



ELECTRICAL DESIGN GROUP

ELECTRICAL BUILDING SERVICES CONSULTANTS

P.O. Box 15, SHERWOOD Q. 4075

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Website: www.edg.net.au Email: brisbane@edg.net.au

C3232a - KINGS CHRISTIAN COLLEGE - CHAMBERS FLAT, MIDDLE SCHOOL CHA10

C3232a-0001(N).xls

ELECTRICAL SERVICES CONTRACT DOCUMENT SCHEDULE

REVISION N - 08 DECEMBER 2025

ISSUING INFORMATION				DATE OF ISSUE									
	DAY	MONTH	YEAR	REASON FOR ISSUE		11	21	08	08				
						08	08	09	12				
						25	25	25	25				
						C	C	C	C				
A = APPROVAL C = CONSTRUCTION N = COORDINATION P = PRELIMINARY T = TENDER													

DISTRIBUTION					NUMBER OF COPIES				
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C3232a-E07.dwg	LEVEL 1 FLOOR PLAN	E		F					
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ELECTRICAL EQUIPMENT SCHEDULE

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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
L1	10W 4000K LED	51 DIA 45 DEG SURFACE TUBE LIGHT CUSTOM LENGTH SUCH THAT THE UNDERSIDE OF THE FITTING IS LEVEL WITH THE ADJACENT ACOUSTIC PANEL. REMOTE DRIVER LOCATED IN A CONCEALED ACCESSIBLE POSITION NOTED ON THE AS CONSTRUCTED DOCUMENTS. IT IS ACCEPTABLE TO SUPPLY MULTIPLE L1 FITTINGS FROM A SINGLE DRIVER IF IT IS APPROPRIATELY SIZED.	BLACK	LUMEN 8 SOLIS ROLL+ SOROSU10930TR	C
L2	4000K LED 17.2W/M IP20 24V DC LED STRIP	ROD SUSPENDED EXTRUSION LEVEL WITH THE UNDERSIDE OF THE SUSPENDED ACOUSTIC PANELS. THE SECOND NUMBER REPRESENTS THE LENGTH. 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	A
L3	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	J
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	J
L5	4000K LED 17.2W/M IP20 24V DC LED STRIP	ROD SUSPENDED 2400 LONG EXTRUSION FIXED FLUSH WITH THE UNDERSIDE OF THE SUSPENDED ACOUSTIC PANEL. 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 L5 FITTINGS FROM A SINGLE DRIVER IF IT IS APPROPRIATELY SIZED.	BLACK EXTRUSION	M-ELEC ML-ALU2-K- V3 + ML-VL-17.2-.NW	D
L6	8W 4000K LED	RECESSED 40 DEG BEAM DOWNLIGHT C/W REMOTE DRIVER RECE4SS THE DOWNLIGHT INTO THE SUSPENDED ACOUSTIC PANEL AND PROVIDE A STRUCTURAL BACKING PLATE ABOVE THE ACOUSTIC PANEL TO SUPPORT THE L6 FITTING.	BLACK TRIM	GAMMA ILLUMINATION RHO 1001-4K-8W	A



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L7	4000K LED 9.6W/M IP65 24V DC LED STRIP	SURFACE MOUNTED 5000 LONG EXTRUSION MOUNTED TO THE UNDERSIDE OF THE STRUCTURAL BEAM VIA CONCEALED MARINE GRADE STAINLESS FIXINGS. 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. ENSURE ALL CABLING AND CONDUITS ASSOCIATED WITH THE L7 FITTINGS IS CONCEALED WITHIN THE STRUCTURE.	POWDER COAT THE EXTRUSION TO MATCH THE SUPPORTING STRUCTURE	M-ELEC ML-ALUSUS-K-V3 + ML-VLWP-9.6.-NW	A
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	34W 4000K LED	300 X 1200 LAY IN FLAT PLATE LED FITTING C/W REMOTE DRIVER AND SURFACE MOUNTING KIT	WHITE TRIM	GAMMA ILLUMINATION AXIS 1549-4K-34W C/W SCREW FREE SURFACE KIT	A
L10	28W 4000K LED	600 X 600 LAY IN FLAT PLATE LED FITTING C/W REMOTE DALI DIMMABLE DRIVER MOUNTED IN A SURFACE MOUNTING KIT	BLACK TRIM AND BLACK SURFACE KIT	GAMMA ILLUMINATION PHANTOM 600X600 88 SERIES 28W C/W SCREW FREE SURFACE KIT	F
L11	13W 4000K LED	RECESSED DOWNLIGHT C/W REMOTE DALI DIMMABLE DRIVER	WHITE	GAMMA ILLUMINATION CORBEL 1410-4K-13W	A
L12	28W 4000K LED	600 X 600 LAY IN FLAT PLATE LED FITTING C/W REMOTE DRIVER MOUNTED IN A PLASTER BOARD RECESS KIT	WHITE TRIM	GAMMA ILLUMINATION PHANTOM 600X600 88 SERIES 28W C/W PB RECESS KIT	A
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	20LED 4000K	600 LONG SURFACE MOUNTED IP65 DIFFUSED BATTEN C/W INTEGRAL ELECTRONIC CONTROL GEAR	LIGHT GREY	GAMMA STORM 1557-CCT-20W-MS	A



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L17	13W 3000K LED	RECESSED 52 DEG BEAM DOWNLIGHT C/W REMOTE DRIVER	WHITE TRIM	GAMMA ILLUMINATION COBALT 1402-4K-13W	A
L18	28W 4000K LED	SURFACE MOUNTED 109 DEG BEAM BUNKER C/W INTEGRAL DRIVER	BLACK TRIM	GAMMA ILLUMINATION MAXIMUS 1355-4K-28W	E
L19	RED LED	SURFACE MOUNTED DARK ROOM SAFE LIGHT	BLACK BASE RED DIFFUSER	PHOTO RESOURCE DRSLREDLED	A
L20	RED LED	WALL MOUNTED AT HIGH LEVEL DARK ROOM SAFE LIGHT	BLACK BASE RED DIFFUSER	PHOTO RESOURCE PTP760AULED	A
L21	36W LED 4000K	1200 LONG SURFACE MOUNTED IP65 DIFFUSED BATTEN C/W INTEGRAL ELECTRONIC CONTROL GEAR	LIGHT GREY	GAMMA STORM 1558-CCT-36W	A
L22	42W 4000K LED PER FITTING	6M TAPERED GALVANIZED POLE C/W A CROSS ARM SUPPORTING TWO ADJUSTABLE 23DE G IP65 FITTINGS INCORPORATING INTEGRAL DRIVERS	GALVANIZED POLE SILVER FITTINGS	TWO X GAMMA ILLUMINATION LUMINA 1054-SP-4K-42W	A
L23	60W 4000K LED	WALL MOUNTED AT RL 28. 200 ADJUSTABLE IP65 55 DEG FLOOD C/W INTEGRAL DRIVER	SILVER	GAMMA ILLUMINATION ALTUS 1342-4K	A
L24	880LM /M 3000K 24V LED	LED STRIP LIGHT IN A SCREW FIXED EXTRUSION C/W OPAL DIFFUSER MOUNTED IN THE JOINERY 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 - ML-VLCRI-14.4-WW	E
L25	4000K LED 17.2W/M 24V DC LED STRIP	50MM WIDE RECESSED ALUMINIUM EXTRUSION C/W OPAL DIFFUSER CEILING TRIMS AND A REMOTE DRIVER ENSURE THE DIFFUSER HAS AN UNIFORM APPEARANCE. PROVIDE ADDITIONAL FIXINGS / BRACING WITHIN THE CEILING TO ENSURE THE TWO SIDES OF THE CEILING AS FLUSH / LEVEL WITH EACH OTHER AND THE FITTING	BLACK	FITTING SELECTION BY CONTRACTOR. SUBMIT DETAILS FOR APPROVAL	G
L26	8W 3000K LED	RECESSED ADJUSTABLE DOWNLIGHT C/W REMOTE DRIVER	BLACK	EQUAL TO GAMMA ILLUMINATION MYLO 1004-FL-3K-8W	E
L27	13W 4000K LED	RECESSED 40 DEG BEAM DOWNLIGHT C/W REMOTE DRIVER	BLACK TRIM	GAMMA ILLUMINATION CORBEL 1410-4K-13W	F



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TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
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	F
E3	LED	EMERGENCY LIGHT: RECESSED NON-MAINTAINED EMERGENCY LIGHT. AS2293 CLASSIFICATION C0-D40 - C90-D40. MOUNT THE E3 FITTING IN THE SUSPENDED ACOUSTIC PANEL AND PROVIDE A STRUCTURAL BACKING ABOVE THE ACOUSTIC PANEL	WHITE	STANILITE SF1LEDP	A
E4	LED	EMERGENCY LIGHT: SURFACE MOUNTED NON-MAINTAINED EMERGENCY LIGHT. AS2293 CLASSIFICATION C0-D40 - C90-D40.	WHITE	STANILITE ECOSPITFIREBOX	A
E5	LED	EMERGENCY LIGHT: RECESSED NON-MAINTAINED EMERGENCY LIGHT. AS2293 CLASSIFICATION C0-D40 - C90-D40.	BLACK	STANILITE SF1LEDP BLACK	F
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
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
ROTARY DALI LIGHT SWITCH		ROTARY STANDALONE DALI DIMMER /LIGHT SWITCH C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNTED AT 1000mm AFFL UNLESS NOTED OTHERWISE.	WHITE	CLIPSAL C2000 SERIES C/W SMARTSCAPE AUTOMATION DALI-RD20-M	A



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SWITCH PANEL SPG		GROUND LEVEL MULTIGANG SWITCH PANEL WITH A SEPARATE ADJUSTABLE RUN ON PUSH BUTTONS FOR EACH GROUP OF LIGHTS NOMINATED WITH SP CONTROL. PROVIDE THE RUN ON TIMERS EACH WITH AN ADJUSTMENT RANGE OF 30 MINUTES TO 12 HOURS. PROVIDE THE SWITCH PANEL WITH ENGRAVED LABELLING INDICATING THE USE OF EACH PUSH BUTTON. 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
EMERGENCY SHUT OFF (ESOx)		EMERGENCY SHUT OFF. STAINLESS STEEL FACE PLATE WITH A RED LOCKING MUSHROOM PUSH BUTTON MOUNTED AT 1800 AFFL, TO OPERATE THE EMERGENCY SHUTDOWN. ENGRAVE THE SWITCH FACE PLATE AS PER THE ESO DETAIL CONFIRM THE LOCATION OF THE ESOs ON SITE CAN NOT BE BUMPED DURING NORMAL OPERATION. CONFIGURE THE ESOs IN SERIES TO ISOLATE THE POWER WITHIN THE ASSOCIATED ROOMS. REFER TO THE DISTRIBUTION BOARD SCHEDULE FOR DETAILS OF WHICH CIRCUITS ARE CONTROLLED BY WHICH ESO	STAINLESS STEEL C/W BLACK AND RED ENGRAVING	-	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
SINGLE 10A POWER OUTLET SUSPENDED (SUS)		DOUBLE 10A POWER OUTLET SUSPENDED TO 1600 AFFL UNLESS NOTED OTHERWISE VIA A 3MM STAINLESS STEEL WIRE ROPE.	WHITE	CLIPSAL SS15	C
SINGLE POWER OUTLET (GC)		GAS CONTROL SINGLE POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND. COORDINATE THE POSITION OF THE GC OUTLET ON SITE WITH THE GAS CONTROL SYSTEM INSTALLER.	WHITE	CLIPSAL C2000 SERIES	C
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



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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
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
MSB		EXISTING MAIN SWITCHBOARD TO BE REPLACED AS PER THE POWER SCHEMATIC AND ASSOCIATED NOTES.			D
DB-10		DISTRIBUTION BOARD DB-10. PROVIDE A NEW DISTRIBUTION BOARD DB-10 AS PER THE DB-10 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. DB-10 IS TO CONTAIN THE BUILDING CHA10 SOLAR PV SYSTEM NETWORK PROTECTION EQUIPMENT.			D
DB-10P		PROVIDE A NEW DISTRIBUTION BOARD DB-10P AS PER THE DB-10P 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-10L		PROVIDE A NEW DISTRIBUTION BOARD DB-10L AS PER THE DB-10L 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-10		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 MSSB10.			A
M		SUPPLY AUTHORITY CODE COMPLIANT LV MAXIMUM DEMAND TARIFF METER. TO REMAIN AS IS			A

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TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
M1		EXISTING FAULTY PRIVATE MULTI FUNCTION METER TO BE REPAIRED AND MADE OPERATIONAL			A
CABLE TRAYS		PROVIDE THE CABLE TRAYS WITH A REMOVABLE COLOUR BOND HAT SECTION COVER			A
SECURITY EQUIPMENT		SECURITY EQUIPMENT TO BE PROVIDED BY THE SCHOOL			A
COMMUNICATIONS RACK CR-4		EXISTING COMMUNICATIONS RACK TO BE USED TO ACCOMMODATE THE NEW FIBRE CABLE. UPGRADE THE FIBRE AS REQUIRED.			C
COMMUNICATIONS RACK CR-10		PROVIDE CR-10 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 SC CONNECTORS. PROVIDE CR-7 WITH ALL NECESSARY PATCH PANELS TO ACCOMMODATE THE COMMUNICATIONS OUTLETS.			A
COMMUNICATIONS OUTLET		RJ45 CAT-6 COMMUNICATIONS OUTLET, CABLED BACK TO A CAT 6 PATCH PANEL IN COMMUNICATIONS RACK AS PER THE COMMUNICATIONS ZONE PLAN VIA 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	A
CAT 6A STP COMMUNICATIONS OUTLET		RJ45 CAT-6A STP COMMUNICATIONS OUTLET, CABLED BACK TO A CAT 6 PATCH PANEL IN COMMUNICATIONS RACK CR-23 VIA A 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	H
CABLE ACCESS (A1)		NO LONGER REQUIRED			C
CABLE ACCESS (A2)		NO LONGER REQUIRED			C
CABLE ACCESS (A3)		NO LONGER REQUIRED			C
CABLE ACCESS (A4)		NO LONGER REQUIRED			C
CABLE ACCESS (A5)		PROVIDE CONTROL CABLING FROM THE FUME CUPBOARD CONTROLLER A5 TO THE ROOF MOUNTED VSD DRIVE A6 AND EXTEND THE CONTROLLER POWER SUPPLY TO THE ROOF MOUNTED VSD DRIVE AS PER THE FUME CUPBOARD SCHEMATIC FOR USE BY THE FUME CUPBOARD SUPPLIER. CONFIRM THE LOCATION OF THE CONTROLLER ON SITE WITH THE FUME CUPBOARD SUPPLIER			B
CABLE ACCESS (A6)		PROVIDE CONTROL CABLING FROM THE FUME CUPBOARD ROOF MOUNTED VSD DRIVE A6 TO THE FUME CUPBOARD CONTROLLER A5 AS PER THE FUME CUPBOARD SCHEMATIC FOR USE BY THE FUME CUPBOARD SUPPLIER. CONFIRM THE LOCATION OF THE VSD ON SITE WITH THE FUME CUPBOARD SUPPLIER			B
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

