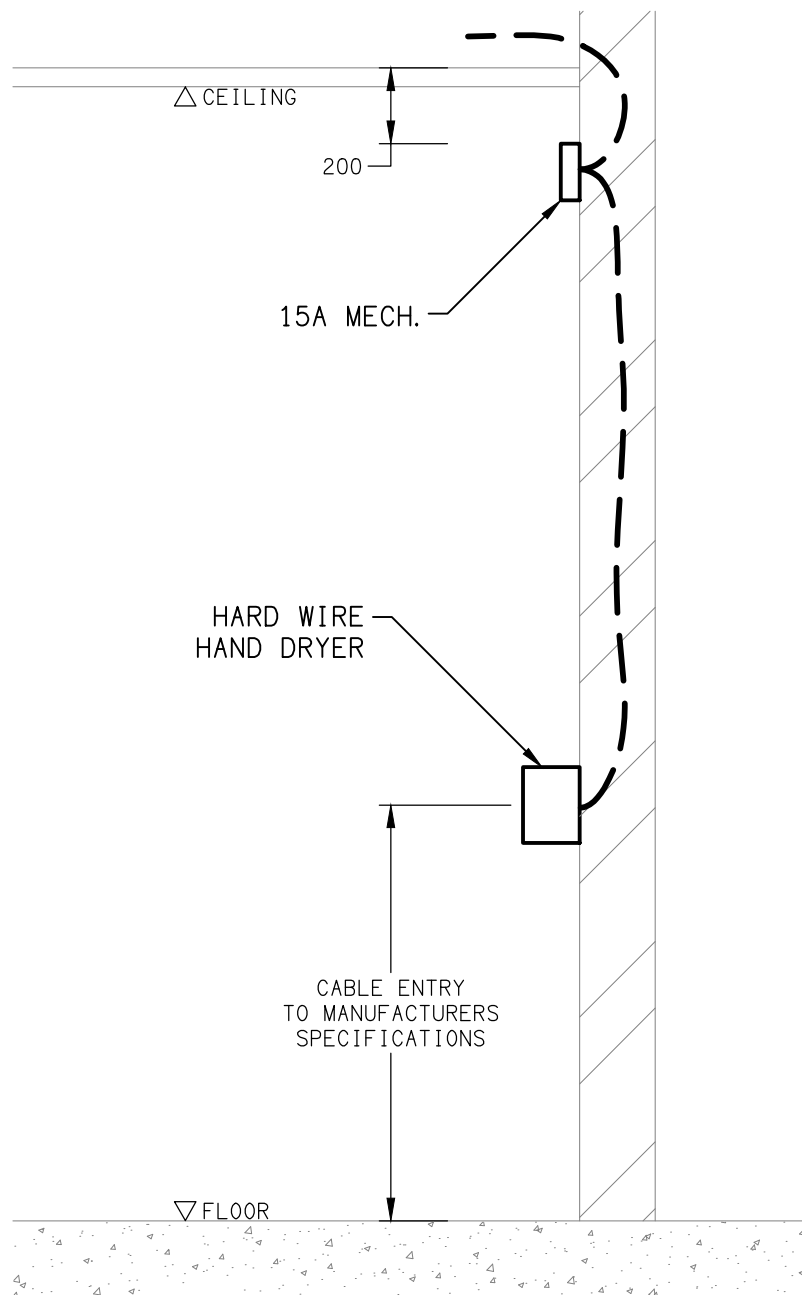
| | |
|--|---|
| | RETAIL METER. |
| | PRIVATE MULTI FUNCTION METER. |
| | NCC BCA PART J ENERGY METER. |
| | SOLAR ENERGY METER. |
| | CIRCUIT BREAKER MOTOR UNIT. |
| | WIRELESS CONTROLLED PROTECTION RELAY. |
| | SOLAR GENERATION SIGNALING DEVICE. |
| | SOLAR DATA LOGGER. |
| | SOLAR NETWORK PROTECTION CTs. |
| | SOLAR NETWORK PROTECTION SMART METER (WIRELESS). |
| | MANUAL TRANSFER SWITCH. |
| | REFER TO DETAIL NOTED FOR THE AREA SHOWN HATCHED. ADDITIONAL OUTLETS & FITTINGS MAY BE SHOWN ON DETAIL. |
| | FUSE. |
| | SINGLE PHASE. |
| | THREE PHASE. |
| | CURRENT TRANSFORMER C/W REMOVABLE LINK. |
| | FUSE LINK. |
| | COMBINED FUSE SWITCH. |
| | CIRCUIT BREAKER. |
| | ISOLATOR. |
| | RESIDUAL CURRENT DEVICE. |
| | CONTACTOR – NORMALLY OPEN. |
| | CONTACTOR – NORMALLY CLOSED. |



