



ELECTRICAL DESIGN GROUP

ELECTRICAL BUILDING SERVICES CONSULTANTS

P.O. Box 15, SHERWOOD Q. 4075

Phone: (07) 3278 4375

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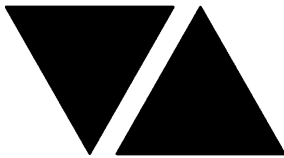
C3657a - BROTHERS RUGBY CLUB - REDEVELOPMENT
ELECTRICAL SERVICES CONTRACT DOCUMENT SCHEDULE
REVISION B - 07 AUGUST 2026

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ISSUING INFORMATION				DATE OF ISSUE								
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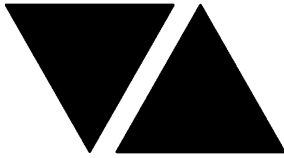
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ELECTRICAL EQUIPMENT SCHEDULE

REVISION A - 07 AUGUST 2026

THE LIGHT FITTING SUPPLIER CONTACT DETAILS MAY BE AVAILABLE ON THE EDG WEBSITE VIA THE FOLLOWING LINK
www.edg.net.au/Links/Lighting.htm

TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
L1	26W 4000K	600 x 600 LAY IN FLAT PLATE LED FITTING C/W REMOTE DRIVER MOUNTED IN A FLUSH RECESSED PB MOUNTING KIT	WHITE TRIM	GAMMA ILLUMINATION AXIS 1548-4K-26W C/W FLUSH RECESS PB KIT	A
L2	26W 4000K	600 x 600 LAY IN FLAT PLATE LED FITTING C/W REMOTE DALI DIMMABLE DRIVER MOUNTED IN A FLUSH RECESSED PB MOUNTING KIT	WHITE TRIM	GAMMA ILLUMINATION AXIS 1548-4K-26W C/W FLUSH RECESS PB KIT DALI	A
L3	13W 4000K LED	RECESSED DOWNLIGHT C/W REMOTE DRIVER	WHITE TRIM	GAMMA ILLUMINATION COBALT 1402-4K-13W	A
L4	36W LED 4000K	1200 LONG SURFACE MOUNTED IP65 DIFFUSED BATTEN C/W INTEGRAL ELECTRONIC CONTROL GEAR	LIGHT GREY	GAMMA STORM 1558-CCT-36W	A
L5	22W 4000K LED	RECESSED DOWNLIGHT C/W REMOTE DALI DIMMABLE DRIVER	WHITE TRIM	GAMMA ILLUMINATION COBALT 1402-4K-22W	A
L6	28W 3000K LED	RECESSED DOWNLIGHT C/W REMOTE DALI DIMMABLE DRIVER	WHITE TRIM	GAMMA ILLUMINATION COBALT 1403-3K-28W DALI	A
L7	13W 4000K LED	RECESSED DOWNLIGHT C/W REMOTE DRIVER	WHITE TRIM	GAMMA ILLUMINATION COBALT 1402-4K-13W	A
L8	13W 3000K LED	RECESSED DOWNLIGHT C/W REMOTE DALI DIMMABLE DRIVER	WHITE TRIM	GAMMA ILLUMINATION COBALT 1402-3K-13W	A
L9	14.4W/M 3000K LED	LED STRIP WITHIN A SCREW FIXED EXTRUSION C/W DIFFUSER UNDER THE FRONT OF THE BAR COUNTER AS PER THE ARCHITECTURAL DETAIL. PROVIDE THE STRIP WITH REMOTE DALI DIMMABLE POWER SUPPLIES AS REQUIRED LOCATE THE POWER SUPPLIES IN A CONCEALED ACCESSIBLE POSITION NOTED ON THE AS CONSTRUCTED DOCUMENTS.	NATURAL	RAPID LED R2334 PLUS ALUMINIUM EXTRUSION AND POWER SUPPLY & DALI CONTROLLER	A
L10	36No 22W 4000K LED	SURFACE MOUNTED 3 CHANNEL TRACK CONFIRM THE FITTING POSITIONS AND AIMING ON SITE WITH THE ARCHITECT ALL CHANNELS ARE TO BE SUPPLIED TOGETHER	WHITE	GAMMA ILLUMINATION 28 SERIES TRACK AND 36 NO SCOPE 1305-FL 4K-22W - DALI	A