C3232a-0002(J).xls

Pages inc. any attach. 7 of 8



ELECTRICAL DESIGN GROUP

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C3232a - KINGS CHRISTIAN COLLEGE - CHAMBERS FLAT, MIDDLE SCHOOL CHA10

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ELECTRICAL EQUIPMENT SCHEDULE

REVISION J - 08 SEPTEMBER 2025

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
PIT 3		PROVIDE PIT 3 AS A 900 X 900 X 1000 DEEP MIN POWER PIT 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 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.			A
PIT 4		PROVIDE PIT 4 AS A 600 X 600 X 700 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" 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.			A
CONDUIT C1		EXISTING POWER AND COMMUNICATIONS CONDUITS TO REMAIN AS IS AND BE UTILISED TO ACCOMMODATE THE NEW SUBMAINS / FIBRE CABLE.			A
CONDUIT C2		LOCATE AND EXTEND THE EXISTING 6 X 100 DIA POWER CONDUITS UNDERGROUND TO THE POWER PIT 3 AND THE 6 X 50 DIA COMMUNICATIONS CONDUITS UNDERGROUND 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.			A
CONDUIT C3		PROVIDE 6 X 100 DIA POWER CONDUITS UNDERGROUND FROM THE POWER PIT AND 6 X 50 DIA COMMUNICATIONS CONDUITS UNDERGROUND FROM THE COMMUNICATIONS PIT TO A MARKED POSITION 1000MM BEYOND THE HARD SCAPE FOR FUTURE EXTENSION. POSITION THE POWER CONDUITS SUCH THAT THEY HAVE 50MM BETWEEN EACH CONDUIT. CAP ALL OF THE CONDUITS. PROVIDE PHOTOS OF THE CONDUITS IN PLACE PARTIALLY COVERED BY BEDDING SAND PRIOR TO BACK FILLING FOR APPROVAL. LOCATE THE ENDS OF THE CONDUITS ON THE AS BUILD DOCUMENTS DIMENSIONED OFF THE ADJACENT BUILDINGS.			A
PV INVERTER (INV-x)		150KW IP 66 3 PHASE PV INVERTER C/W 5 YEAR REPLACEMENT WARRANTY CONNECTED TO THE PV PANELS. REFER TO THE NOTES FOR ADDITIONAL REQUIREMENTS. PROVIDE DETAILS OF THE PV SYSTEM AND DESIGN FOR APPROVAL. CONNECT THE INVERTER TO THE ENERGEX DENERATION SIGNALLING DEVICE / DEMAND RESPONSE SITE CONTROLLER AS PER THE QECM V4			D
PV SOLAR PANELS		150KW OF PV PANELS C/W GALVANIZED MOUNTING BRACKET. PROVIDE PV PANELS WITH A 10 YEAR PRODUCT WARRANTY AND A 25 YEAR PANEL PERFORMANCE WARRANTY. REFER TO THE NOTES FOR ADDITIONAL REQUIREMENTS.			A
FIP		FIRE INDICATOR PROVIDED AS PART OF THE FIRE ALARM SUB CONTRACT			F



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DISTRIBUTION BOARD DB-10P

REVISION D - 03 JULY 2025

							REV
FAULT CURRENT:		6KA		MAIN SWITCH:		250A NON AUTO LOAD BREAK ISOLATOR	A
CHASSIS SIZE:		96 POLE		SUPPLIED FROM:		DB-10	A
CHASSIS RATING:		250A		SUPPLY CABLE:		4C50	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.							A
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE (mm ²)	LOCATION	CIRCUIT USE	
P1	1	20	RCBO	2.5	GROUND	EXTERNAL GPO	A
P2	1	20	RCBO	2.5	GROUND	EXTERNAL GPO	A
P3	1	20	RCBO	2.5	GROUND	EXTERNAL GPO	A
P4	1	20	RCBO	2.5	GROUND	EXTERNAL 15 A GPO	B
P5	1	20	RCBO	2.5	GROUND	DRINK FOUNTAIN	A
P6	1	32	RCBO	6.0	LEVEL 1	7.1KW HWS	C
P7	1	20	RCBO	2.5	GROUND	HAND DRYER	A
P8	1	20	RCBO	2.5	GROUND	HAND DRYER	A
P9	1	20	RCBO	2.5	LEVEL 1	HAND DRYER	A
P10	3	40	RCBO	6.0	GROUND	3PH 40 AMP	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	STUDIO	A
P14	1	20	RCBO	2.5	LEVEL 1	GLA 1	A
P15	1	20	RCBO	2.5	LEVEL 1	STUDIO	A
P16	1	20	RCBO	2.5	LEVEL 1	CIRCULATION	A
P17	1	20	RCBO	2.5	LEVEL 1	REC	A
P18	1	20	RCBO	2.5	LEVEL 1	DRINK FOUNTAIN	A
P19	1	20	RCBO	2.5	LEVEL 1	CIRCULATION	A
P20	1	20	RCBO	2.5	LEVEL 1	EXTERNAL GPO	A
P21	1	20	RCBO	2.5	LEVEL 1	GLA 2	A
P22	1	20	RCBO	2.5	LEVEL 1	GLA 3	A
P23	1	20	RCBO	2.5	LEVEL 1	LASER CUTTER	A
P24	1	20	RCBO	2.5	LEVEL 1	STORE	A
P25	1	20	RCBO	2.5	LEVEL 1	TECH HUB	A
P26	1	20	RCBO	2.5	LEVEL 1	TECH HUB	A
P27	1	20	RCBO	2.5	LEVEL 1	GLA 4	A
P28	1	20	RCBO	2.5	LEVEL 1	DRINK FOUNTAIN	A
P29	1	20	RCBO	2.5	GROUND	EXTERNAL GPO	A
P30	1	20	RCBO	2.5	LEVEL 2	DRINK FOUNTAIN	A
P31	1	20	RCBO	2.5	LEVEL 2	INSTRUCTION GPO	A
P32	1	20	RCBO ESO5	2.5	LEVEL 2	PREP GPO	B
P33	3	20	RCBO	2.5	LEVEL 2	3 X 3.6KW HWS	B
P34	1	20	RCBO	2.5	LEVEL 2	HAND DRYER	A
P35	1	20	RCBO ESO5	2.5	LEVEL 2	SUS GPO	B
P36	1	20	RCBO	2.5	LEVEL 2	REF	A
P37	1	20	RCBO ESO5	2.5	LEVEL 2	DW PREP GPO	B
P38	1	20	RCBO	2.5	LEVEL 2	FUME CUPBOARD	A
P39	1	20	RCBO ESO3	2.5	LEVEL 2	GLA 1	B
P40	1	20	RCBO ESO3	2.5	LEVEL 2	GLA 2	B
P41	1	20	RCBO ESO3	2.5	LEVEL 2	GLA 1	B
P42	1	20	RCBO ESO4	2.5	LEVEL 2	GLA 2	B
P43	1	20	RCBO ESO4	2.5	LEVEL 2	GLA 2	B
P44	1	20	RCBO ESO4	2.5	LEVEL 2	GLA 2	B
P45	1	20	RCBO	2.5	LEVEL 2	DRINK FOUNTAIN	A
P46	1	20	RCBO	2.5	LEVEL 2	CIRCULATION	A
P47	1	20	RCBO	2.5	LEVEL 2	GLA 3	A
P48	1	20	RCBO ESO2	2.5	LEVEL 2	LAB 2	B

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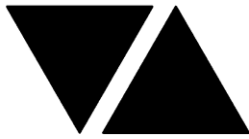
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DISTRIBUTION BOARD DB-10P

REVISION D - 03 JULY 2025

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C3232a - KINGS CHRISTIAN COLLEGE - CHAMBERS FLAT, MIDDLE SCHOOL CHA10

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DISTRIBUTION BOARD DB-10L

REVISION C - 01 APRIL 2025

FAULT CURRENT: 6KA CHASSIS SIZE: 60 POLE CHASSIS RATING: 250A PHASES: 3							REV
MAIN SWITCH: 250A NON AUTO LOAD BREAK ISOLATOR SUPPLIED FROM: DB-10 SUPPLY CABLE: 4C25							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	
1	1	20	RCBO	2.5	GROUND	PLANT LIGHTING	A
2	1	20	RCBO	2.5	GROUND	AMENITY LIGHTING	A
3	1	20	RCBO	2.5	GROUND	COVERED AREA LIGHTING	A
4	1	20	RCBO	2.5	GROUND	COVERED AREA LIGHTING	A
5	1	20	RCBO	2.5	GROUND	COVERED AREA LIGHTING	A
6	1	20	RCBO	2.5	GROUND	COVERED AREA LIGHTING	A
7	1	20	RCBO PE ON DUSK TC OFF 10.00PM	2.5	EXTERNAL	LIGHTING	A
8	1	20	RCBO PE ON DUSK TC OFF 10.00PM	2.5	EXTERNAL	LIGHTING	A
9	1	20	RCBO PE ON DUSK TC OFF 10.00PM	2.5	EXTERNAL	LIGHTING	A
10	1	20	RCBO PE ON DUSK TC OFF 10.00PM	2.5	EXTERNAL	LIGHTING	A
11	1	20	RCBO	2.5	LEVEL 1	PLANT LIGHTING	A
12	1	20	RCBO	2.5	LEVEL 1	AMENITY LIGHTING	A
13	1	20	RCBO	2.5	LEVEL 1	STUDIO LIGHTING	A
14	1	20	RCBO	2.5	LEVEL 1	GLA 1 LIGHTING	A
15	1	20	RCBO	2.5	LEVEL 1	CIRC LIGHTING	A
16	1	20	RCBO	2.5	LEVEL 1	GLA 2 LIGHTING	A
17	1	20	RCBO	2.5	LEVEL 1	GLA 3 LIGHTING	A
18	1	20	RCBO	2.5	LEVEL 1	TECH HUB LIGHTING	A
19	1	20	RCBO	2.5	LEVEL 1	GLA 4 LIGHTING	A
20							C
21	1	20	RCBO PE ON DUSK TC OFF 10.00PM	2.5	LEVEL 2	EXTERNAL LIGHTING	A
22	1	20	RCBO	2.5	LEVEL 2	PLANT LIGHTING	A
23	1	20	RCBO	2.5	LEVEL 2	AMENITY LIGHTING	A
24	1	20	RCBO	2.5	LEVEL 2	PREP LIGHTING	A
25	1	20	RCBO	2.5	LEVEL 2	GLA 1 LIGHTING	A
26	1	20	RCBO	2.5	LEVEL 2	GLA 2 LIGHTING	A
27	1	20	RCBO	2.5	LEVEL 2	CIRC LIGHTING	A
28	1	20	RCBO	2.5	LEVEL 2	CIRC LIGHTING	A
29	1	20	RCBO	2.5	LEVEL 2	GLA 3 LIGHTING	A
30	1	20	RCBO	2.5	LEVEL 2	LAB2 LIGHTING	A
31	1	20	RCBO	2.5	LEVEL 2	LAB 1 LIGHTING	A
32	1	20	RCBO	2.5	LEVEL 2	CIRC LIGHTING	A
33	1	20	RCBO PE ON DUSK TC OFF 10.00PM	2.5	EXTERNAL	POLE LIGHTS	A
34	1	20	RCBO PE ON DUSK TC OFF 10.00PM	2.5	EXTERNAL	WALL LIGHTS	A
35	1	20	RCBO PE ON DUSK OFF DAWN	2.5	EXTERNAL	SECURITY LIGHTS	A

LEGEND

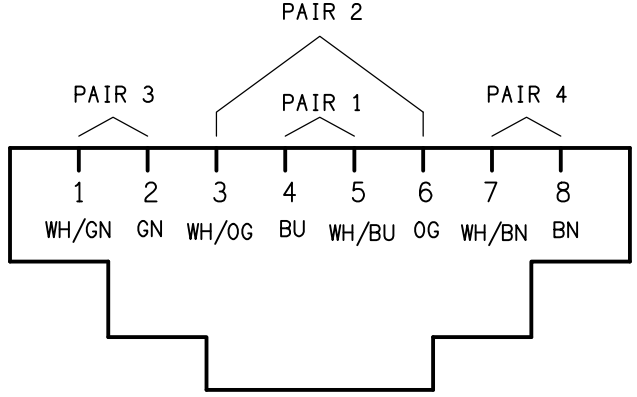
	ELECTRICAL SERVICES SWITCHBOARD.
	SWITCHBOARD / CONTROL PANEL NOT PROVIDED AS PART OF THE ELECTRICAL SUBCONTRACT.
	SINGLE POWER OUTLET.
	DOUBLE POWER OUTLET.
	SPECIAL PURPOSE POWER OUTLET.
	CABLE ACCESS, TYPE AS NOTED.
	SINGLE PHASE ISOLATOR.
	THREE PHASE ISOLATOR.
	JUNCTION BOX AS NOTED.
	ELECTRICAL CABLE TRAY, TYPE AS NOTED.
	CONDUIT ROUTE.
	x DENOTES CONDUIT TYPE.
	ELECTRICAL PIT, TYPE AS NOTED.
	HAND DRYER CONNECTION.
	EMERGENCY POWER SHUT OFF.
	LIGHTING PRESENCE DETECTOR SWITCH.
	ONE-WAY LIGHT SWITCH.
	ONE-WAY DIMMER 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.
	OUTLET MOUNTED WITHIN RECESS KIT.
	CAT-6 UTP RJ45 COMMUNICATIONS OUTLET.
	CAT-6A STP RJ45 COMMUNICATIONS OUTLET.
	FIRE INDICATOR PANEL.
	REFER TO DETAIL NOTED FOR THE AREA SHOWN HATCHED. ADDITIONAL OUTLETS & FITTINGS MAY BE SHOWN ON DETAIL.
	GAS CONTROL POWER SUPPLY.
	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.