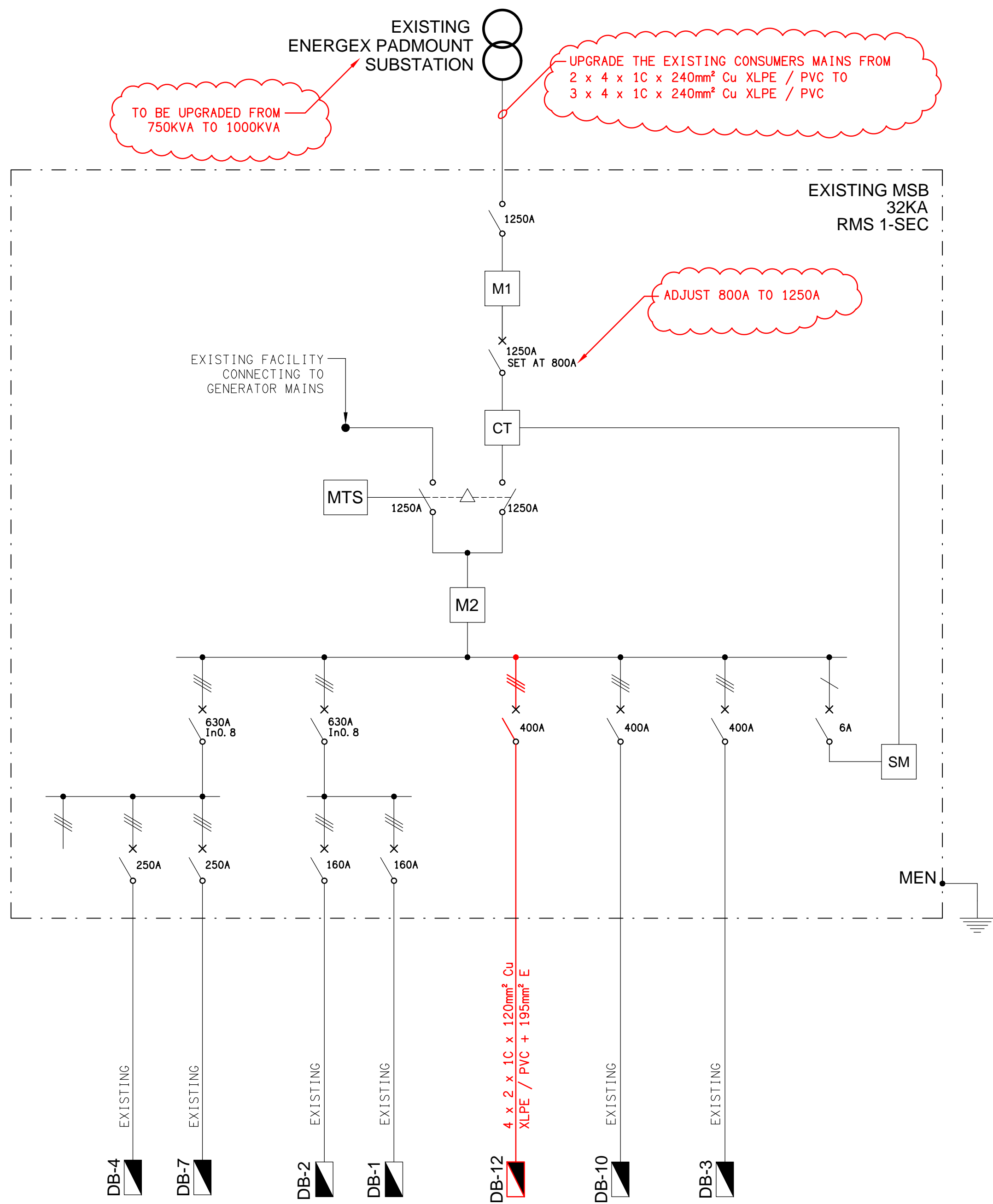
DETAIL
TYPICAL OUTLET MOUNTINGS
NOT TO SCALE



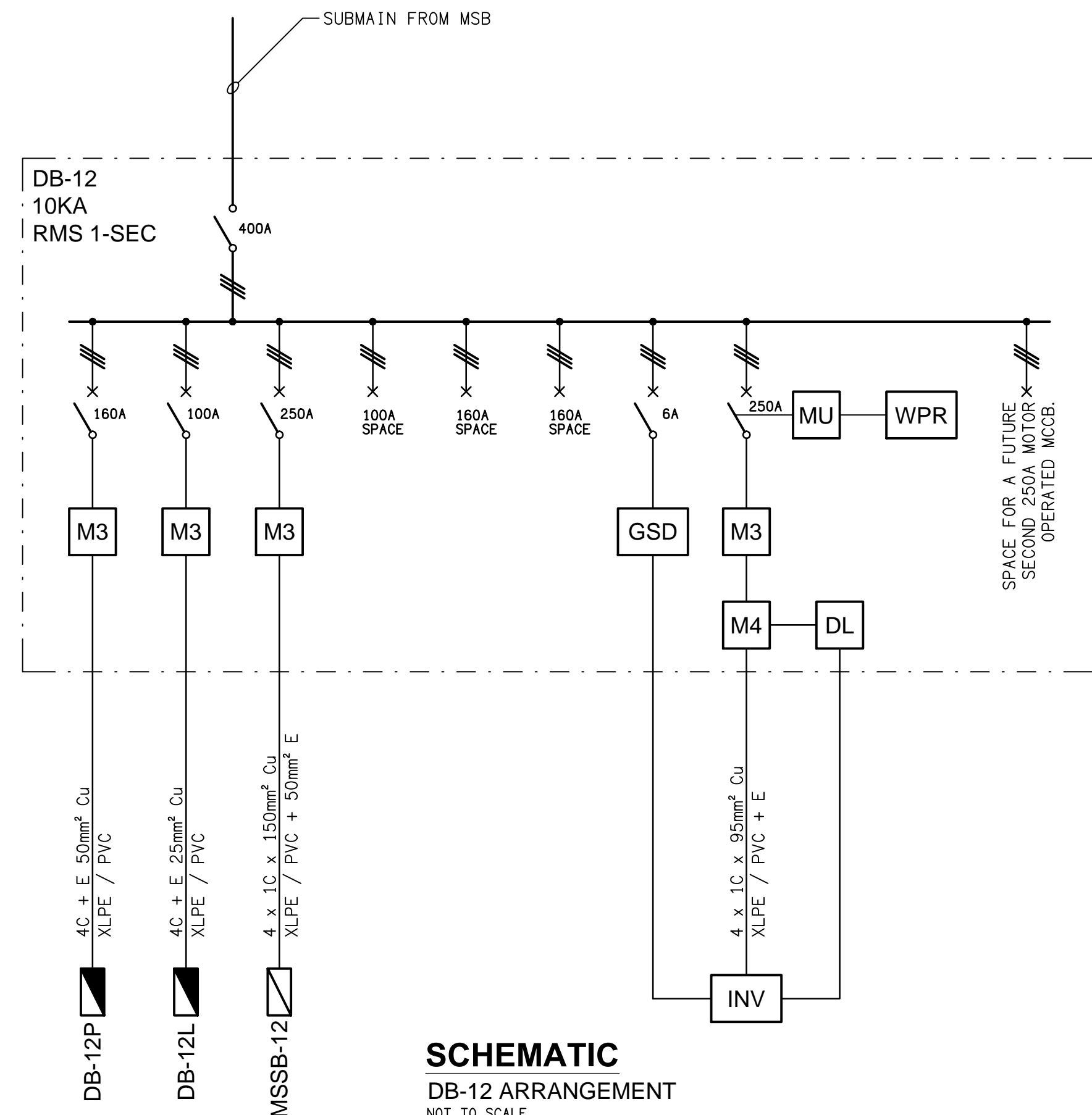
SCHEMATIC
RJ45 PINOUT CONFIGURATION
NOT TO SCALE



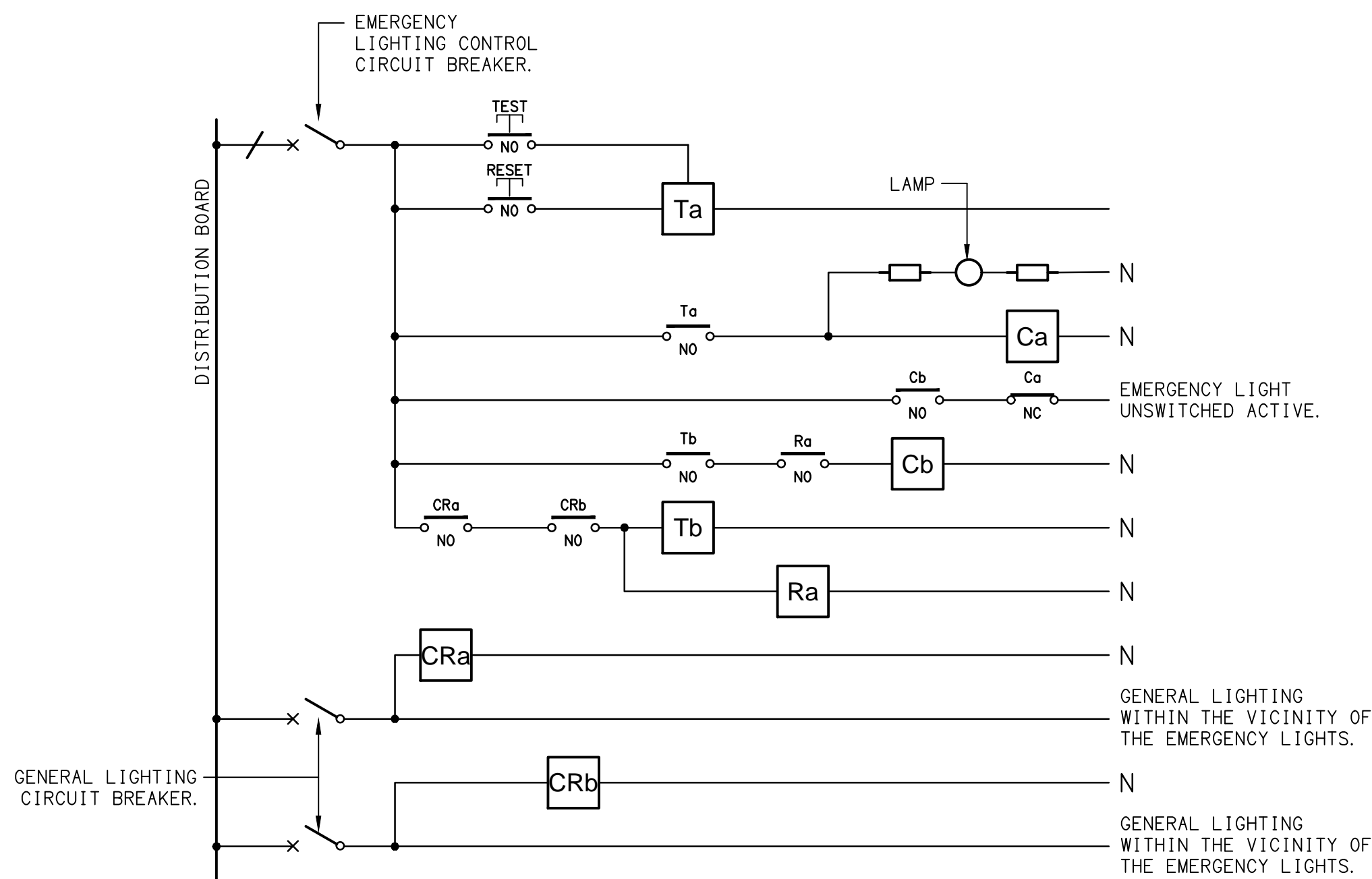
DETAIL
HAND DRYER CONNECTION
NOT TO SCALE



SCHEMATIC
MAIN SWITCHBOARD
NOT TO SCALE



SCHEMATIC
DB-12 ARRANGEMENT
NOT TO SCALE



SCHEMATIC
EMERGENCY LIGHTING
NOT TO SCALE

EMERGENCY LIGHT NOTES

- THE EMERGENCY LIGHT UNSWITCHED ACTIVE / GENERAL LIGHTING SWITCHED ACTIVE CIRCUIT ARRANGEMENT AND CONTROL IS TYPICAL FOR ALL CIRCUITS SUPPLYING EMERGENCY LIGHTS.
- PROVIDE ADDITIONAL CONTROL RELAYS (CRx) CONFIGURED AS PER CRa AND CRb FOR ALL ADDITIONAL LIGHTING CIRCUITS THAT SUPPLY LIGHTS IN THE VICINITY OF THE EMERGENCY LIGHTS.