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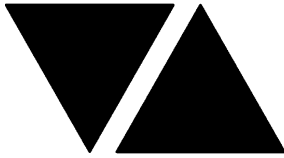
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L11	3000K LED +/- 10% 1500 LUMEN / M	8000 LONG SURFACE MOUNTED LINEAR EXTRUSION C/W OPAL DIFFUSER LEDS AND INTEGRAL DRIVER.	WHITE	GAMMA ILLUMINATION GAP57575	A
L12	26W 4000K	600 x 600 LAY IN FLAT PLATE LED FITTING C/W REMOTE DRIVER AND A SURFACE MOUNTING KIT	WHITE TRIM	GAMMA ILLUMINATION AXIS 1548-4K-26W C/W SM KIT	A
L13	3000K LED +/- 10% 1500 LUMEN / M	8000 LONG SURFACE MOUNTED LINEAR EXTRUSION C/W OPAL DIFFUSER LEDS AND INTEGRAL DRIVER. PROVIDE A 1000 LONG SECTION WITHIN THE FITTING SEPARATELY SWITCHED TO BE OPERATED AS A SECURITY LIGHT WHEN THE REMAINDER OF THE FITTING IS OFF.	WHITE	GAMMA ILLUMINATION GAP57575	A
L14	13W 4000K LED	SURFACE MOUNTED 3 CHANNEL DALI TRACK CONFIRM THE FITTING POSITIONS AND AIMING ON SITE WITH THE ARCHITECT SUPPLY / CIRCUIT THE THREE CHANNELS TOGETHER.	WHITE	GAMMA ILLUMINATION 25 SERIES TRACK AND VIXO 1115-VWFL-4K-13 AS INDICATED	A
FL1	EXISTING FIELD LIGHT POLE TO BE TEMPORARILY SUPPLIED FROM DB-T AND THEN RESUPPLIED FROM DB-A.				A
FL2	EXISTING FIELD LIGHT POLE TO BE TEMPORARILY SUPPLIED FROM DB-T AND THEN RESUPPLIED FROM DB-A.				A
E1	LED	EMERGENCY LIGHT: RECESSED NON-MAINTAINED EMERGENCY LIGHT. AS2293 CLASSIFICATION C0-D80 - C90-D80.	WHITE	CLEVERTRONICS CLIFE-PRO	A
E2	LED	EMERGENCY LIGHT: SURFACE MOUNTED ON THE UNDERSIDE OF THE TABLE TRAY SYSTEM NON-MAINTAINED EMERGENCY LIGHT. AS2293 CLASSIFICATION C0-D80 - C90-D80.	WHITE	CLEVERTRONICS CLIFE-PRO- SM	A
EX	LED	WHITE 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-D1.25- C90-D2	WHITE	CLEVERTRONICS CSBLED	A
EX WP	LED	EXIT LIGHT: MAINTAINED 24M VIEWING DISTANCE EXIT LIGHT C/W DIFFUSERS & DIRECTIONAL ARROWS AS SHOWN AND A IP56 HOUSING 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-D3.2 - C90-E2.	WHITE LOGO GREEN BACKGROUND WHITE BODY	CLEVERTRONICS CWELED-A	A