LEGEND

	RETAIL METER.
	PRIVATE MULTI FUNCTION METER.
	SOLAR NETWORK PROTECTION CTs.
	SOLAR NETWORK PROTECTION SMART METER (WIRELESS).
	SOLAR NETWORK PROTECTION WIRELESS TRANSCEIVER.
	SOLAR NETWORK PROTECTION GRID SIGNALLING DEVICE.
	SOLAR NETWORK PROTECTION RELAY WIRELESS.
	MANUAL TRANSFER SWITCH.
	E1: RECESSED LED EMERGENCY LIGHT, WHITE.
	E2: CUSTOM SURFACE CAN MOUNTED LED EMERGENCY LIGHT, BLACK.
	E3: ACCOUSTIC PANEL RECESSED LED EMERGENCY LIGHT, WHITE.
	E4: SURFACE LED EMERGENCY LIGHT, WHITE.
	E5: RECESSED LED EMERGENCY LIGHT, BLACK.
	EX: EMERGENCY LED EXIT LIGHT, WHITE.
	Lx: LIGHT FITTING C/W NON-MAINTAINED EMERGENCY BATTERY PACK. TYPE AS NOTED.
	L1: SURFACE TUBE LIGHT, CUSTOM DROP LENGTH.
	L2: ROD SUSPENDED EXTRUSION LIGHT, LENGTH AS NOTED.
	L3: ROD SUSPENDED EXTRUSION LIGHT, 1000 LONG.
	L4: ROD SUSPENDED EXTRUSION LIGHT, 1000 LONG.
	L5: SURFACE EXTRUSION LIGHT, 2000 LONG.
	L6: RECESSED DOWNLIGHT.
	L7: SURFACE EXTRUSION LIGHT, 5000 LONG.
	L8: 600 x 600 SURFACE MOUNTED FLAT PLATE FITTING.
	L9: 300 x 1200 SURFACE MOUNTED FLAT PLATE FITTING.
	L10: 600 x 600 SURFACE MOUNTED FLAT PLATE FITTING, DIMMABLE.
	L11: RECESSED DOWNLIGHT.
	L12: 600 x 600 RECESSED FLAT PLATE FITTING.
	L13: RECESSED DOWNLIGHT.
	L14: RECESSED DOWNLIGHT.
	L15: 1200 LONG SURFACE IP65 BATTEN C/W PRESENCE SENSOR.
	L16: 600 LONG SURFACE IP65 BATTEN.
	L17: RECESSED DOWNLIGHT.
	L18: SURFACE DOWNLIGHT.
	L19: SURFACE DARK ROOM SAFE LIGHT.
	L20: WALL MOUNTED DARK ROOM SAFE LIGHT.
	L21: 1200 LONG SURFACE IP65 BATTEN.
	L22: 6m HIGH POLE WITH TWO ADJUSTABLE IP65 LIGHT FITTINGS.
	L23: WALL MOUNTED AT RL 28.200 ADJUSTABLE IP65 FLOOD LIGHT.
	L24: JOINERY LED STRIP LIGHT.
	L25: CEILING FEATURE RECESSED LED EXTRUSION.
	L26: JOINERY RECESSED DOWNLIGHT.
	L27: RECESSED DOWNLIGHT, BLACK.

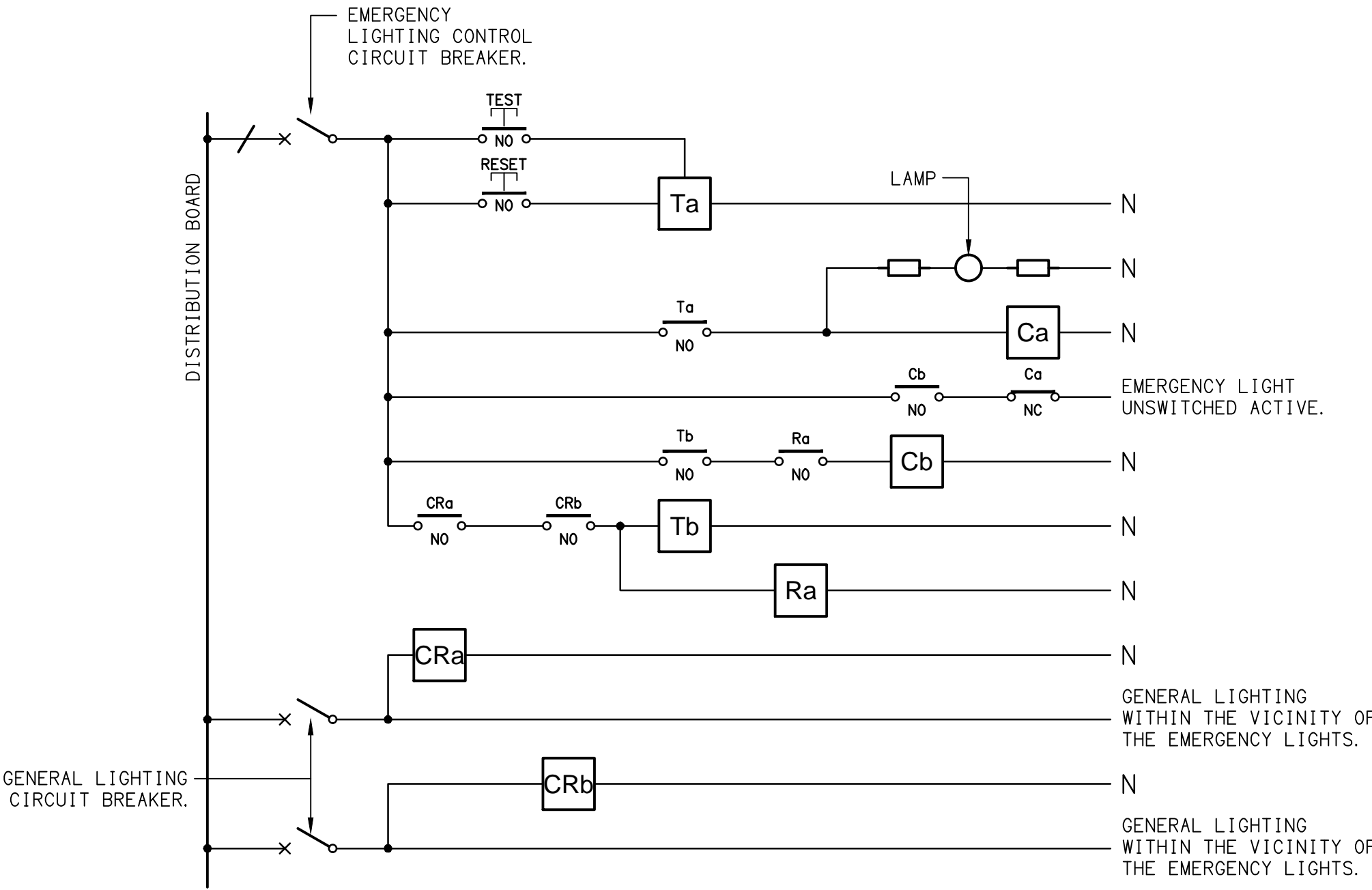
EQUIPMENT:

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.



SCHEMATIC

RJ45 PINOUT CONFIGURATION
NOT TO SCALE

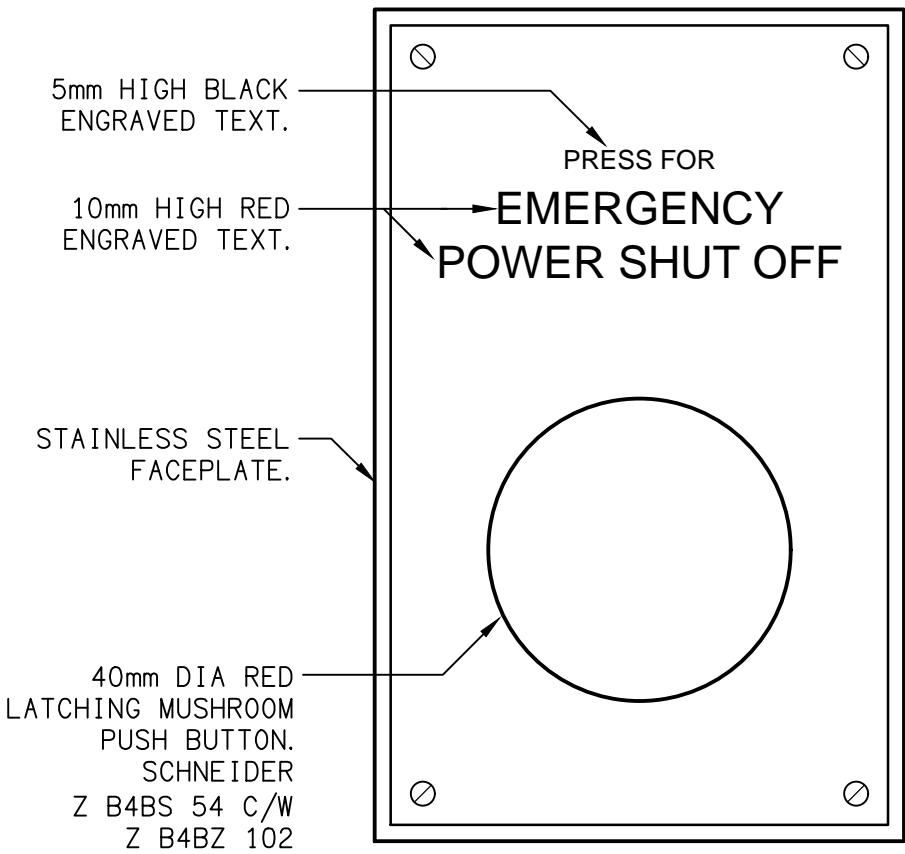


NOTES

- 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.