EMERGENCY LIGHT EQUIPMENT:

TEST – TEST PUSH BUTTON MOUNTED ON THE DISTRIBUTION BOARD ESCUTCHEON.

RESET – RESET PUSH BUTTON MOUNTED ON THE DISTRIBUTION BOARD ESCUTCHEON.

LAMP – AMBER TEST INDICATING LAMP MOUNTED ON THE DISTRIBUTION BOARD ESCUTCHEON.

Ta – ADJUSTABLE 0–3 HOUR TIMED RELAY.

Tb – 15 MINUTE RUN-ON TIMER TO OPERATE UPON THE RETURN OF MAINS POWER.

Cx – CONTACTOR x.

CRx – CONTROL RELAY x.

Rx – RELAY x.

ELECTRICAL DESIGN GROUP BRISBANE PTY LTD
ACN 092 710 793

TRADING AS:
ELECTRICAL DESIGN GROUP

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USE FIGURED DIMENSIONS IN PREFERENCE TO SCALE.

ALL DIMENSIONS TO BE VERIFIED ONSITE.

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PROJECT:
**KINGS CHRISTIAN COLLEGE
CHAMBERS FLAT, SENIOR SCHOOL CHA12**

38-112 ANZAC AVENUE, CHAMBERS FLAT

| | | |
|------|--------------|------------|
| C | TENDER | 16/02/2026 |
| REV. | DESCRIPTION: | DATE: |

DRAWING:
**ELECTRICAL SERVICES
SCHEMATICS**

SCALE:
NOT TO SCALE AT A1

PROJECT NO:
C3474a

DRAWING NO:
E02

REVISION:
C

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.
- UPDATE THE EXISTING AS BUILT DRAWINGS.
- UPDATE THE EXISTING MAINTENANCE MANUAL.
- CABLING, CABLE SUPPORT SYSTEMS AND ACCESS.
- POWER DISTRIBUTION.
- LIGHTING.
- COMMUNICATIONS CABLING.
- PUBLIC ADDRESS SYSTEM.
- FIRE ALARM SYSTEM.
- AS CONSTRUCTED DOCUMENTS.
- CORROSION PROTECTION
- ALL WORKS AND MATERIALS TO CREATE A SAFE WORK SITE INCLUDING RESTRICTING ACCESS TO NON-AUTHORISED PEOPLE.
- ALL MACHINERY REQUIRED TO COMPLETE THE INSTALLATION INCLUDING LIFTING AND HOISTING MACHINERY, TRANSPORTATION MACHINERY, WINCHES, FORKLIFTS. SCISSOR LIFTS, HOISTS, BOOMS, CHERRY PICKERS.
- ALL NECESSARY WASTE MANAGEMENT AND WASTE REMOVAL.
- 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 SCHOOL 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 SCHOOL 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.
- AS1670. 1.
- 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

DURING THE SEPTEMBER 2026 SCHOOL HOLIDAYS, PROVIDE A THIRD SET OF CONSUMERS MAINS CONDUCTORS AND ADJUST THE MSB MCCB TO 1250 AMPS. SUBMIT AN EWR TO ENERGEX TO UPGRADE THE EXISTING SUBSTATION DURING THE SEPTEMBER 2026 SCHOOL HOLIDAYS.

THE POWER DISTRIBUTION COMPONENT OF THIS CONTRACT INCLUDES PROVIDING THE EXISTING MSB WITH A NEW MCCB TO SUPPLY THE NEW DISTRIBUTION BOARD DB-12 VIA A NEW UNDERGROUND SUB MAIN. PROVIDE DB-12 WITH MCCBS TO SUPPLY THE NEW DISTRIBUTION BOARD DB-12P AND DB-12L AND THE MECHANICAL SWITCHBOARD MSSB-12.

PROVIDE DB-12 WITH SPACE FOR SOLAR PROTECTION EQUIPMENT, 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 COLLATES 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 SUBMAINS FROM THE MSB TO DB-12.
- ENERGY MONITORING SYSTEM.
- DISTRIBUTION BOARDS DB-12, DB-12P AND DB-12L.
- SUBMAINS FROM DB-12 TO DB-12P, DB-12L AND MSSB-12.
- 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 MAINS CURRENT, VOLTAGE, FREQUENCY FOR THE FIRST 14 DAYS FOLLOWING PRACTICAL COMPLETION AND SUBMIT THE THERMOSCAN AND CHART RECORDING AND FOR APPROVAL.
- CIRCUITS.
- ISOLATORS AND OUTLETS.
- TESTING AND COMMISSIONING.
- SWITCHBOARD SHOP DRAWING.

THE POWER SUPPLY TO THE REMAINDER OF THE SCHOOL MUST BE MAINTAINED AT ALL TIMES THE SCHOOL IS OPEN INCLUDING THE AFTER HOURS CARE. ANY INTERRUPTION TO THE POWER SUPPLY MUST BE ADVISED TO THE SCHOOL 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 SOLAR PV SYSTEM

PROVIDE A 100KW SOLAR PV INSTALLATION AS FOLLOWS:

- UNDERTAKEN BY AN INSTALLER WITH SOLAR ACCREDITATION AUSTRALIA (SAA) DESIGN AND INSTALLATION ACCREDITATION.
- ENERGEX APPROVALS, FEES AND CHARGES.
- RPEQ ENGINEERING AND DESIGN.
- SUPPLY AND INSTALLATION OF ALL COMPONENTS FORMING PART OF THE SOLAR SYSTEM INSTALLATION.
- ALL CABLING MUST BE COPPER.
- PROVIDE A ALUMINIUM OR HOT DIPPED GALVANIZED PV PANEL SUPPORT SYSTEM.
- PROVIDE THE SOLAR SYSTEM DC AND AC CABLING THAT HAS A LESS THAN COMBINED LOSS LESS THAN 3%.
- PROVIDE SHOP DRAWINGS AND TECHNICAL DETAILS OF EACH SOLAR SYSTEM INCLUDING ALL COMPONENTS AND THE PV PANEL LAYOUTS FOR APPROVAL.
- PROVIDE A HARD COPY OF THE ENTIRE SYSTEM DESIGN AND ALL INFORMATION ASSOCIATED WITH EACH SOLAR SYSTEM IN A PERMANENT DOCUMENT HOLDER ADJACENT EACH SYSTEM INVERTER.
- SIGNAGE AND LABELS.
- AC AND DC CABLING.
- AC AND DC ISOLATORS.
- PROVIDE THE INVERTER WITH NETWORK PROTECTION INTERFACED TO THE SITES EXISTING WIRELESS NETWORK PROTECTION SYSTEM.

8. 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.

9. COMMUNICATIONS CABLING

THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES A NEW COMMUNICATION RACK CR-12 TO SUPPORT CAT 6 RJ45 OUTLETS CABLED TO MODULAR PATCH PANELS IN THE COMMUNICATIONS RACK CR-12 VIA CAT 6 UTP CABLING. PROVIDE A NEW 12 CORE OS1 GEL FILLED UNDERGROUND LC TERMINATED OPTICAL FIBRE CABLE FROM THE EXISTING COMMUNICATIONS RACK CR-4 TO A NEW FOBOT IN CR-12. THE COMMUNICATIONS CABLING IS TO BE OF THE SAME EXISTING STRUCTURED CABLING SOLUTION USED IN BUILDING CHA10 AND BE PROVIDED WITH A MANUFACTURERS 15 YEAR WARRANTY.

NOTES

9. COMMUNICATIONS CABLING CONTINUED

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 ROUGHIN. 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.
- ACCESS CONTROL CABLING.
- INTRUDER DETECTION SECURITY SYSTEM CABLING.
- COMMUNICATIONS RACK CR-12.
- PATCH PANELS.
- FOBOT.
- OPTICAL FIBRE CABLE CONNECTION CR-4 TO CR-12.
- LABELLING.
- 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, ACCESS CONTROL CARD READERS, INTRUDER DETECTORS, PIZEO SIRENS AND ACTIVE COMMUNICATIONS EQUIPMENT WILL BE PROVIDED BY THE SCHOOL.

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-12. 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.
- RACK MOUNTED AMPLIFIERS.
- CO-ORDINATION.
- TESTING, COMMISSIONING AND BALANCING.
- MAINTENANCE.
- AS CONSTRUCTED DOCUMENTS INCLUDING DRAWINGS DETAILING THE LOOP PATH OF EACH SPEAKER CABLE.
- OPERATION AND MAINTENANCE MANUAL.
- CABLING, CABLE SUPPORT SYSTEMS AND ACCESS.
- ALL MINOR COMPONENTS AND INCIDENTAL WORKS NOT SPECIFICALLY REFERRED TO, HOWEVER NECESSARY TO COMPLETE THE PUBLIC ADDRESS SYSTEM INSTALLATION SUCH THAT IT IS HANDED OVER COMPLETE, OPERATIONAL AND FIT FOR THE INTENDED USE.