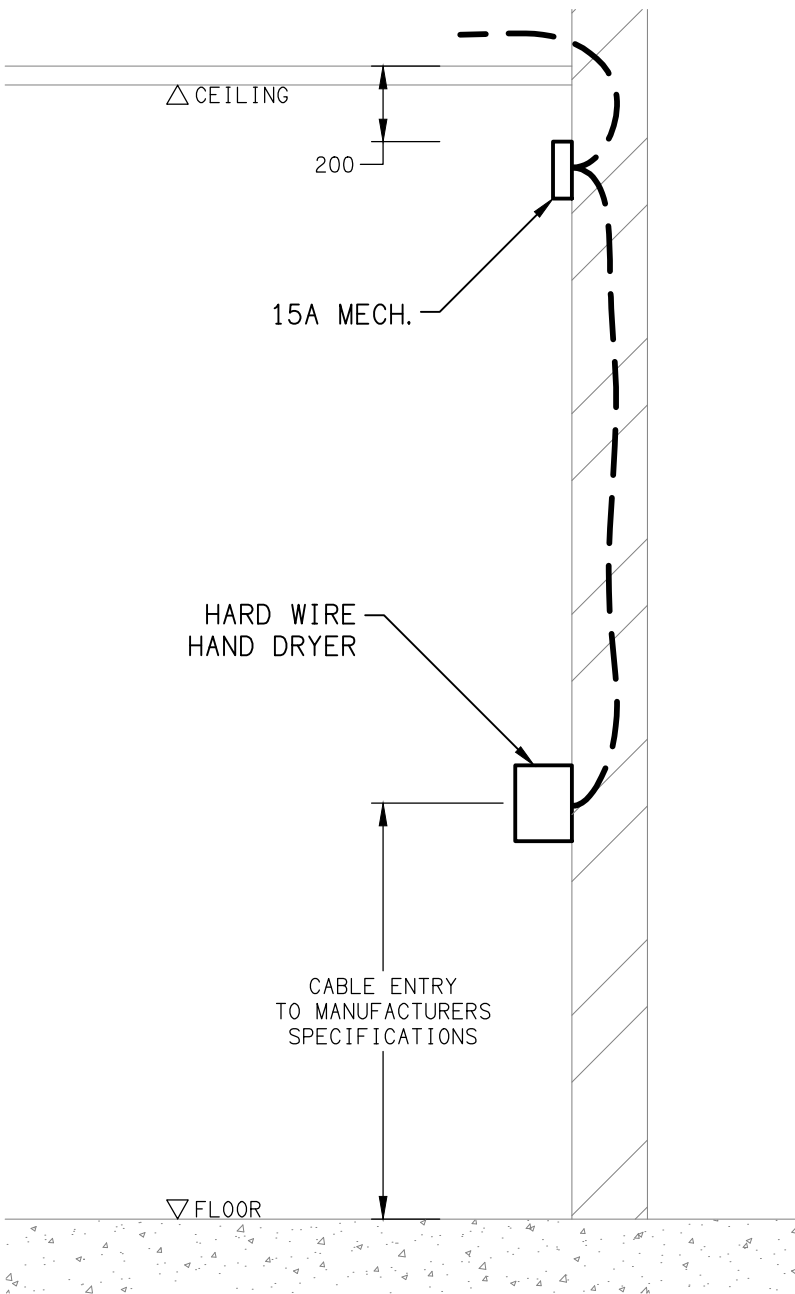
SCHEMATIC

EMERGENCY LIGHTING
NOT TO SCALE



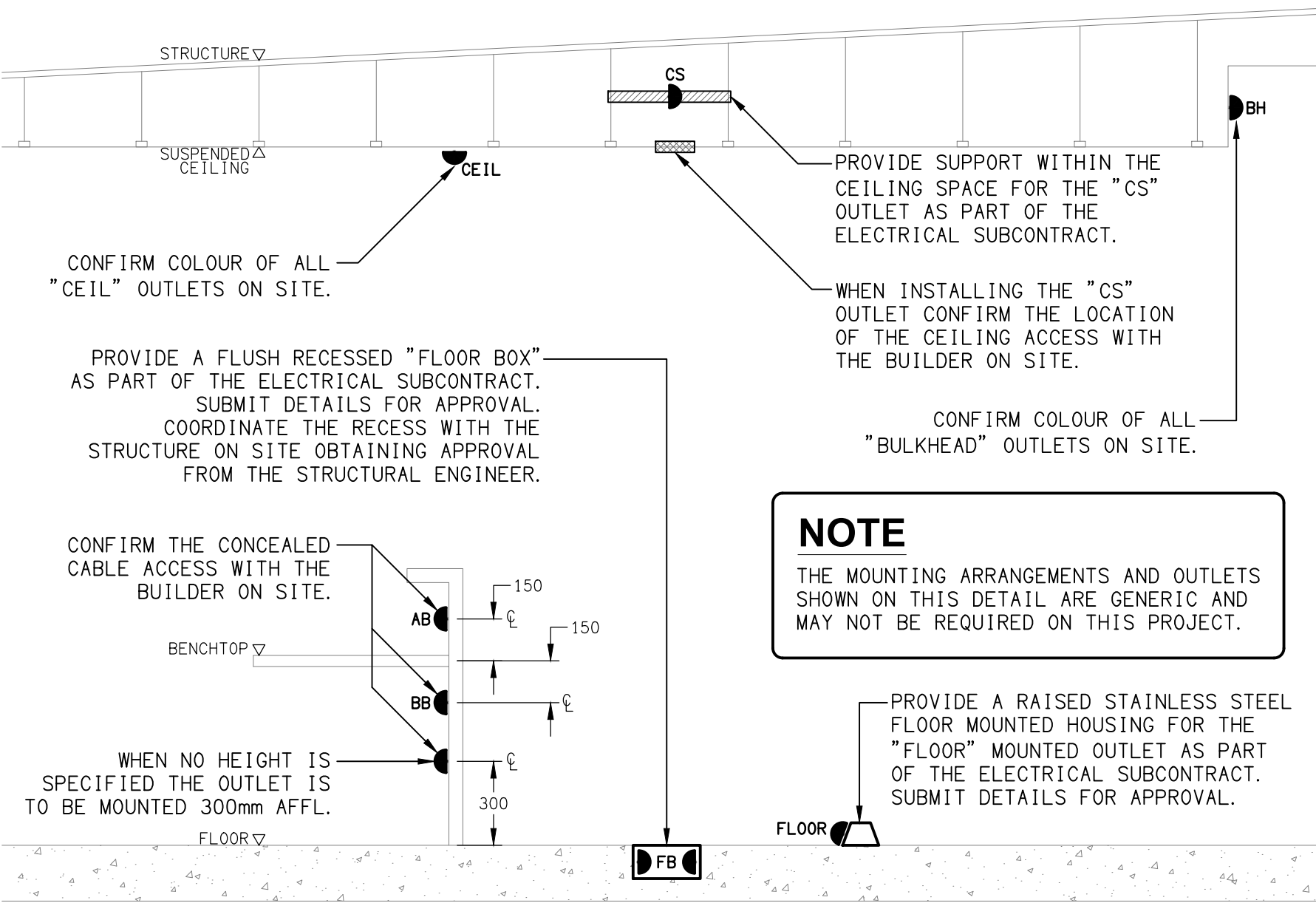
DETAIL

EMERGENCY POWER SHUT OFF (ESO)
NOT TO SCALE



DETAIL

HAND DRYER CONNECTION
NOT TO SCALE



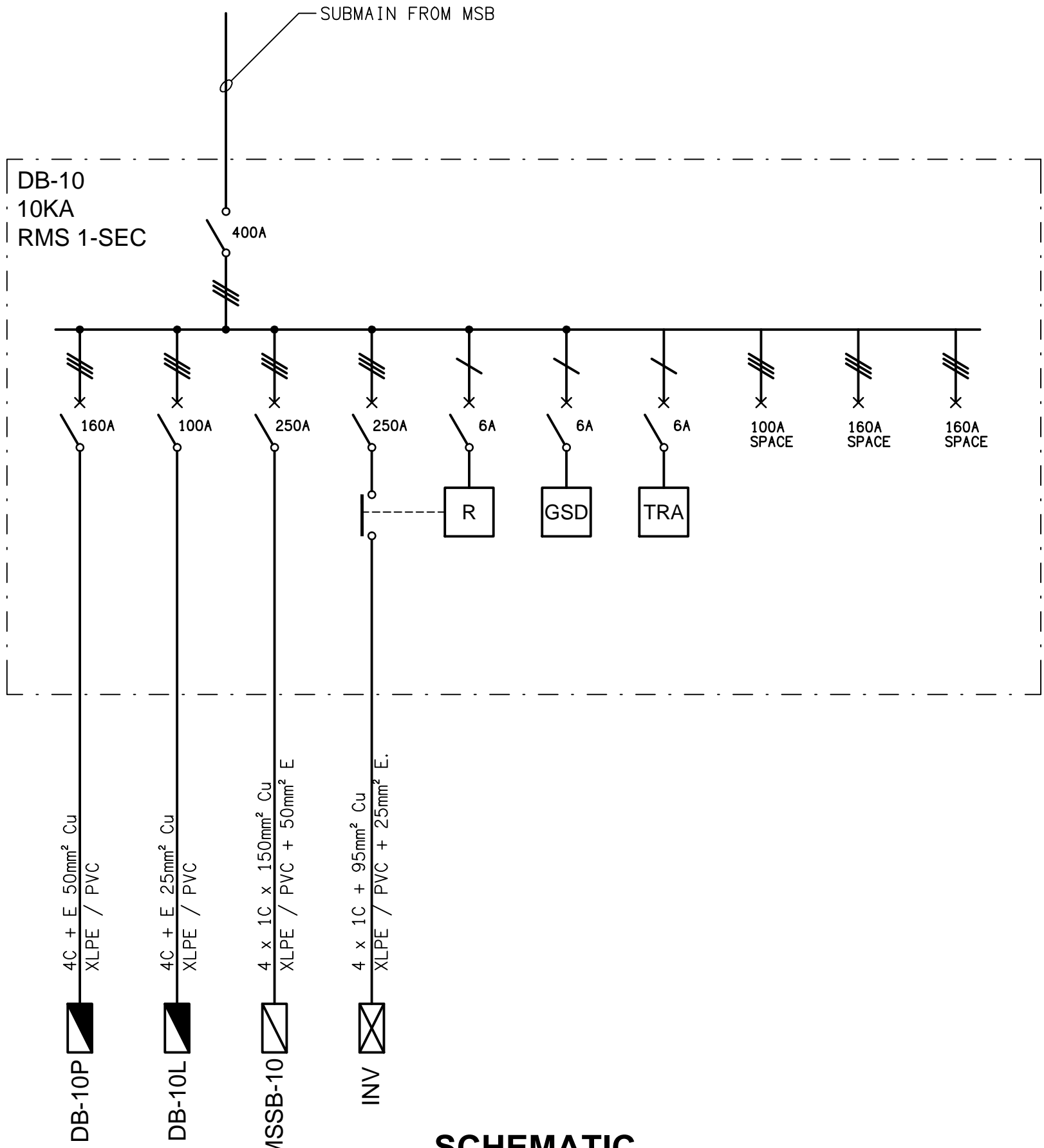
NOTE

THE MOUNTING ARRANGEMENTS AND OUTLETS SHOWN ON THIS DETAIL ARE GENERIC AND MAY NOT BE REQUIRED ON THIS PROJECT.

DETAIL

TYPICAL OUTLET MOUNTINGS
NOT TO SCALE

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	USE FIGURED DIMENSIONS IN PREFERENCE TO SCALE.			38-112 ANZAC AVENUE, CHAMBERS FLAT	SCALE: NOT TO SCALE AT A1	PROJECT NO: C3232a	DRAWING NO: E01	REVISION: G
	ALL DIMENSIONS TO BE VERIFIED ONSITE.							



SCHEMATIC
DB-10 ARRANGEMENT
NOT TO SCALE

FOR MORE DETAILED POWER SCHEMATICS
REFER TO DRAWINGS E12 AND E13.

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ELECTRICAL DESIGN GROUP
ELECTRICAL BUILDING SERVICES CONSULTANTS
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PROJECT:
KINGS CHRISTIAN COLLEGE
CHAMBERS FLAT, MIDDLE SCHOOL CHA10

38-112 ANZAC AVENUE, CHAMBERS FLAT

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DRAWING: ELECTRICAL SERVICES SCHEMATICS		
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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.
- PITS AND CONDUITS.
- 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 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 PROJECT MANAGER FOR CLARIFICATION PRIOR TO THE PLACING OF ORDERS, FABRICATION OR INSTALLATION OF THE ITEMS/METHODS IN DISCREPANCY.

- NCC BUILDING CODE OF AUSTRALIA.
- ELECTRICITY ACT.
- ELECTRICAL SAFETY ACT.
- AS/NZS3000.
- AS3008.
- WORKPLACE HEALTH AND SAFETY ACT.
- TELECOMMUNICATIONS ACT.
- ACMA REQUIREMENTS.

4. AUTHORITIES

ENSURE ALL OF THE ELECTRICAL SERVICES COMPLY WITH THE REQUIREMENTS OF ALL REGULATORY AUTHORITIES HAVING JURISDICTION OVER THE SITE INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
- ACMA.
- LOCAL COUNCIL.
- LOCAL SUPPLY AUTHORITY.
- STATE GOVERNMENT WORKPLACE, HEALTH AND SAFETY AUTHORITY.
- LOCAL 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 2.5mm² 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.

6. POWER DISTRIBUTION

THE POWER DISTRIBUTION COMPONENT OF THIS CONTRACT INCLUDES UPGRADING THE EXISTING MSB AND THE PROVISION OF NEW UNDERGROUND SUBMAINS TO A NEW DISTRIBUTION BOARD DB-10. PROVIDE DB-10 WITH MCCBS TO SUPPLY THE NEW DISTRIBUTION BOARD DB-10P AND DB-10L, THE MECHANICAL SWITCHBOARD MSSB-10 AND A 150kW INVERTER. PROVIDE A 150kW SOLAR PV INSTALLATION INCLUDING A WIRELESS NETWORK PROTECTION SYSTEM TO ALLOW THE SITES SOLAR INSTALLATION TO BE INCREASED TO 650KW. THE ELECTRICAL COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:
- POWER DISTRIBUTION.
- EARTHING.
- UPGRADE MSB.
- NEW SUBMAINS FROM THE MSB TO DB-10.
- DISTRIBUTION BOARDS DB-10, DB-10P AND DB-10L.
- SUBMAINS FROM DB-10 TO DB-10P, DB-10L, MSSB-10 AND THE INVERTER.
- PROVIDE A 150KW SOLAR PHOTOVOLTAIC SYSTEM IN ACCORDANCE WITH AS5033 WITH THE PV INSTALLATION UNDERTAKEN BY AN ACCREDITED INSTALLER MEMBER OF THE CLEAN ENERGY COUNCIL.
- 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 RECORDED 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 MSB IS TO BE UPGRADED DURING 2025 2026 SUMMER SCHOOL HOLIDAYS.

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.

NOTES

6. POWER DISTRIBUTION (CONTINUED)

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.

PROVIDE PV PANELS WITH AN EFFICIENCY IN EXCESS OF 20% AND A MANUFACTURERS 15-YEAR PRODUCT WARRANTY AND A PERFORMANCE WARRANTY GUARANTEEING 80% OF THE PANELS RATED OUTPUT AFTER 25 YEARS. PROVIDE AN INVERTER THAT HAS A W1 F1 INTERNET CONNECTION, LOSS OF LESS THAN 5% AND A MANUFACTURERS PRODUCT WARRANTY OF 5 YEARS. PROVIDE THE PV SYSTEM DC AND AC CABLING THAT HAS A LOSS LESS THAN 3%. PROVIDE SHOP DRAWINGS AND TECHNICAL DETAILS OF THE PV SYSTEM INCLUDING ALL COMPONENTS AND THE PV PANEL LAYOUT FOR APPROVAL.

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, LAMP 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.
- 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. LIGHT POLES

PROVIDE POLES WITH A TAMPER RESISTANT ACCESS PANEL WITHIN THE POLE BASE AND BASE PLATE THAT INCORPORATES A MINIMUM OF FOUR HOLD DOWN BOLTS. PROVIDE POLES AND INSITU CONCRETE FOOTINGS DESIGNED SPECIFICALLY TO SUIT THE LOCAL CONDITIONS AND BE ABLE TO WITHSTAND WIND GUSTS OF 150KM/H. THE DESIGN OF THE POLE AND THE FOOTING IS TO BE UNDERTAKEN BY A RESISTED STRUCTURAL ENGINEER. PROVIDE A CERTIFICATE FROM THE STRUCTURAL ENGINEER INDICATING THE POLES AND FOOTINGS MEET THE SPECIFIED DESIGN CRITERIA. PROVIDE DETAILED DRAWINGS OF ALL POLES AND FOOTINGS FOR APPROVAL. PROVIDE A FUSED CONNECTION WITHIN EACH POLE LOCATED BEHIND THE POLE BASE ACCESS PANEL. CONNECT THE POLE TO THE ELECTRICAL EARTH VIA A LUG FIXED TO A STUD WELDED TO THE POLE LOCATED WITHIN THE POLE LOCATED BEHIND THE POLE BASE ACCESS PANEL. TRIM THE HOLD DOWN BOLTS SUCH THAT THEY DO NOT PROTRUDE MORE THAN 15MM ABOVE THE NUT. TREAT THE TRIMMED HOLD DOWN BOLT AGAINST CORROSION AND ENSURE IT DOES NOT CONTAIN SHARP EDGES THAT REPRESENT A HAZARD. ENSURE THE BASE PLATE IS BETWEEN 50 AND 100MM ABOVE THE FINISHED LANDSCAPE LEVEL. PROVIDE A NEAT SMOOTH FINISHED CONCRETE GROUT FILL UNDER THE BASE PLATE ENSURING ANY SPLATTER IS IMMEDIATELY WASHED OFF THE BASE PLATE AND POLE. EXTEND THE CONDUIT INTO THE POLE 50MM ABOVE THE BASE PLATE.

PROVIDE POLES THAT COMPLY WITH AS/NZS 1170.0 STRUCTURAL DESIGN ACTIONS PART 0: GENERAL PRINCIPLES - IMPORTANCE LEVEL 1 WITH A DESIGN WORKING LIFE OF 50 YEARS.

DESIGN THE POLES TO A WIND LOADING AS PER AS/NZS 1170.0 STRUCTURAL DESIGN ACTIONS PART 0: GENERAL PRINCIPLES. THE FRACTION OF CRITICAL DAMPING IS TO BE TAKEN AS 0.05 (ULTIMATE) AND 0.01 (SERVICEABILITY) FOR POLES WITH MORE THAN TWO- (2) OVERLAPS AND 0.02 (ULTIMATE) AND 0.005 (SERVICEABILITY) FOR ALL OTHERS. THE NATURAL FREQUENCY OF THE POLE IS TO BE CALCULATED CONSIDERING VARYING DIAMETERS AND THICKNESS OVER THE HEIGHT OF THE POLE AND USING A 1.1 SAFETY FACTOR FOR THE MASS AT THE TOP OF THE POLE. ENSURE POLE DEFLECTION AT SERVICEABILITY WIND SPEEDS HAVE A DEFLECTION LESS THAN 6.7%.

ENSURE ALL WELDS ARE BY A CONTINUOUS AUTOMATIC GAS SHIELDED ELECTRIC ARC PROCESS COMPLYING WITH THE RELEVANT PARTS OF AS/NZS 1554 STRUCTURAL STEEL WELDING. ENSURE THE LONGITUDINAL SEAM WELDS ON POLE SECTIONS CONFORMS TO GP STANDARDS WHILE BASEPLATE AND SPIGOT WELDS MUST CONFORM TO SP STANDARDS AS MENTIONED IN AS/NZS 1554. WELD SIZES ARE TO BE VERIFIED BY A QUALIFIED STRUCTURAL ENGINEER AND SPECIFIED IN THE ENGINEERING REPORT AND ON WORKSHOP DRAWINGS.

PROVIDE ALL POLES WITH A GALVANISED FOUNDATION BOLT ASSEMBLY COMPLETE WITH POSITIONING TEMPLATE AND TWO- (2) NUTS AND WASHERS PER BOLT PROVIDED TO SUIT THE POLE BASEPLATE. FOUNDATION BOLTS MUST BE MANUFACTURED FROM DEFORMED REINFORCING BARS WITH A NOMINAL YIELD STRESS OF 500 MPA. PROVIDE BOLTS THREADED IN ACCORDANCE WITH AS1275-1985 METRIC SCREW THREADS FOR FASTENERS AND FITTED WITH CLASS 5 NUTS IN ACCORDANCE WITH AS/NZS 1112 ISO METRIC HEXAGON NUTS. FOUNDATION BOLTS MUST BE TIED TO A SUITABLE REINFORCING CAGE. THE LENGTH OF EACH FOUNDATION BOLT MUST ALLOW FOR THE LENGTH OF THE THREAD ABOVE GROUND, A MINIMUM OF 100MM COVER AND A DEVELOPMENT LENGTH IN ACCORDANCE WITH AS3600-1994 CONCRETE STRUCTURES, TABLE 13.1.2.2(A). THE UNDERSIDE OF THE BASEPLATE IS TO BE GROUDED. THE SECTION CAPACITY OF THE POLE IS TO BE ANALYSED OVER A MINIMUM OF 100 INCREMENTS ACCORDING TO AS4100 STEEL STRUCTURES AND AS/NZS 4600 COLD-FORMED STEEL STRUCTURES. LUMINAIRES ARE TO BE ACCESSSED BY EXTERNAL MACHINERY E.G. CHERRY PICKERS. LUMINAIRE CROSSARMS SHALL BE DESIGNED TO ENSURE EASY ACCESS OF FITTINGS FOR RE-LAMPING AND AIMING. CLIMBING RUNGS AND MAINTENANCE PLATFORMS ARE NOT REQUIRED. THE POLE AND ALL STEEL ACCESSORIES ARE TO BE POWDER COATED BLACK HOT DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH AS/NZS 4680 HOT-DIP GALVANIZED (ZINC) COATINGS ON FABRICATED FERROUS ARTICLES. THE POLES ARE TO BE SANDED AFTER GALVANIZING AND PREHEATED TO 220°C TO DRIVE OFF ANY TRAPPED GAS UNDER THE GALVANIZED SURFACE. A ZINC RICH PRIME COAT INTERPON POLYZINC 660 OR EQUIVALENT SHALL BE APPLIED TO WITHIN 60UM AND 80UM WITHIN FOUR HOURS OF PREHEATING AND GREEN CURED TO 200°C FOR 3 MINUTES. PRIME COAT SHALL BE LIGHTLY SANDED BEFORE APPLICATION OF TOP COAT. COLOUR TOPCOAT SHALL BE A RIPPLE, HIGH BUILD FINISH TO WITHIN 50UM AND 70UM. ENSURE ALL MANUFACTURING TOLERANCES ARE IN ACCORDANCE WITH AS 1798 LIGHTING POLES AND BRACKET ARMS PREFERRED DIMENSIONS. IN PARTICULAR THE POLES SHALL BE CHECKED FOR COMPLIANCE WITH THE STRAIGHTNESS REQUIREMENTS OF THIS STANDARD: 0.3% OF HEIGHT.

ASSEMBLY AND ERECTION ARE TO BE CARRIED OUT ONLY BY QUALIFIED RIGGING PERSONNEL. GROUT THE UNDERSIDE OF ALL POLE BASEPLATES WITHIN SEVEN (7) DAYS OF INSTALLING THE POLE.

NOTES

9. 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 A NEW 12 CORE OS1 GEL FILLED UNDERGROUND OPTICAL FIBRE CABLE FROM THE EXISTING COMMUNICATIONS RACK CR-4 TO A NEW FIBOT IN CR-10. THE COMMUNICATIONS CABLING IS TO BE OF THE SAME EXISTING STRUCTURED CABLING SOLUTION USED AND BE PROVIDED WITH A MANUFACTURERS 15 YEAR WARRANTY.

THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:
- CAT 6 COMMUNICATIONS OUTLETS.
- CAT 6 CABLING.
- COMMUNICATIONS RACK CR-10.
- PATCH PANELS.
- FIBOT.
- OPTICAL FIBRE CABLE CONNECTION CR-4 TO CR-10.
- LABELLING.
- TESTING AND COMMISSIONING.

ALL COMMUNICATIONS CABLING IS TO BE UNDERTAKEN BY AN ACMA LICENCE HOLDER. THE PATCH LEADS, FLY LEADS, POE SWITCH AND UPS WILL BE PROVIDED BY THE SCHOOL.

10. PITS AND CONDUITS

THE NEW UNDERGROUND PIT AND CONDUITS MUST BE INSTALLED AND THE EXISTING SERVICES TO THE EXISTING MODULAR BUILDINGS RELOCATED THROUGH THE NEW PIT AND CONDUITS. THIS WORK MUST BE COMPLETE TO FACILITATE DEMOLITION OF THE EXISTING PIT AND CONDUITS IN THE VICINITY OF THE PROPOSED BUILDING PRIOR TO ANY EXCAVATION.

THE CONDUITS AND PITS DETAILED WITHIN THE ELECTRICAL SERVICES DOCUMENTATION HAVE BEEN INCLUDED AS THERE ARE SPECIFIC REQUIREMENTS THAT NEED TO BE ACCOMMODATED AND DO NOT COVER EVERY REQUIREMENT NECESSARY TO COMPLETE THE INSTALLATION. THE ELECTRICAL-SUB CONTRACTOR MUST ALLOW FOR ALL ADDITIONAL PITS AND CONDUITS NECESSARY TO COMPLETE THE ELECTRICAL INSTALLATION.

UNDER NO CIRCUMSTANCES ARE BURIED DIRECT CABLES PERMITTED. RESTORE AREAS OUTSIDE THE LIMITS OF THE WORKS, WHICH HAVE BEEN DISTURBED BY THE WORKS, TO THEIR ORIGINAL CONDITION ON COMPLETION OF THE EXCAVATION. REINSTATE SURFACES TO THEIR ORIGINAL LEVEL WITHOUT SUBSIDENCE AND WITHOUT CRACKING AT JUNCTIONS WITH EXISTING SURFACES. RESTORE PAVEMENTS TO MATCH EXISTING. RE TURF ALL LAWN AREAS AFFECTED BY THE WORKS.

PROVIDE A REINFORCED PLASTIC, 150MM WIDE, UNDERGROUND, YELLOW OR ORANGE COLOURED MARKING TAPE WITH THE WORDS 'WARNING - ELECTRIC CABLES BURIED BELOW' OR SIMILAR ABOVE ALL UNDERGROUND CONDUITS AT A DEPTH OF 200MM BELOW GROUND LEVEL FOR THE ENTIRE LENGTH OF ALL UNDERGROUND CONDUITS.

PROVIDE ALL TRENCHING, BEDDING, BACKFILLING AND REINSTATEMENT REQUIRED TO COMPLETE THE ELECTRICAL SERVICES.

INSTALL ALL UNDERGROUND CONDUITS 500MM BELOW GROUND LEVEL AND PROVIDE EACH CONDUIT WITH A SPARE POLYPROPYLENE DRAW CORD.

PROVIDE A MINIMUM SURROUNDING OF 75MM CLEAN SAND AROUND CABLES AND CONDUITS INSTALLED UNDERGROUND.

SEAL THE BURIED ENTRIES TO DUCTS AND CONDUITS WITH A PLIABLE NON SETTING WATERPROOF COMPOUND. SEAL SPARE DUCTS OR CONDUITS IMMEDIATELY AFTER INSTALLATION, AND SEAL THE OTHER AFTER THE CABLE INSTALLATION.

INSTALL ALL CONDUITS EITHER STRAIGHT OR WITH LARGE RADIUS SWEEPING BENDS WITH A RADIUS 40 TIMES THE DIAMETER OF THE CONDUIT. ALL CONDUITS MUST BE INSTALLED IN SUCH A MANNER TO ALLOW SIMPLE REMOVAL AND INSTALLATION OF ADDITIONAL CABLES FOLLOWING THE COMPLETION OF THE PROJECT. IN CASES WHERE MULTIPLE CONDUITS HAVE BEEN SPECIFIED, INSTALL ALL INITIAL CABLING WITHIN THE FIRST CONDUIT. WRITTEN APPROVAL MUST BE OBTAINED FROM THE ENGINEER PRIOR TO INSTALLING ANY CABLING IN THE SUBSEQUENT CONDUITS. WHERE UNDERGROUND CONDUIT RISE ABOVE GROUND, ENSURE THEY RISE VERTICALLY AND THEY ARE PROTECTED AT GROUND LEVEL BY A CONCRETE PLINTH EXTENDING 250MM BELOW GROUND, 100MM ABOVE GROUND. THE PLINTH IS TO EXTEND IN EACH DIRECTION BEYOND THE CONDUITS MORE THAN THREE TIMES THE DIAMETER OF THE LARGEST CONDUIT OTHER THAN THE SIDE OF THE PLINTH / CONDUIT THAT IS AGAINST A STRUCTURE. PROVIDE THE PLINTH WITH A FALL SUCH THAT WATER DOES NOT POOL AGAINST THE CONDUIT OR THE ADJACENT STRUCTURE.

PROVIDE DRAW IN PITS AS REQUIRED TO COMPLETE THE ELECTRICAL SERVICES INSTALLATION AND TO ALLOW ALL UNDERGROUND CABLING TO BE REMOVED AND REINSTALLED AFTER THE INSTALLATION IS COMPLETE. IRRESPECTIVE OF THE NUMBER OF PITS SHOWN ON THE DRAWINGS, PROVIDE ALL PITS NECESSARY TO COMPLETE THE ELECTRICAL INSTALLATION. ALL SIZES SHOWN REFER TO THE INSIDE DIMENSIONS AND ARE GIVEN AS AN ABSOLUTE MINIMUM.

WHERE INFILL LIDS ARE NOMINATED PROVIDE LIDS WITH A MINIMUM OF 50MM DEPTH TO ACCOMMODATE THE INFILL MATERIAL. ENSURE THE INFILL SECTION HAS REINFORCING WELDED TO THE PIT LID TO ALLOW PERMANENT BONDING OF THE INFILL MATERIAL TO THE LID. INFILL THE PIT LID TO THE SAME FINISH AS THE SURROUNDING HARDSCAPE.

ALL PITS ARE TO BE PROVIDED WITH KEYHOLES TO POSITIVELY LOCATE THE KEYS, AND ARE FITTED WITH PLASTIC PLUGS TO PREVENT ENTRY OF DIRT. ENSURE ALL PIT LIDS ARE CAPABLE OF BEING SECURED AND ARE NOT ACCESSIBLE WITHOUT THE USE OF A SPECIALIST TOOL. SEAL ALL PITS SUCH THAT THEY ARE VERMIN PROOF.

ENSURE ALL PITS ARE PROVIDED WITH A REINFORCED CAST INSITU CONCRETE SURROUND COLLAR A MINIMUM OF 250MM WIDE X 200MM DEEP. THE CONCRETE COLLAR IS TO FALL AWAY FROM THE PIT LIP BY 10MM OVER THE 250MM WIDTH. THE TOP OF THE COLLAR IS TO BE FLUSH SUCH THAT THE PIT CAN BE MOWED OVER AS PART OF NORMAL LAWN MOWING WITHOUT CHIPPING OR DAMAGE TO THE PIT. ALL PITS ARE TO BE A MINIMUM DIMENSION OF 350 X 350 X 700MM DEEP UNLESS NOTED OTHERWISE AND BEDDED ON A MINIMUM OF 300MM OF GRAVEL AGGREGATE.

PROVIDE EACH PIT WITH A 30MM DIAMETER WEEP HOLE IN THE BASE OF THE PIT TO ALLOW THE DISBURSEMENT OF ANY ACCUMULATED WATER. PROVIDE FIXED DRAINAGE TO THE PIT SYSTEM BY ONE OF THE FOLLOWING METHODS:

- DRAIN BACK TO THE EXISTING SYSTEM, IF PIPE WORK IS AN EXTENSION OF AN EXISTING SYSTEM.
- DRAIN FROM THE LOWEST POINT OF A PIT TO NEAREST STORMWATER DRAIN.
- DRAIN TO A SOAKAGE PIT OF ADEQUATE SIZE IF ABOVE IS NOT POSSIBLE.

LAY ALL CONDUITS WITH A DRAINAGE FALL OF AT LEAST 1:100 TO DRAIN THE PIT SYSTEM TO THE LOWEST PIT OR PITS.

IRRESPECTIVE OF THE ORIENTATION SHOWN ON THE DRAWINGS ORIENTATE THE PITS SUCH THAT THEY ARE TRUE AND SQUARE WITH THE SURROUNDING HARDSCAPE AND ARCHITECTURAL FINISHES.

PROVIDE ALL CONDUITS AND PIPES ENTERING THE PITS WITH BELL MOUTHS OR A PIT BUSH FLUSH WITH AND SEALED TO THE SIDE OF THE PIT. SEAL AROUND ALL CONDUITS AND PIPES ENTERING THE PITS SUCH THAT MOISTURE DOES NOT ENTER THE PITS AROUND THE OUTSIDE OF THE CONDUITS OR PIPES.