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 SCHOOL.

11. FIRE ALARM

THE FIRE ALARM COMPONENT OF THIS CONTRACT INCLUDES A STANDALONE NON BRIGADE MONITORED FIRE ALARM SYSTEM WITH SPACE AND CAPACITY TO DOUBLE THE QUANTITY OF DETECTORS, SPEAKERS AND INTERFACES PROVIDED AS PART OF THE INITIAL CONSTRUCTION AS THE FIP WILL BE USED TO ACCOMMODATE THE FUTURE EXPANSION OF BUILDING 12.

THE FIRE ALARM COMPONENT OF THIS CONTRACT INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:

- THE PROVISION OF A STAND ALONE AS1670.1 2018 FIRE DETECTION AND ALARM SYSTEM.
- SUPPLY AND INSTALLATION OF ALL COMPONENTS FORMING PART OF THE FIRE ALARM SERVICES.
- CO-ORDINATION.
- INSPECTIONS.
- LOG BOOK.
- TESTING AND COMMISSIONING.
- MAINTENANCE.
- AS CONSTRUCTED DOCUMENTS INCLUDING DRAWINGS DETAILING THE LOOP PATH AND EACH COMPONENT ADDRESS.
- OPERATION AND MAINTENANCE MANUAL.
- CABLING, CABLE SUPPORT SYSTEMS AND ACCESS.
- FIP INCORPORATING THE FDCIE AND EWGIE.
- SYSTEM INTERFACE DIAGRAM.
- MANUAL CALL POINT ON THE FDCIE.
- DETECTORS.
- SPEAKERS AND HORNS.
- INTERFACE TO THE SECURITY SYSTEM.
- ALL MINOR COMPONENTS AND INCIDENTAL WORKS NOT SPECIFICALLY REFERRED TO, HOWEVER NECESSARY TO COMPLETE THE FIRE ALARM SYSTEM INSTALLATION SUCH THAT IT IS HANDED OVER COMPLETE, OPERATIONAL AND FIT FOR THE INTENDED USE.

ALL COMPONENTS PROVIDED AS PART OF THE FIRE ALARM SYSTEM MUST BE GENERIC IN THAT THEY CAN BE EXPANDED UPON AND MAINTAINED BY ANY CONTRACTOR WHO HOLDS THE REQUIRED QBCC AND FIRE PROTECTION CONTRACTORS REGISTRATION BOARD OF QUEENSLAND INC REGISTRATIONS. ALL SUCH COMPONENTS MUST NOT BE LOCKED INTO A SINGLE MANUFACTURER OR LIMITED BY A LICENSING AGREEMENT.

ALL COMPONENTS PROVIDED AS PART OF THE FIRE ALARM SYSTEM MUST BE LISTED ON THE CSIRO.AU/ACTIVEFIRE WEB SITE AND BE PROVIDED WITH A CURRENT CERTIFICATE OF CONFORMITY. INCLUDE A COPY OF EACH CERTIFICATE OF CONFORMITY IN THE MANUAL.

ENSURE ALL AS1670.1:2018 WORKS ARE UNDERTAKEN BY, OR UNDER THE DIRECTION OF A SUITABLY QUALIFIED AND EXPERIENCED FIRE ALARM SYSTEM INSTALLER WHO HOLD THE REQUIRED QBCC AND FIRE PROTECTION CONTRACTORS REGISTRATION BOARD OF QUEENSLAND INC REGISTRATIONS. INCLUDE A COPY OF ALL THE ABOVE REGISTRATIONS AND LICENCES IN THE MANUAL

PRIOR TO PRACTICAL COMPLETION CERTIFY THE INSTALLATION ON A FORM 12 AS COMPLYING WITH THE RELEVANT CODES AND STANDARDS AND INCLUDE A COPY OF THE CERTIFICATION IN THE MANUAL.

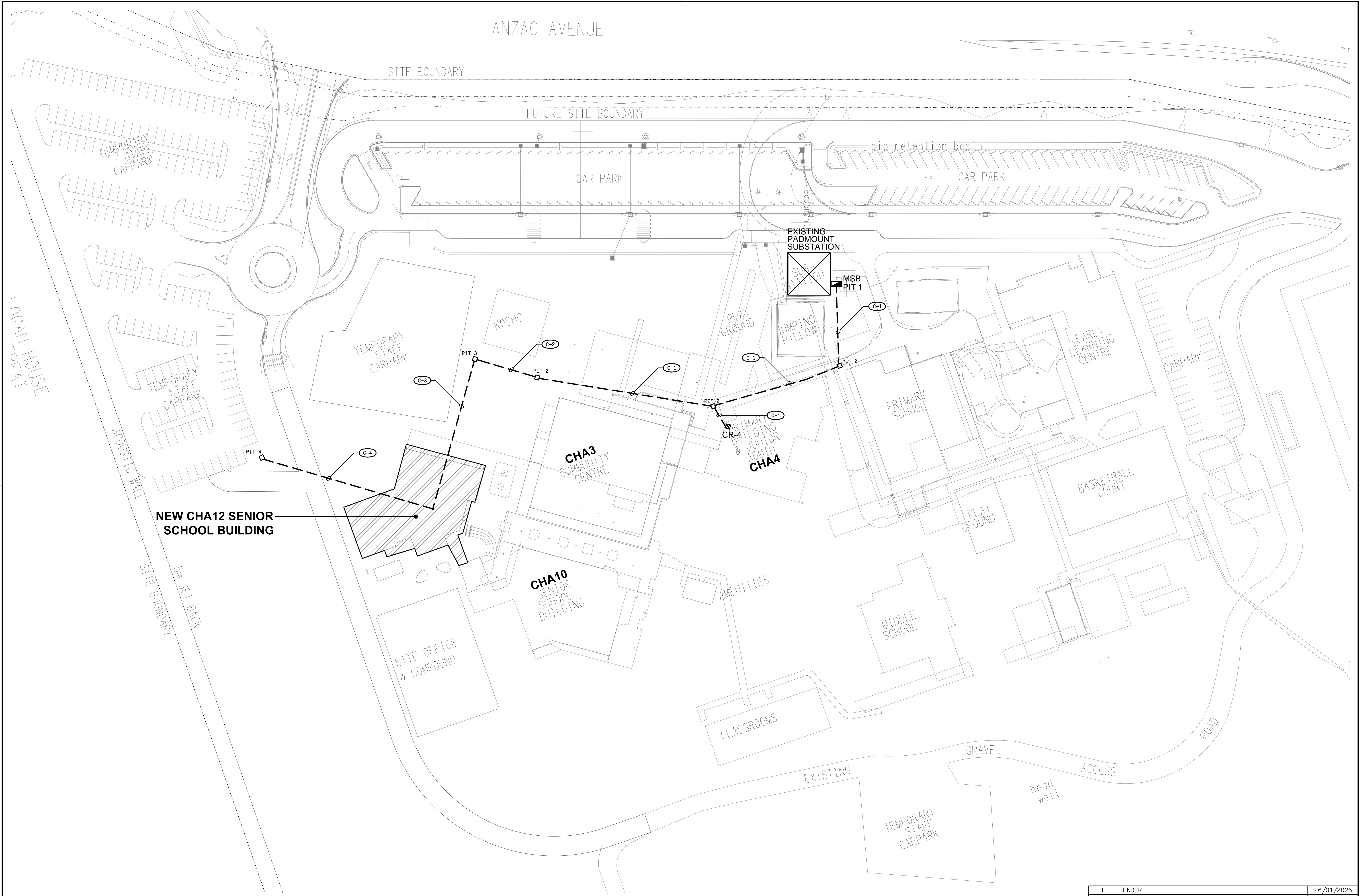
IN ADDITION TO THE DETECTORS DETAILED ON THE DRAWINGS, ALLOW FOR THE FOLLOWING PROVISIONAL ADDITIONAL DETECTORS TO BE LOCATED ON SITE:

- 6 SMOKE DETECTORS.
- 2 THERMAL DETECTORS.
- 8 CONCEALED SPACE DETECTORS INCLUDING ACCESS BRACKETS.