ENSURE ALL CABLE ENTRIES AND EXITS WITHIN A PIT ARE LEVEL. CLEAN OUT ALL PITS PRIOR TO PRACTICAL COMPLETION. OPEN ALL OF THE PITS AT PRACTICAL COMPLETION FOR INSPECTION BY THE PROJECT MANAGER. SEAL ALL PIT LIDS ONCE THE INSPECTION IS COMPLETE. PROVIDE ELECTRONIC DIGITAL PHOTOGRAPHS FOR APPROVAL OF EACH PIT PRIOR TO ANY CABLING BEING INSTALLED THAT ALLOW THE CONDUITS TO BE CLEARLY IDENTIFIED, WITHIN FIVE WORKING DAYS AFTER THE PIT AND CONDUIT WORK HAS BEEN COMPLETED. PROVIDE ELECTRONIC DIGITAL PHOTOGRAPHS FOR APPROVAL OF EACH PIT ON COMPLETION OF ALL CABLING BEING INSTALLED THAT ALLOW THE CABLES TO BE CLEARLY IDENTIFIED, PRIOR TO PRACTICAL COMPLETION. EACH PHOTOGRAPH IS TO BE ELECTRONICALLY STAMPED WITH THE TIME AND DATE AND BE EITHER NAMED WITH DESCRIPTIVE NAME THAT ALLOWS THE LOCATION TO BE SIMPLY IDENTIFIED OR ACCOMPANIED WITH A TABULATED DESCRIPTION. INCLUDE A COPY OF THE PHOTOS IN THE OPERATIONS AND MAINTENANCE MANUAL.

11. 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.
- WSSB - 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.
- UNO - UNLESS NOTED OTHERWISE.
- WP - WEATHERPROOF TO IP56 UNO.
- 500 - NUMBER DENOTES MOUNTING HEIGHT AFFL.

E	CONSTRUCTION	21/08/2025
REV:	DESCRIPTION:	DATE:
DRAWING:	ELECTRICAL SERVICES NOTES	
SCALE:	PROJECT NO:	DRAWING NO:
NOT TO SCALE AT A1	C3232a	E03
		REVISION:
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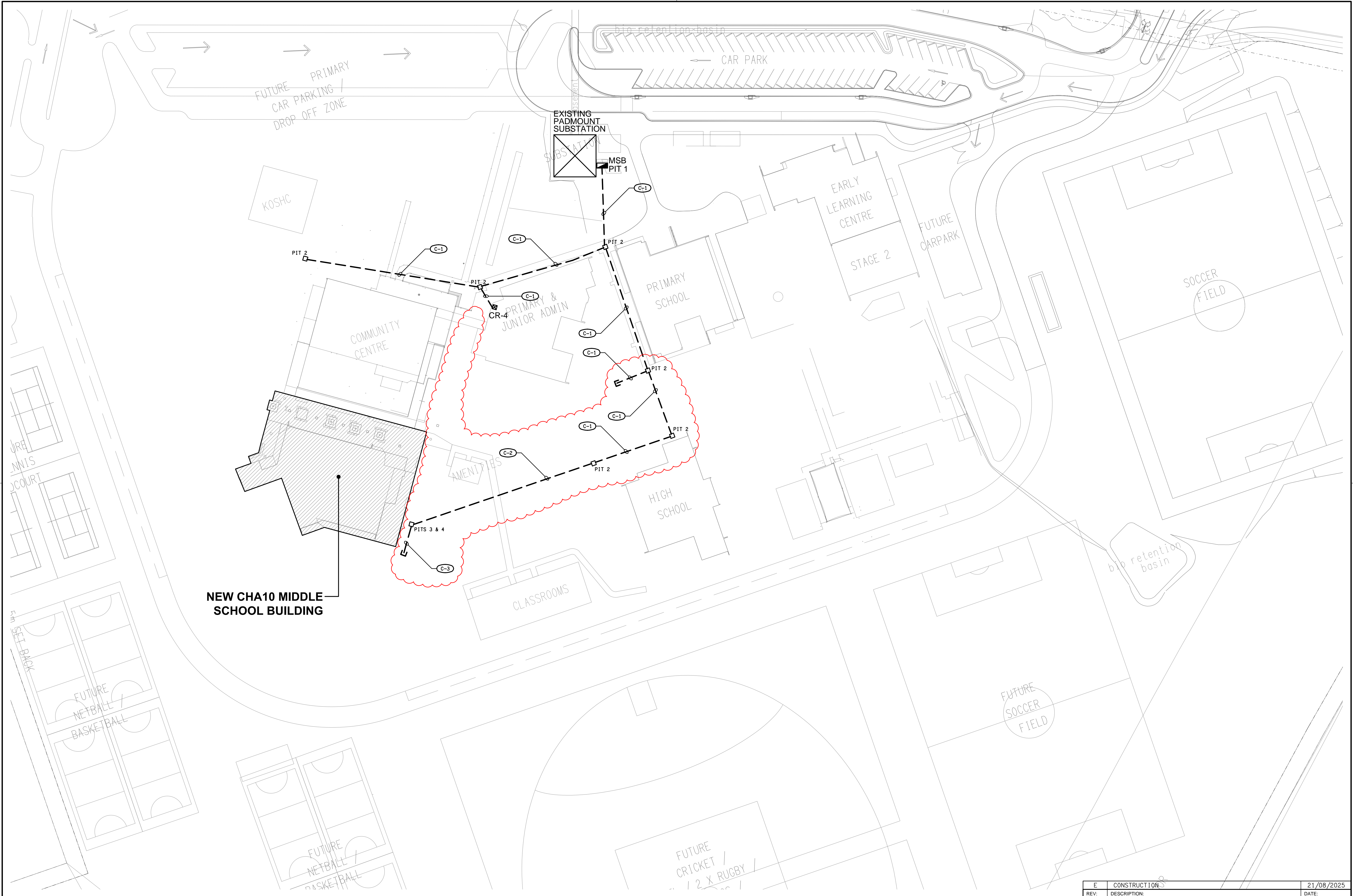
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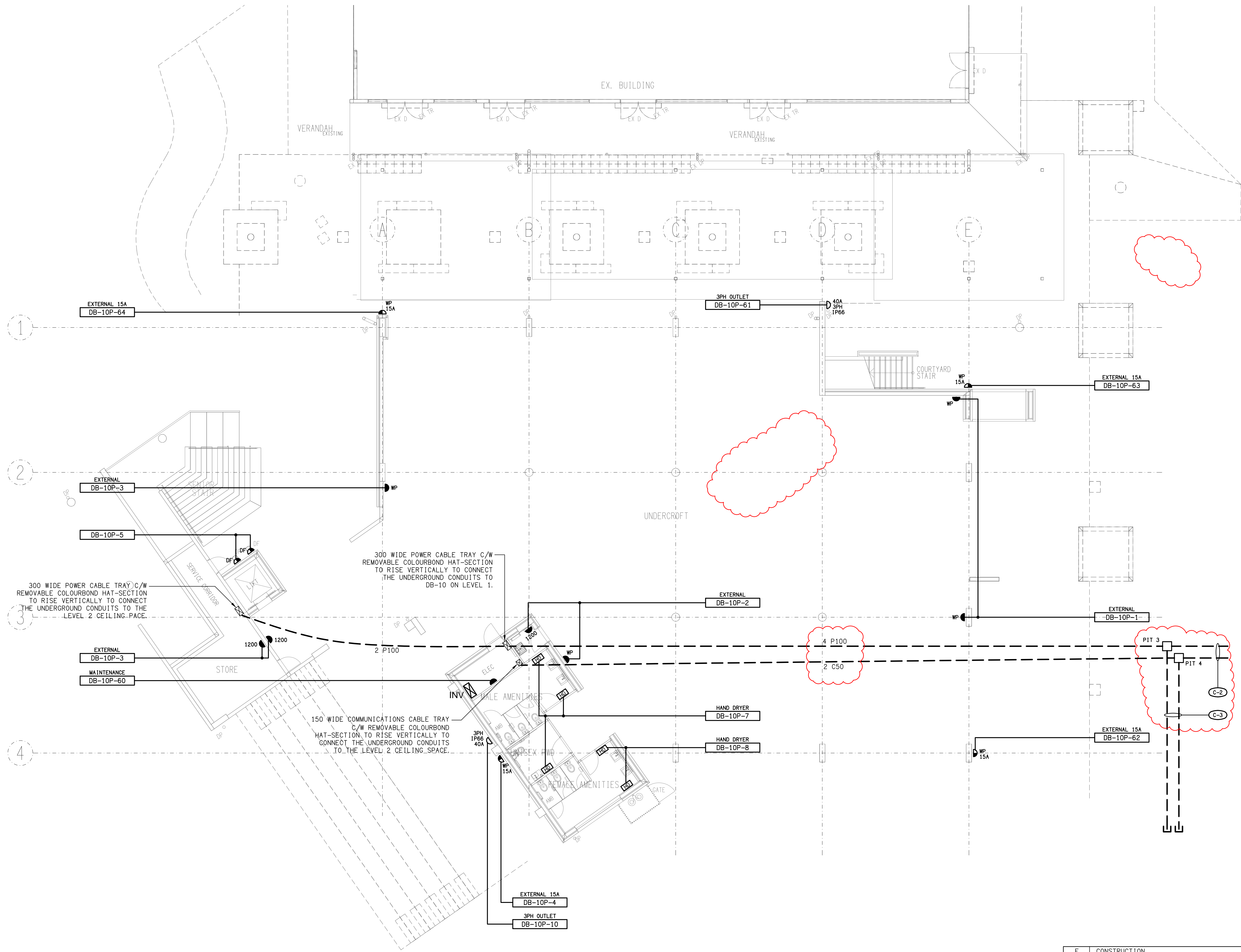
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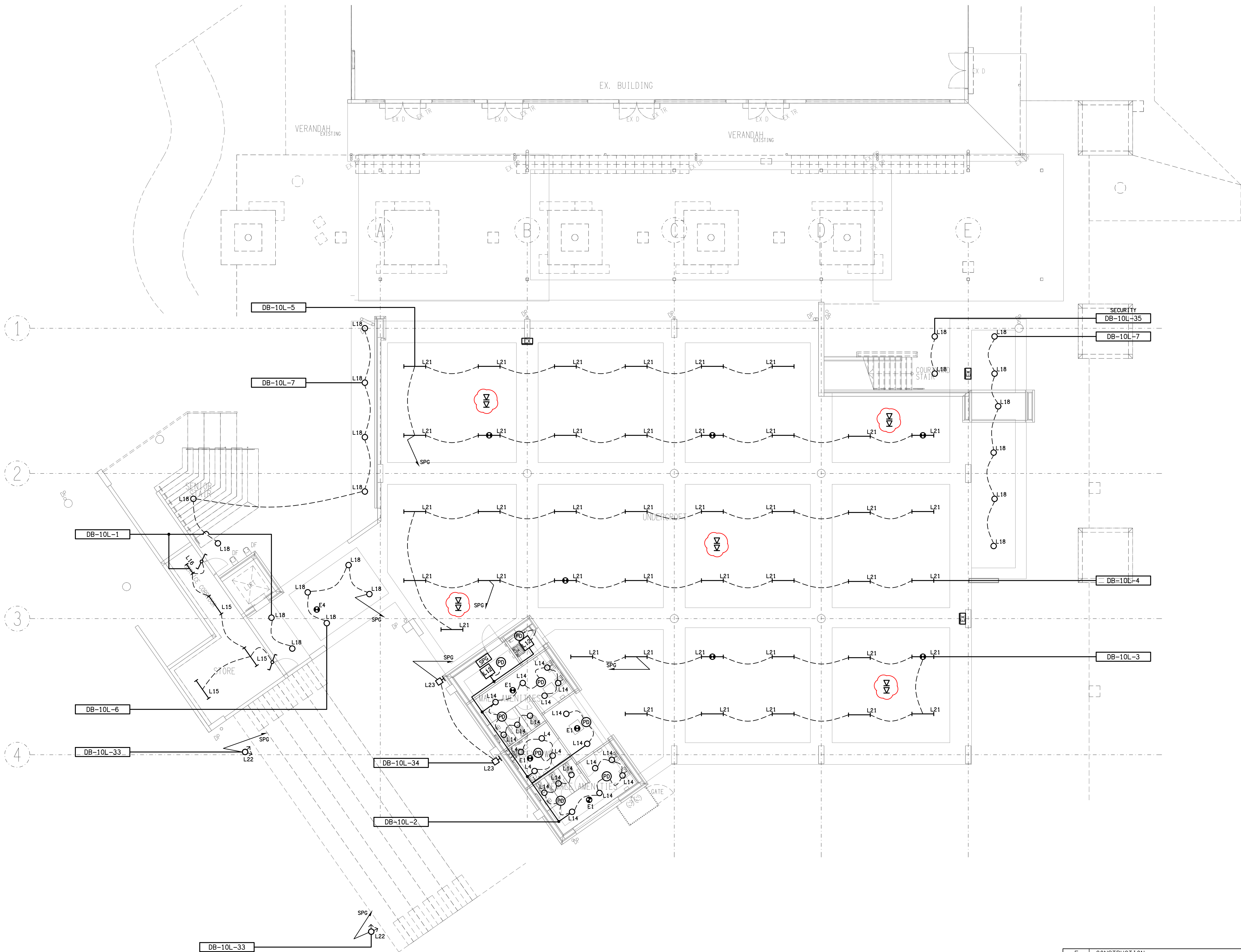
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CHAMBERS FLAT, MIDDLE SCHOOL CHA10

38-112 ANZAC AVENUE, CHAMBERS FLAT



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CHAMBERS FLAT, MIDDLE SCHOOL CHA10**

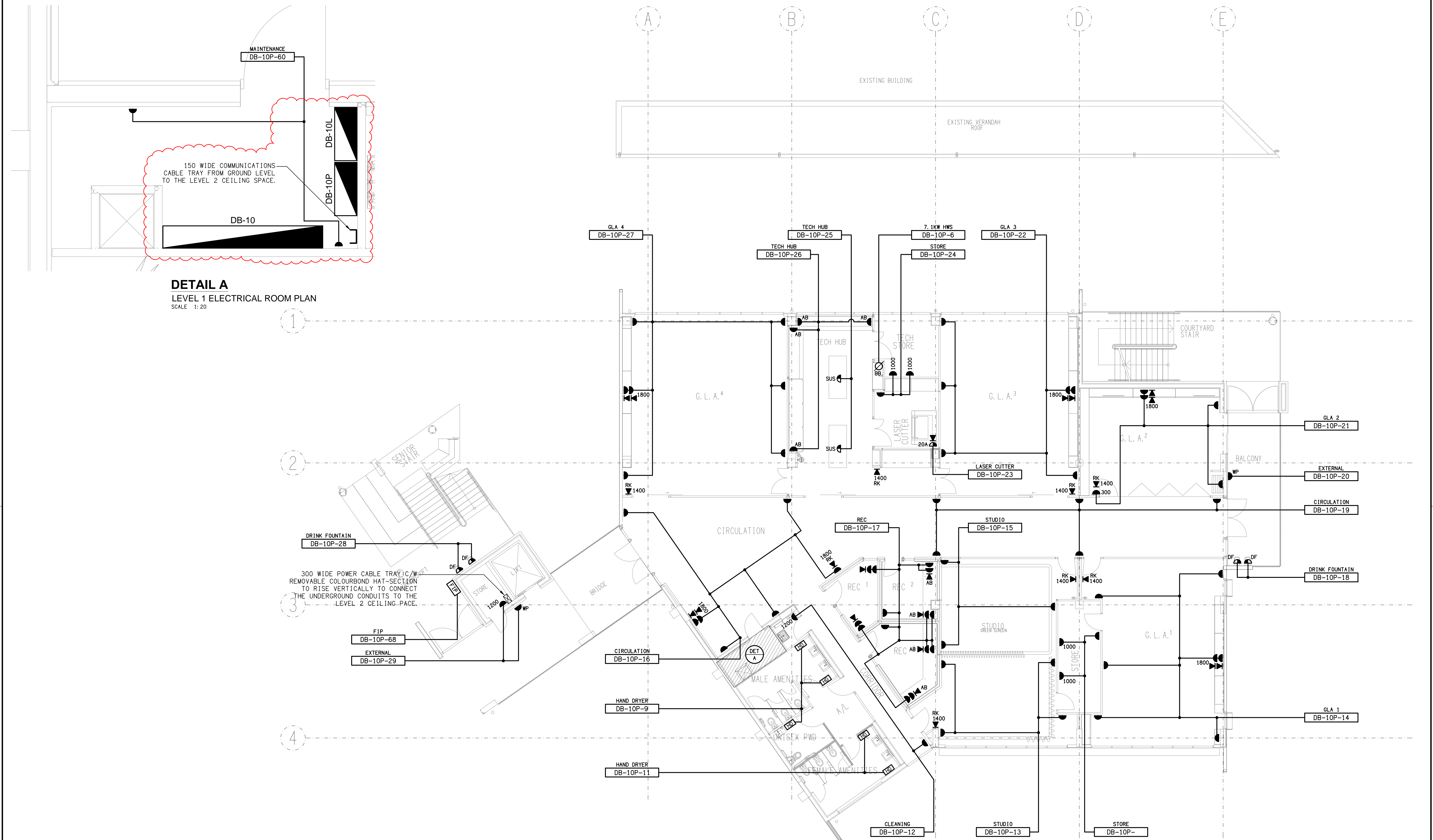
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F	CONSTRUCTION	11/08/2025
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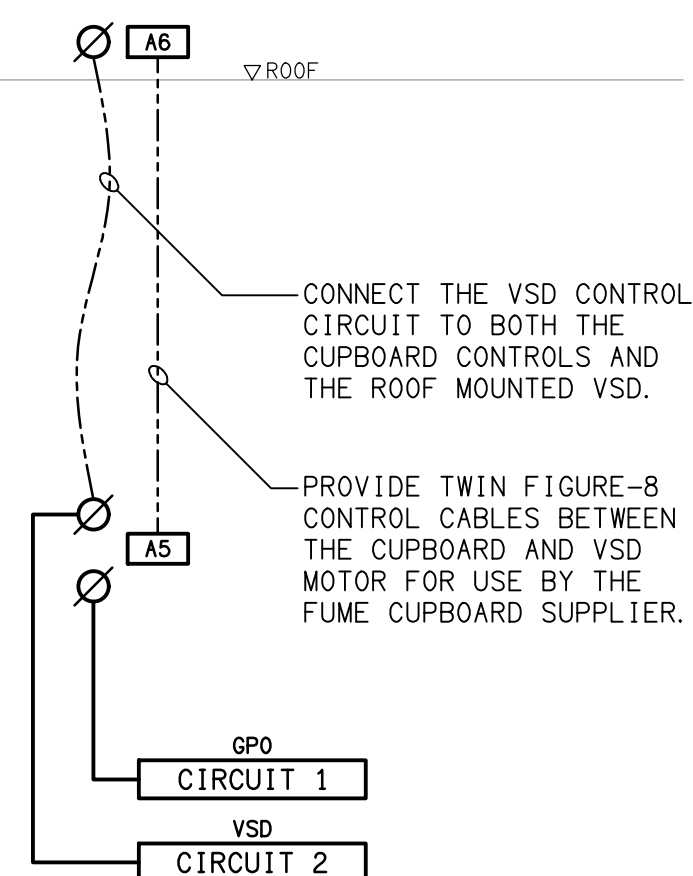
DRAWING:
**ELECTRICAL SERVICES
GROUND LEVEL REFLECTED CEILING PLAN**

SCALE: 1:100 UNO	AT A1	PROJECT NO: C3232a	DRAWING NO: E06	REVISION: F
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DETAIL A
LEVEL 1 ELECTRICAL ROOM PLAN
SCALE 1: 20





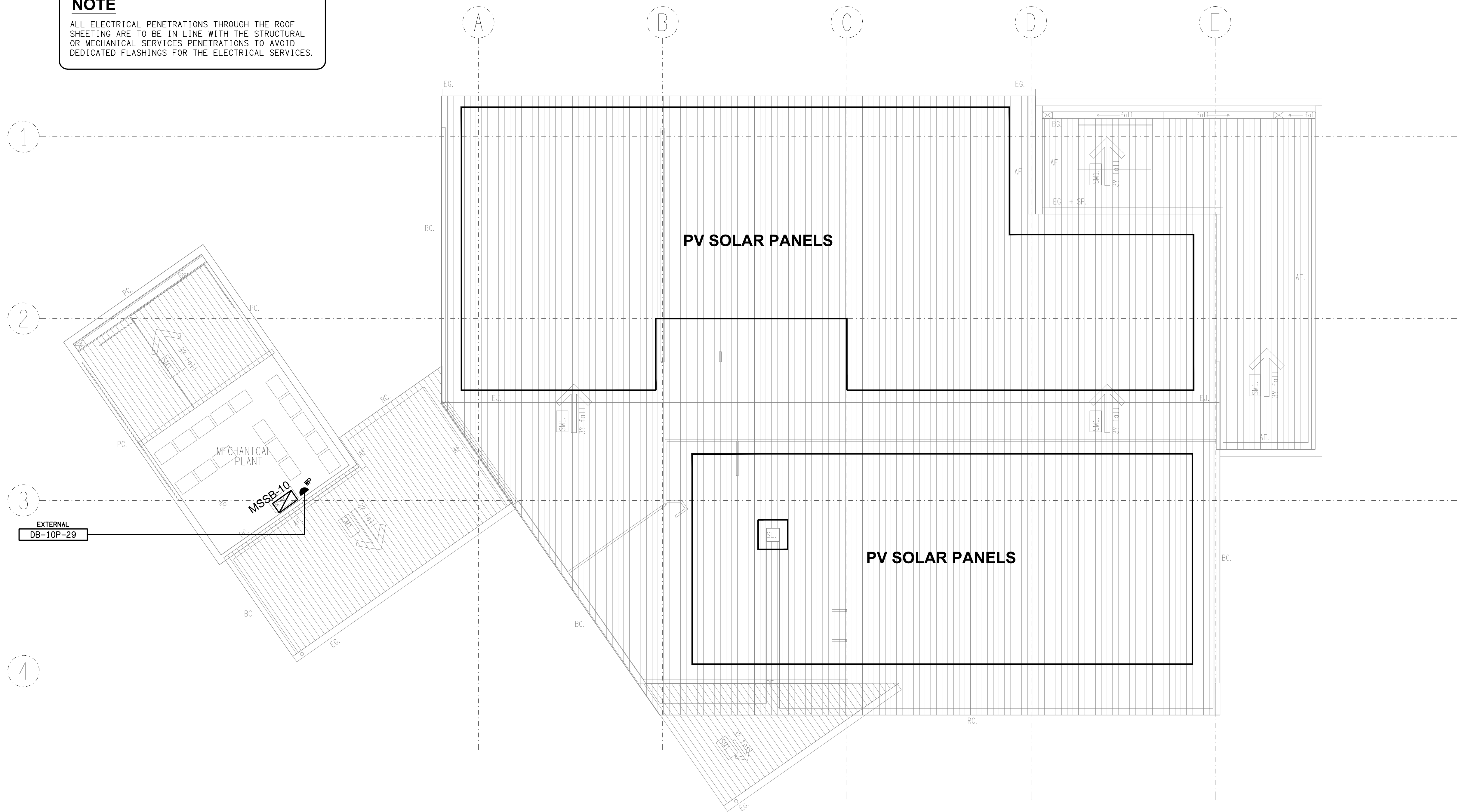


TYPICAL FUME CUPBOARD
NOT TO SCALE

SCALE: 1:100 UNO	AT A1	PROJECT NO: C3232a	DRAWING NO: E09	REVISION: D
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NOTE

ALL ELECTRICAL PENETRATIONS THROUGH THE ROOF SHEETING ARE TO BE IN LINE WITH THE STRUCTURAL OR MECHANICAL SERVICES PENETRATIONS TO AVOID DEDICATED FLASHINGS FOR THE ELECTRICAL SERVICES.



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PROJECT:
**KINGS CHRISTIAN COLLEGE
CHAMBERS FLAT, MIDDLE SCHOOL CHA10**

38-112 ANZAC AVENUE, CHAMBERS FLAT

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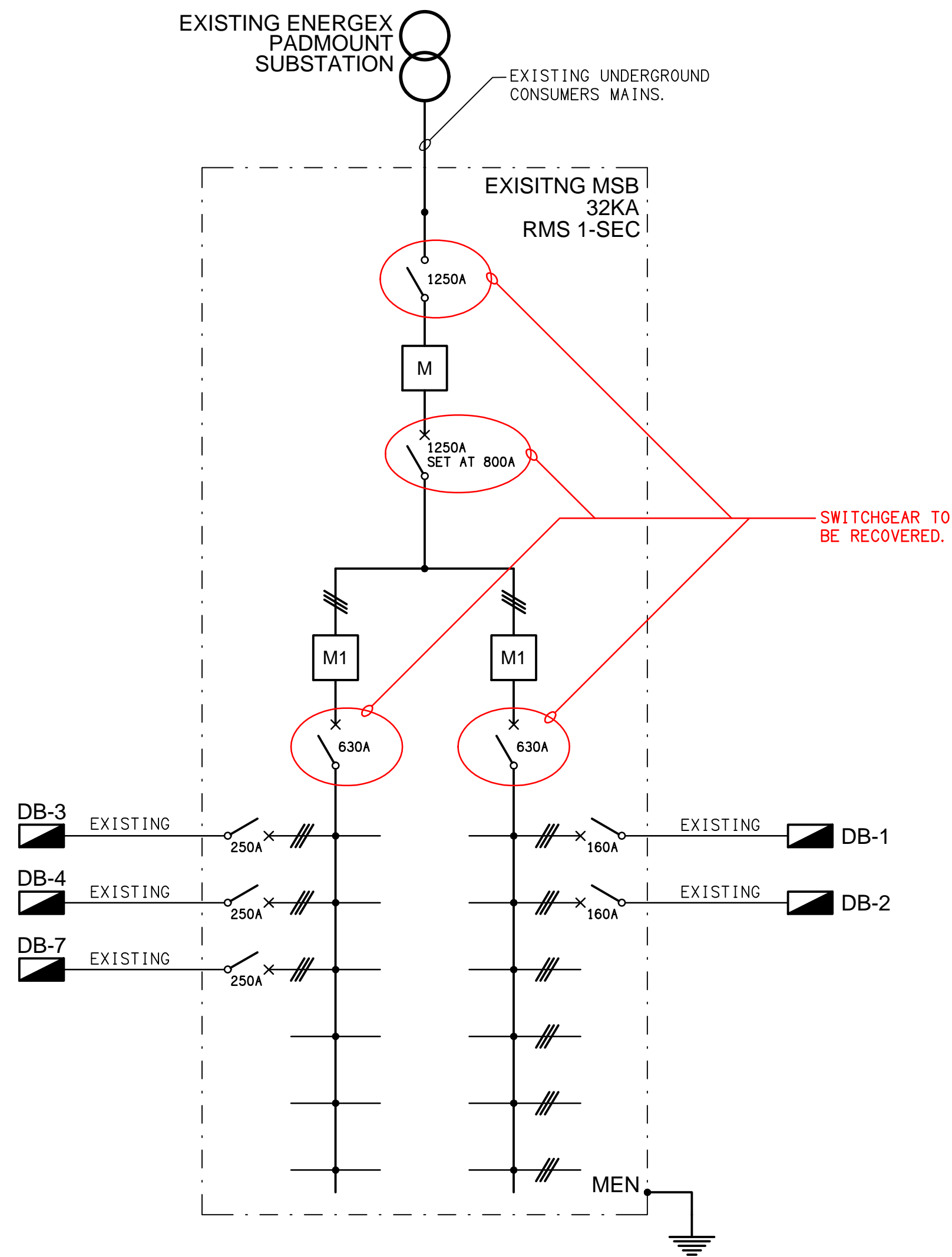
DRAWING:
**ELECTRICAL SERVICES
ROOF LEVEL PLAN**