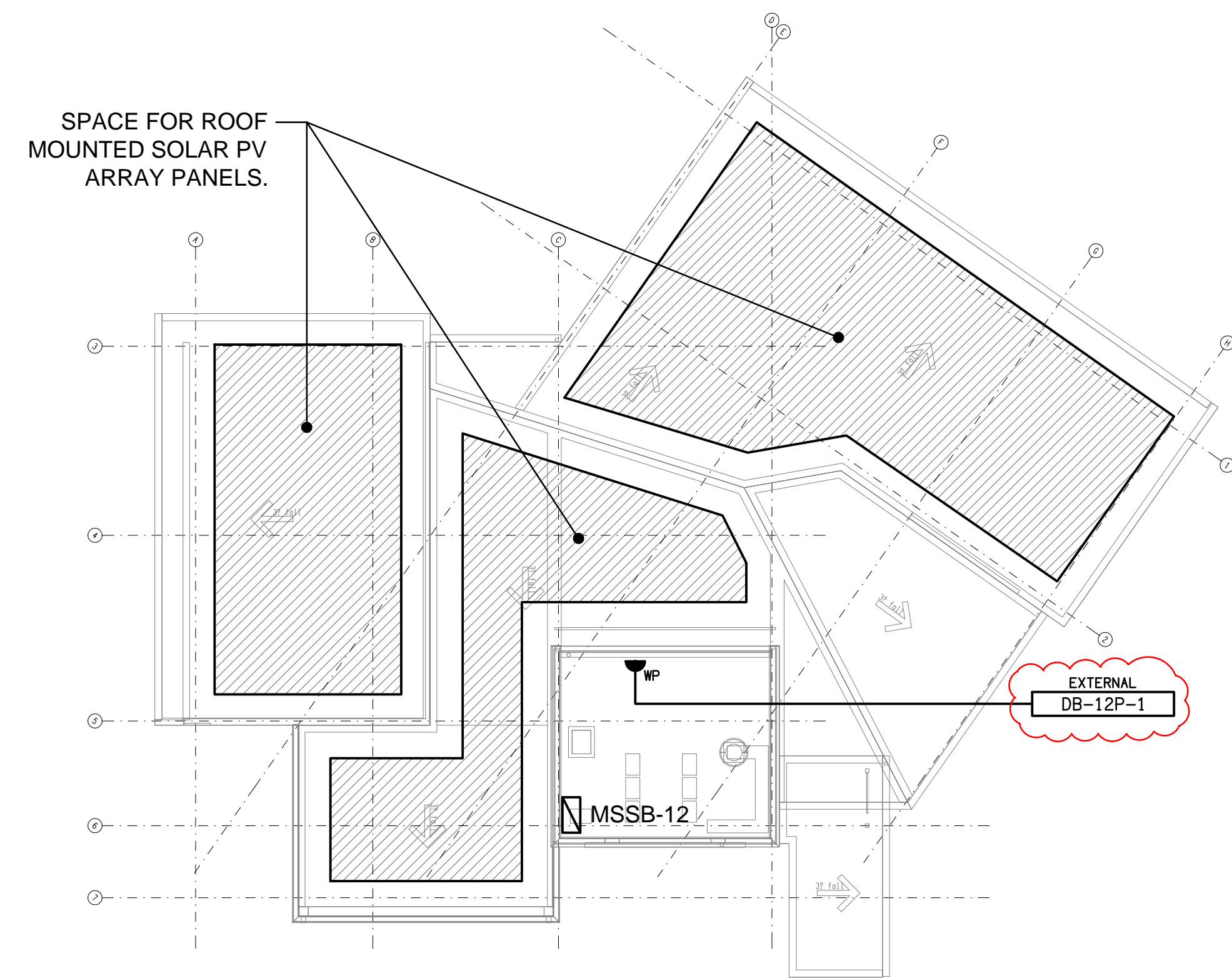
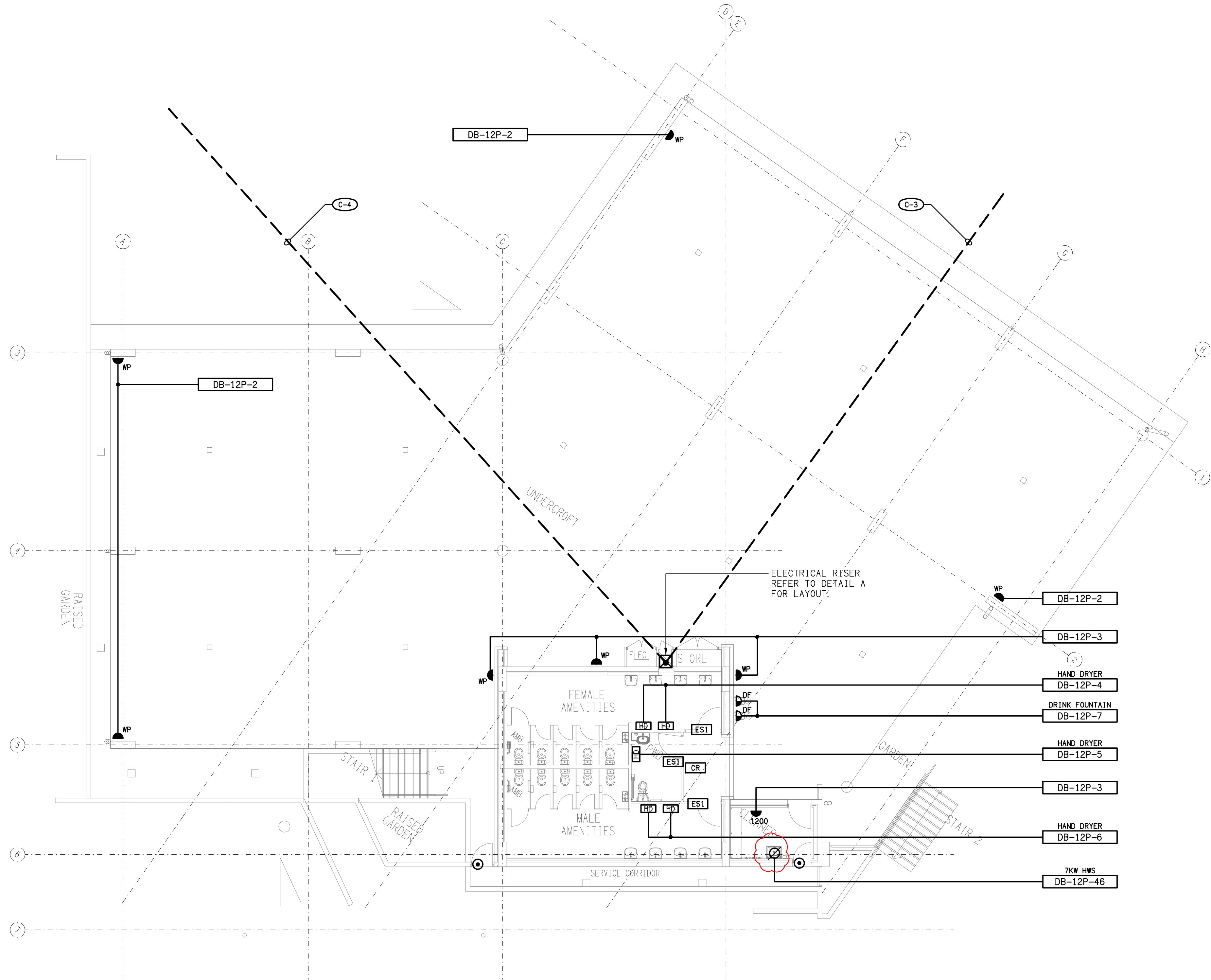
12. ABBREVIATIONS

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.
C/W - COMPLETE WITH.
DW - DISHWASHER.
HP - HOT PLATE.
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.
OV - OVEN.
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.