SCALE:
1:100 UNO AT A1

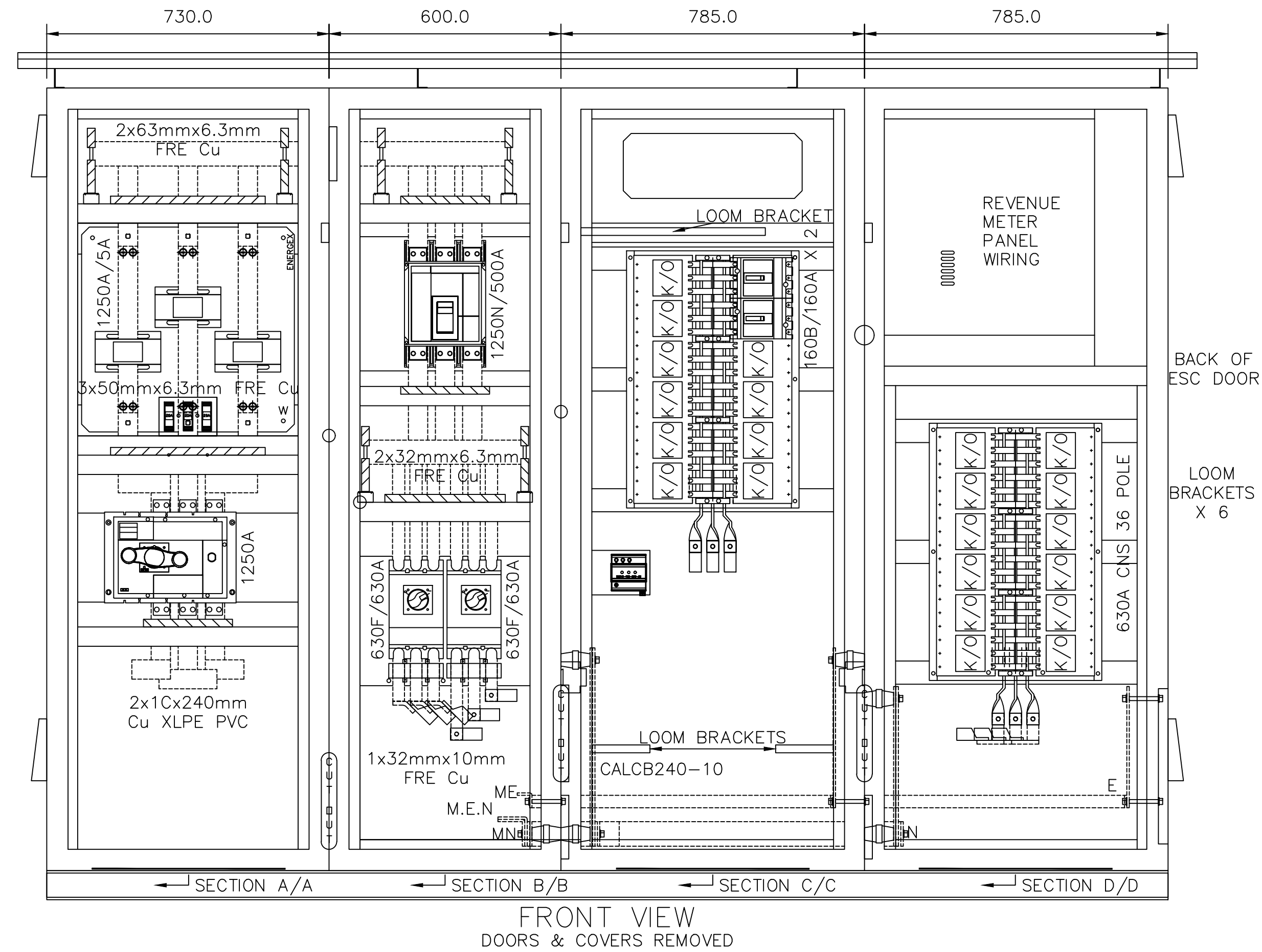
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DRAWING NO:
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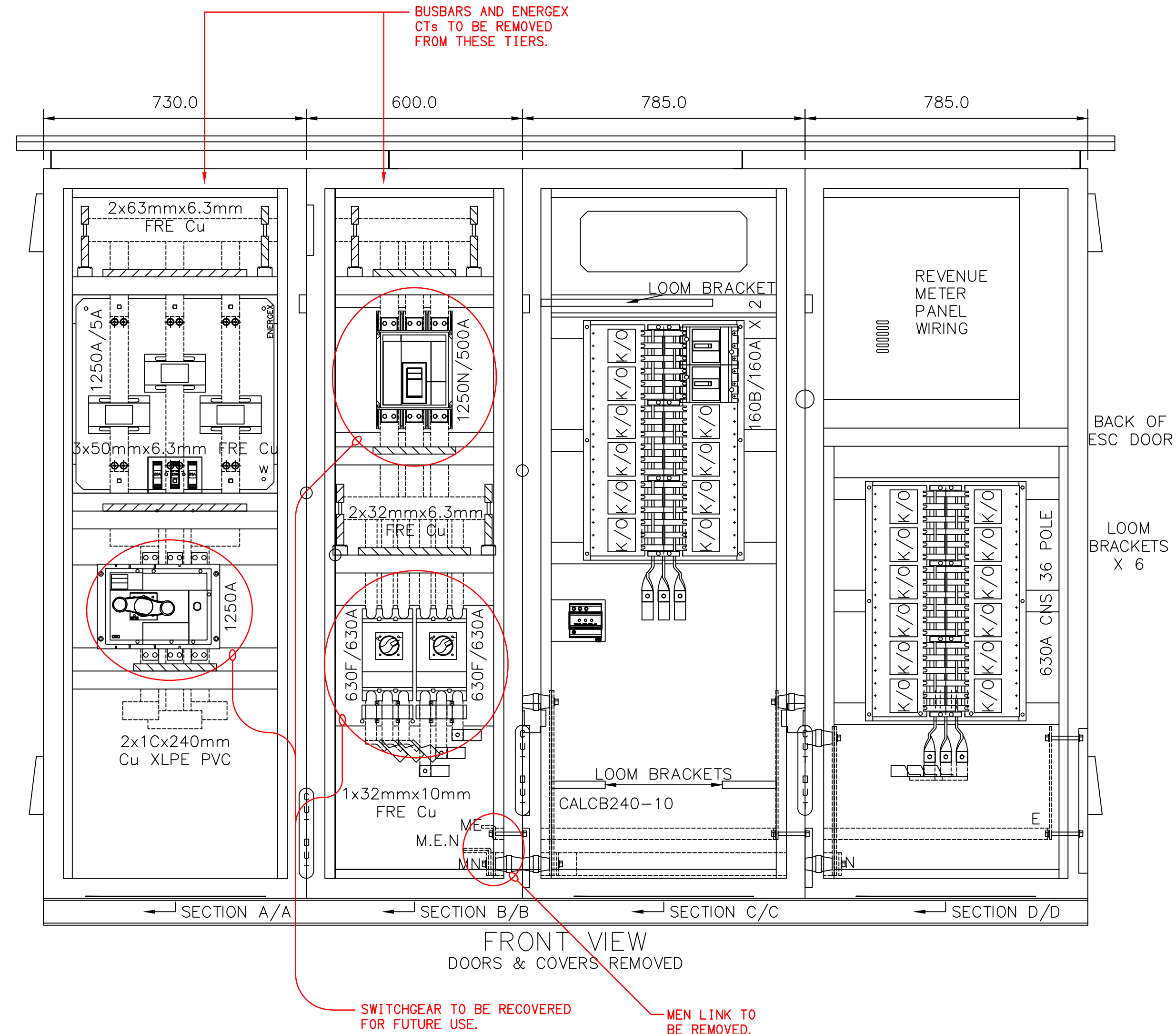
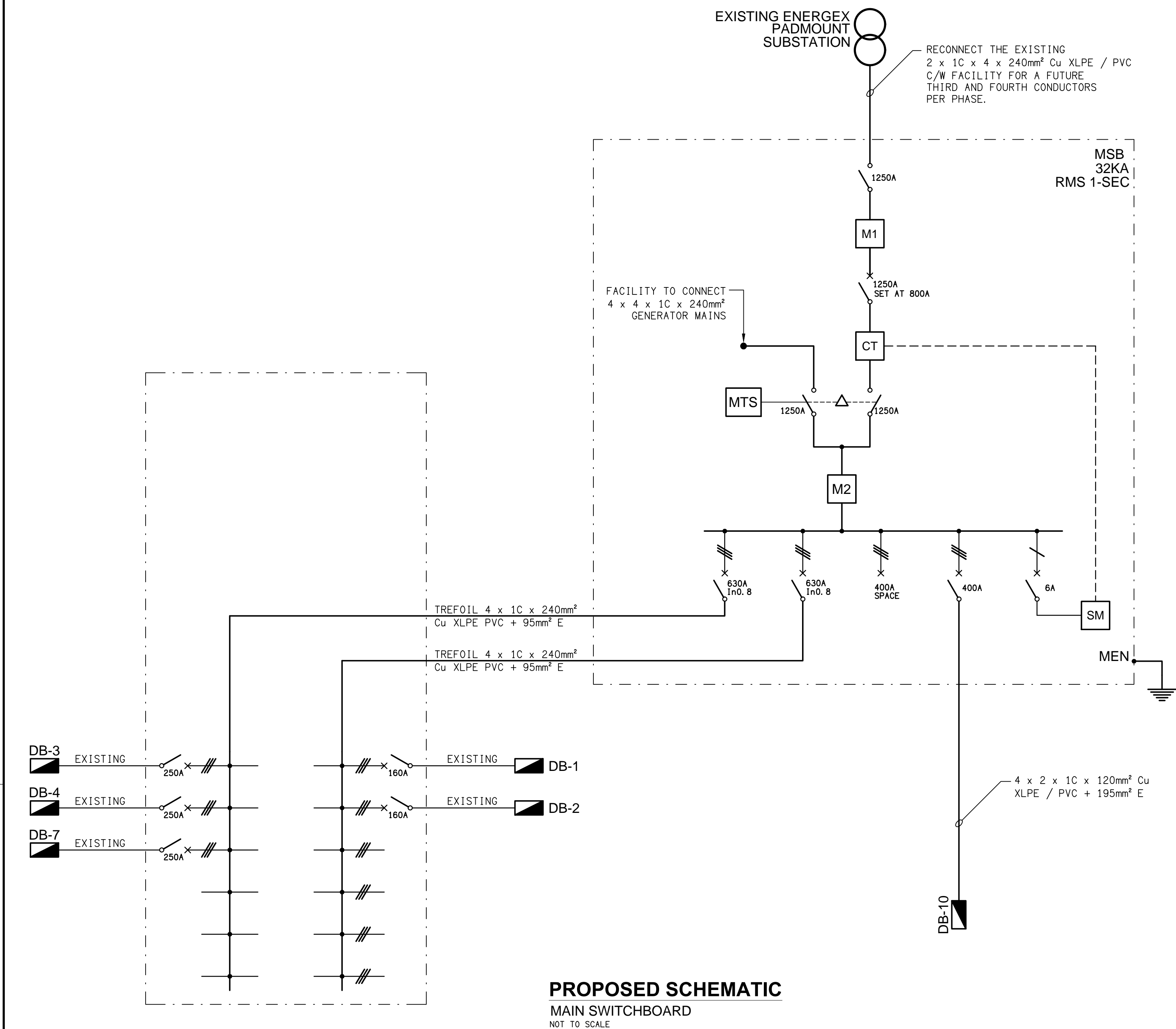
REVISION:
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EXISTING SCHEMATIC
MAIN SWITCHBOARD
NOT TO SCALE



EXISTING SHOP DRAWING
MAIN SWITCHBOARD
NOT TO SCALE



PROPOSED SHOP DRAWING
MAIN SWITCHBOARD
NOT TO SCALE

SWITCHBOARD NOTES

PROVIDE THE SITE MAIN SWITCHBOARD (MSB) AS FOLLOWS:

- PLINTH MOUNTED MECHANICALLY FIXED TO THE WALL.
- QECM COMPLIANT RETAIL METERING.
- PROVIDE A COPY OF THE ENERGEX APPROVAL OF THE MSB.
- 92268 KEY LOCKABLE IP66 (316 STAINLESS STEEL OR ALUMINIUM) POWDER COATED COLOURBOND SURF MIST C/W INTERNAL TEMPERATURE CONTROLLED ANTI CONDENSATION HEATERS IN EACH CUBICAL.
- IP56.
- ENSURE THE MSB IS DESIGNED TO OPERATE IN DIRECT SUNLIGHT WITH AN AMBIENT TEMPERATURE OF 45 DEGREES.
- WHITE ESCUTCHEON.
- BOTTOM ENTRY CABLE ACCESS ONLY.
- SUN / RAIN HOOD.
- DOORS ON ALL CUBICLES WITH 3 POINT 92268 KEY LOCKABLE HANDLES OTHER THAN THE METER CUBICAL DOOR WHICH IS TO HAVE AN ENERGEX PADLOCK.
- LIFT OFF HINGES ON ALL DOORS AND ESCUTCHEONS.
- 1/4 TURN LATCHES AND D HANDLES ON ALL ESCUTCHEONS.
- ALL SWITCHGEAR TO BE NHP/TERASAKI.
- PROVIDE SHOP DRAWINGS FOR APPROVAL.
- ENERGEX PADLOCK ON THE METER CUBICAL.
- TWO ENERGEX PADLOCK KEYS AND TWO 92268 KEYS.
- OBTAIN APPROVAL FROM ENERGEX OF THE NEW MSB SHOP DRAWINGS.

SWITCHBOARD NOTES

PROVIDE DISTRIBUTION BOARDS DB-10, DB-10P AND DB-10L AS FOLLOWS:

- WALL MOUNTED.
- TOP AND BOTTOM ENTRY CABLE ACCESS.
- IP44.
- LIGHT GREY ENCLOSURE WHITE ESCUTCHEON.
- 3 POINT LOCKABLE HANDLES ON ALL DOORS.
- LIFT OFF HINGES ON ALL DOORS AND ESCUTCHEONS.
- 1/4 TURN LATCHES AND D HANDLES ON ALL ESCUTCHEONS.
- ALL SWITCHGEAR TO BE NHP/TERASAKI.
- PROVIDE SHOP DRAWINGS FOR APPROVAL.

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PROJECT:
**KINGS CHRISTIAN COLLEGE
CHAMBERS FLAT, MIDDLE SCHOOL CHA10**

38-112 ANZAC AVENUE, CHAMBERS FLAT

A	CONSTRUCTION	21/08/2025
REV:	DESCRIPTION:	DATE:

DRAWING:
**ELECTRICAL SERVICES
PROPOSED POWER SCHEMATIC**

SCALE:
NOT TO SCALE AT A1

PROJECT NO:
C3232a

DRAWING NO:
E13

REVISION:
A