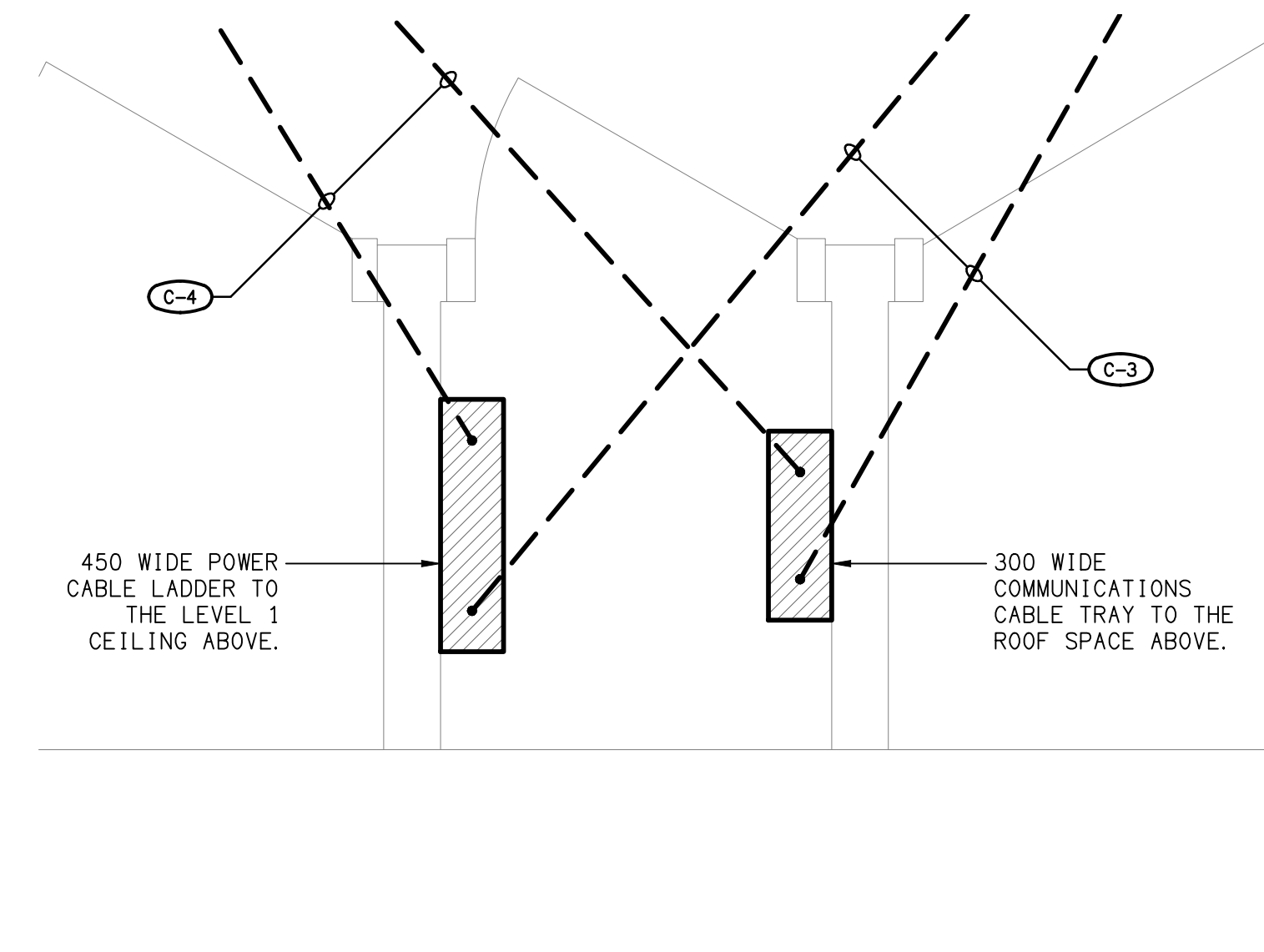
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ROOF LEVEL
PLANT DECK PLAN
SCALE 1:200



DETAIL A
ELECTRICAL RISER PLAN
SCALE 1:10

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PROJECT:
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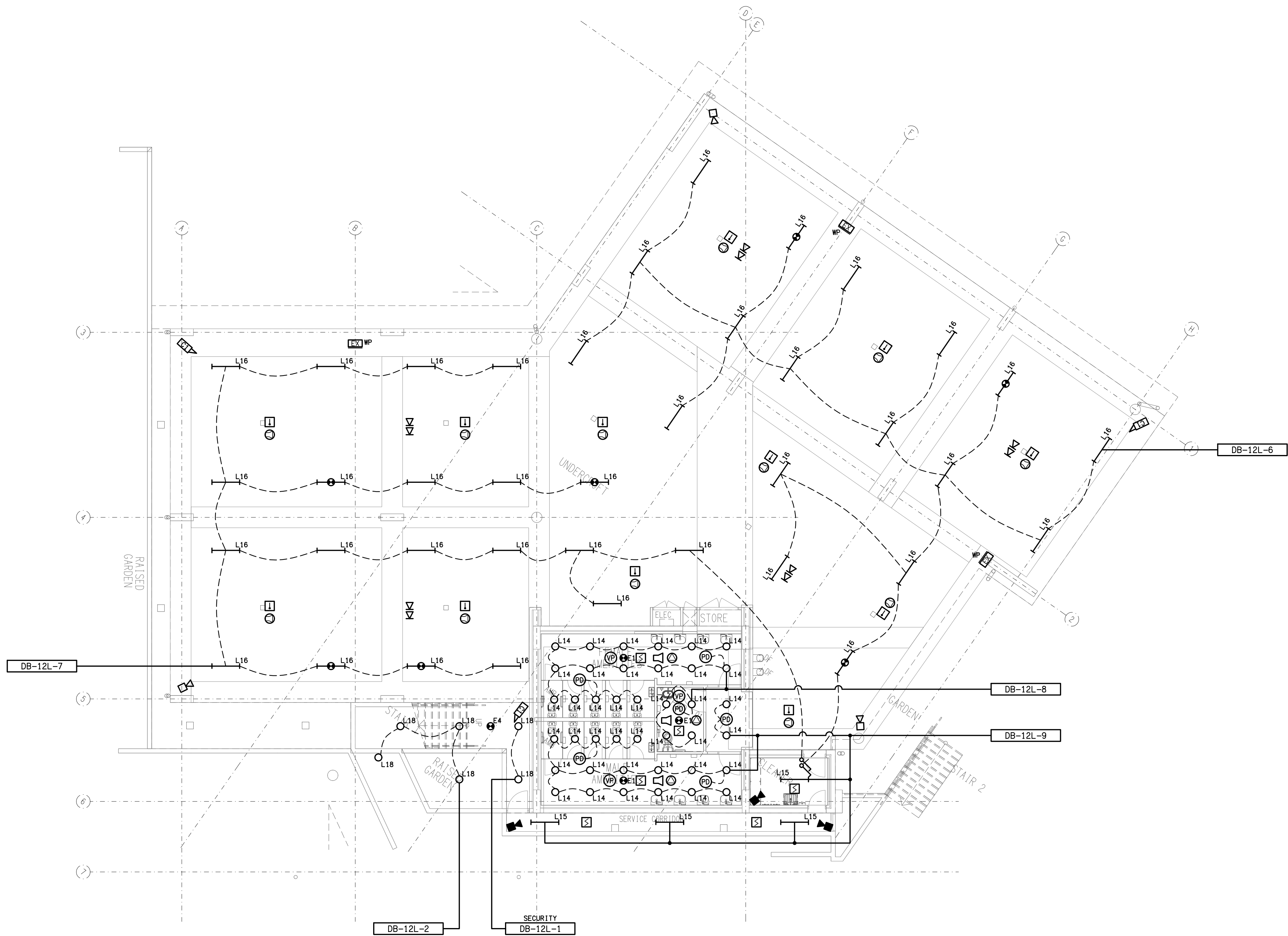
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DRAWING:
**ELECTRICAL SERVICES
GROUND LEVEL FLOOR PLAN**

SCALE:
1:100 UNO AT A1

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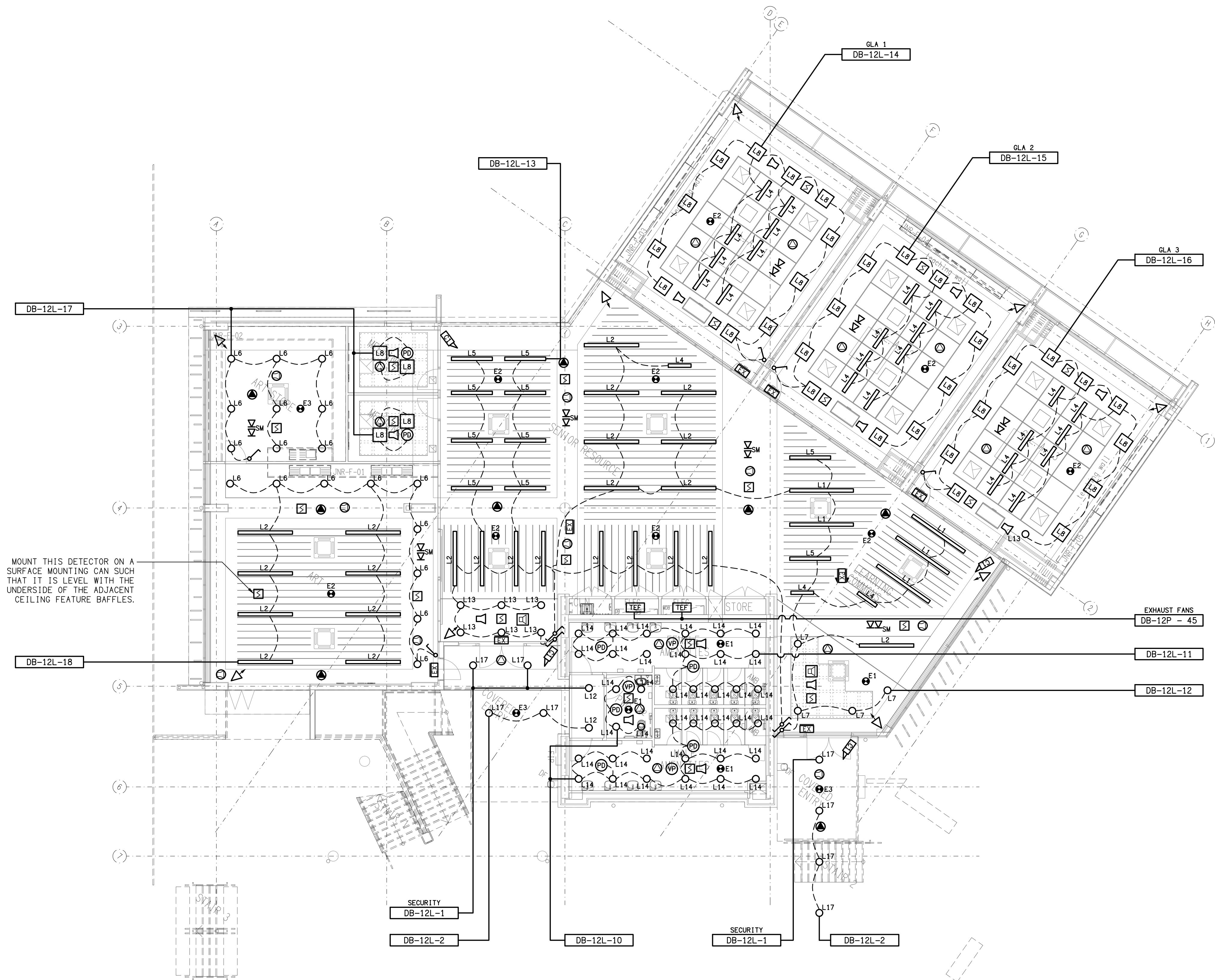
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| DRAWING: ELECTRICAL SERVICES GROUND LEVEL REFLECTED CEILING PLAN | | |
| SCALE: 1:100 | PROJECT NO: C3474a | DRAWING NO: E06 |
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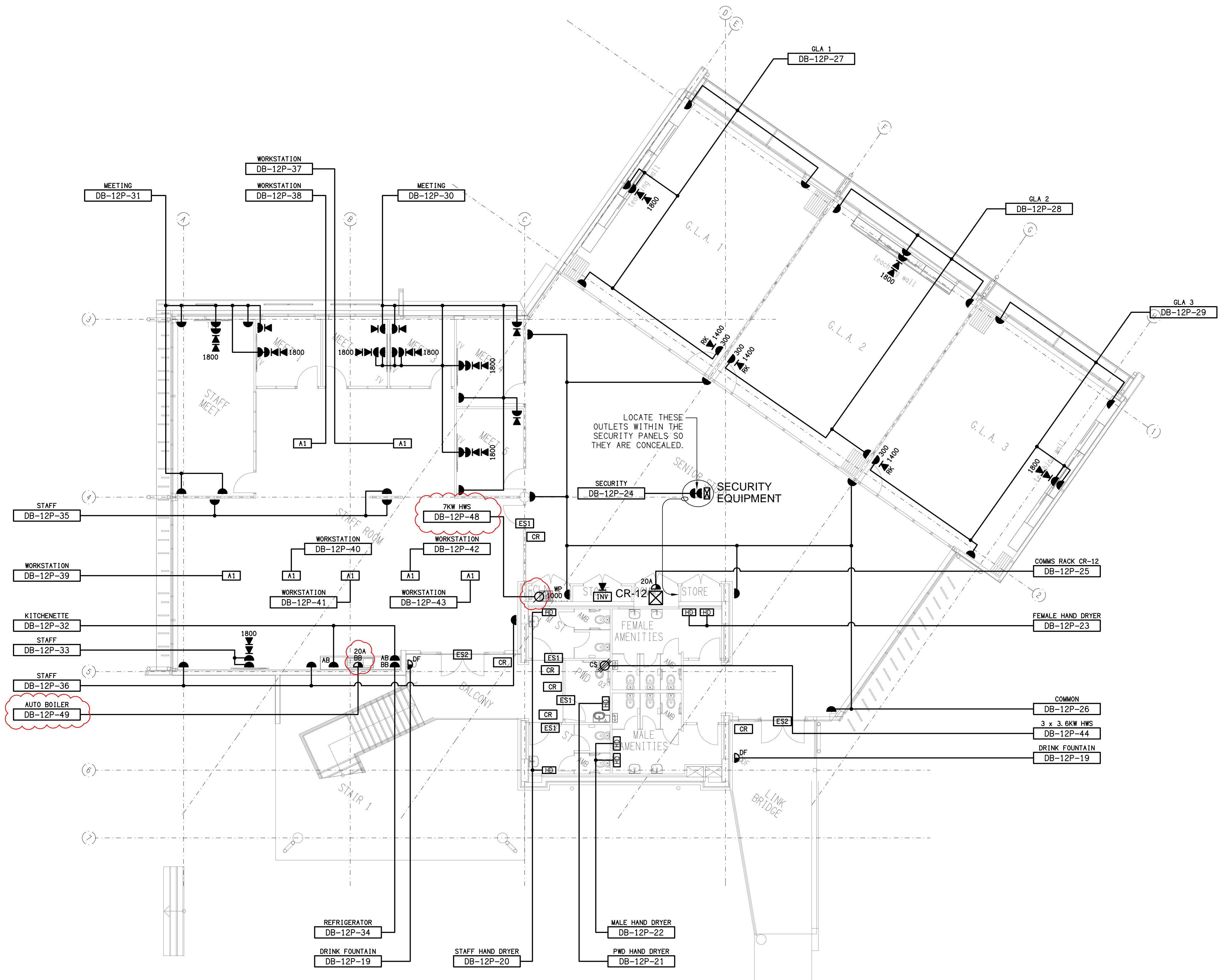
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DRAWING:
**ELECTRICAL SERVICES
LEVEL 2 FLOOR PLAN**

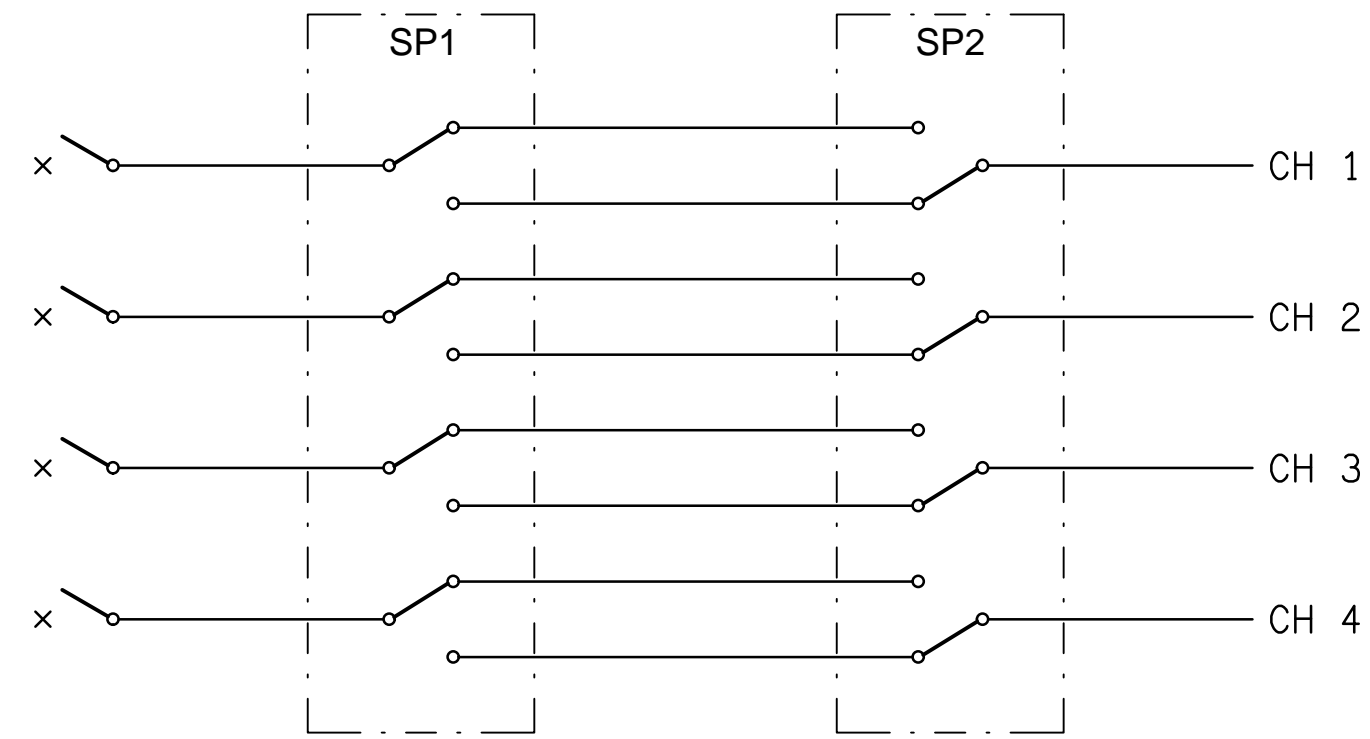
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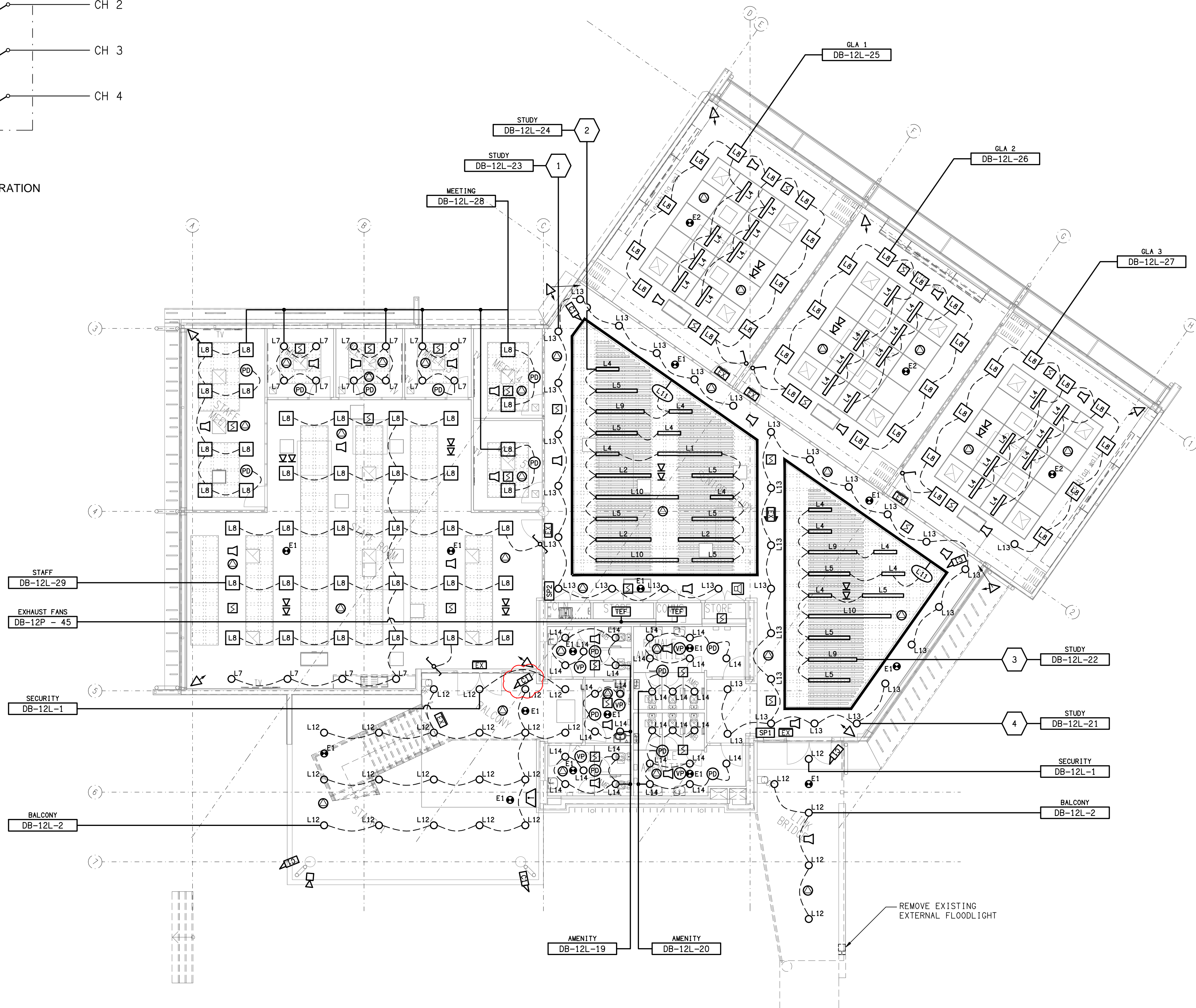
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DRAWING NO:
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REVISION:
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SCHEMATIC
SWITCH PANEL SP1 / SP2 CONFIGURATION
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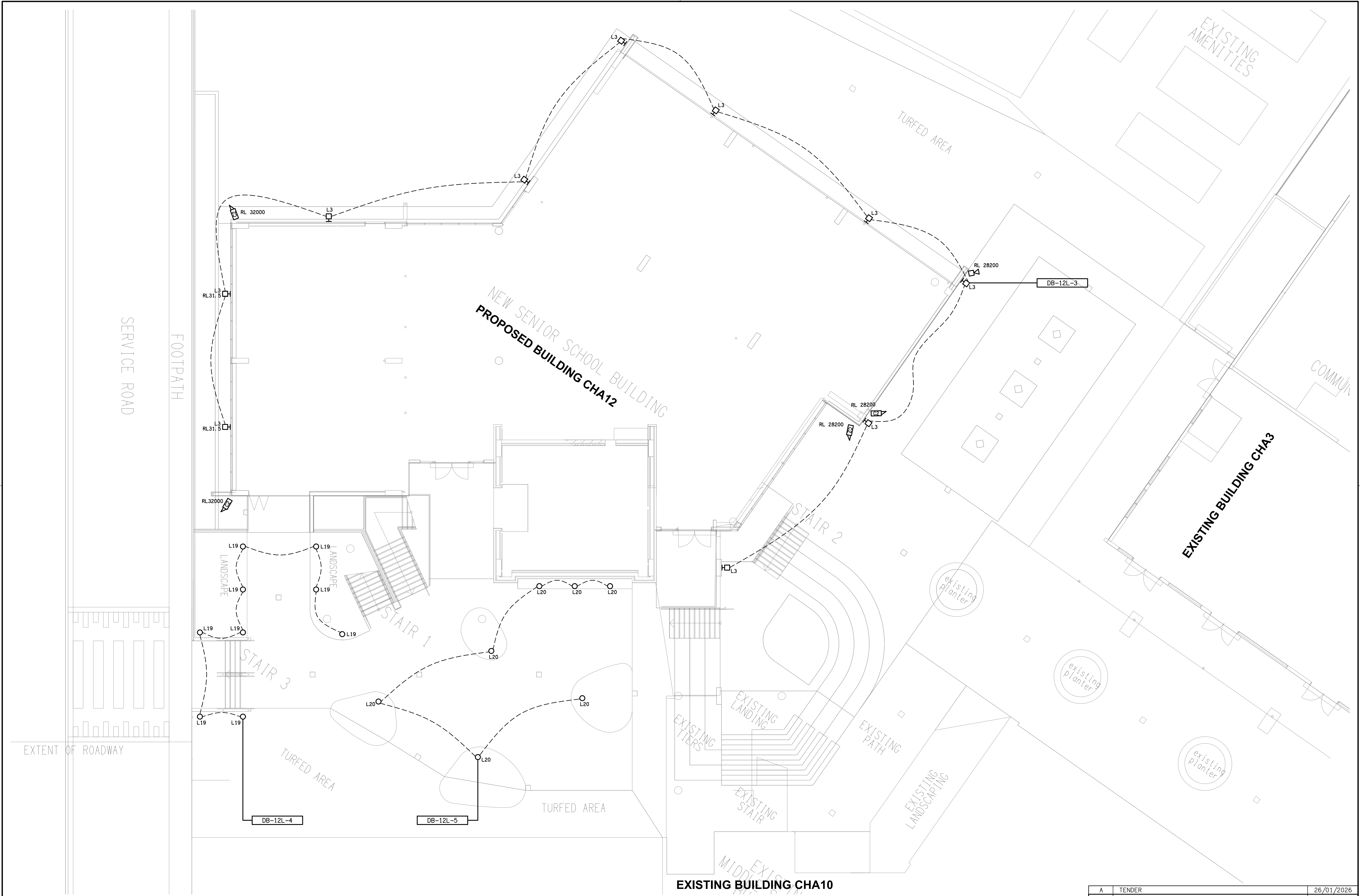
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| DRAWING: ELECTRICAL SERVICES LEVEL 2 REFLECTED CEILING PLAN | | PROJECT NO: | DRAWING NO: | REVISION: |
| SCALE: 1:100 | | AT A1 | C3474a E10 | C |



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| | | | | | <div>REV: DESCRIPTION: DATE:</div> | |
| | | | | | <div>DRAWING:</div> <div>ELECTRICAL SERVICES LANDSCAPE LIGHTING PLAN</div> | |
| | | | | | <div>SCALE:</div> <div>1:100</div> | <div>AT A1</div> |