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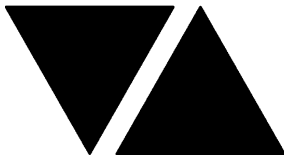
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EMERGENCY PACK		LIGHT FITTINGS THAT ARE DESIGNATED AS BEING PROVIDED WITH AN EMERGENCY PACK ARE TO BE PROVIDED WITH AN INTEGRAL AS2293 EMERGENCY PACK. THE FITTINGS ARE TO BE NON MAINTAINED WITH ALL LAMPS SWITCHED AS PER THE LIGHTING CONTROL FOR THAT SPACE UNLESS NOTED OTHERWISE. REFER TO THE SPECIFICATION FOR FURTHER DETAILS OF THE CONFIGURATION AND SWITCHING OF EMERGENCY LIGHTS.			A
CHANNEL PE		CONTROL THE ASSOCIATED LIGHTS VIA AN ADJUSTABLE PE CELL SUCH THAT THE LIGHTS DO NOT OPERATE DURING DAYLIGHT. PROVIDE A PE CELL BYPASS SWITCH ON THE DB ESCUTCHEON.			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
WEATHERPROOF ONE-WAY LIGHT SWITCH (WP)		IP56 ONE OR TWO-WAY AS NOTED ON DRAWING LIGHT SWITCH C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNTED AT 1000mm AFFL UNLESS NOTED OTHERWISE.	WHITE	CLIPSAL "56 SERIES"	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
DALI LIGHT SWITCH		MANUAL ROTARY DALI POT DIMMER C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND THE DALI DIMMER IS TO BE MOUNTED REMOTELY WITH THE POSITION CONFIRMED ON SITE.	WHITE	CLIPSAL C2000 SMARTSCAPE DALI-RD20-M ROTARY DIMMER	A
LIGHTING CONTROL PANEL (LCP)		SEMI RECESSED 316 STAINLESS STEEL LOCKABLE HINGED HOUSING CONTAINING CONTROLS FOR THE VIC WALSH OVAL AND THE JACK ROSS OVAL WITH THE SAME LEVEL OF FUNCTION AS THE EXISTING CONTROLS. ALL CONTROLS ARE TO BE PROVIDED WITH CLEAR ENGRAVED LABELLING. PROVIDE A SHOP DRAWING INCLUDING A CONTROL SCHEMATIC OF THE LCP FOR APPROVAL. PROVIDE THE HOUSING WITH A MOUNTING FLANGE.			A
PROXIMITY DETECTOR SWITCH (PD)		ADJUSTABLE FLUSH RECESSED DUAL TECHNOLOGY 360 DEGREE ULTRASONIC 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.	WHITE	CLIPSAL SELECTION BY THE CONTRACTOR SUBMIT DETAILS OF THE MOVEMENT DETECTOR SWITCH FOR APPROVAL PRIOR TO ORDERING	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 UNLESS NOTED AS BLACK (BK)	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 UNLESS NOTED AS BLACK (BK)	CLIPSAL C2000 SERIES	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.	GREY	CLIPSAL WSC227/1-RG	A

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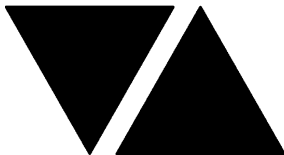
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15A WEATHERPROOF POWER OUTLET (WP 15A)		IP54 WEATHERPROOF 20A SINGLE POWER OUTLET. MOUNT AT MINIMUM 1100mm AFFL U.N.O. RATING 20A U.N.O.	GREY	CLIPSAL WSC227/1/15-RG	A
20A WEATHERPROOF POWER OUTLET (WP 20A)		IP66 WEATHERPROOF 20A SINGLE POWER OUTLET. MOUNT AT MINIMUM 1100mm AFFL U.N.O. RATING 20A U.N.O.	GREY	CLIPSAL 56 SERIES	A
SPECIAL PURPOSE OUTLET		SPECIAL PURPOSE OUTLET TYPE AS NOTED. MOUNT AT 1350mm AFFL U.N.O. RATING 20A U.N.O. CONNECT TO EQUIPMENT VIA FLEXIBLE CONDUIT.			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.	-	CLIPSAL WHT35	A
CCTV MONITOR (CM)		55-INCH UHD WALL-MOUNTED DIGITAL CCTV MONITOR MOUNTED AT 1800 AFFL C/W MOUNTING BRACKET AND DIRECT CONNECTION TO THE CCTV NVR MOUNTED IN CR-A.	NA	HIKVISION SKU: DS-D6055UN-B-SW	A
CCTV CAMERA INTERNAL POSITIONS		SURFACE MOUNTED COLOUR FIXED TURRET CAMERA CABLED TO A CAT 6 CAMERA PATCH PANEL WITHIN THE COMMUNICATIONS RACK CR-A VIA 4-PAIR CAT-6 UTP CABLE.	WHITE	HIKVISION DS-2CD2347G2-L	A
CCTV CAMERA EXTERNAL POSITIONS		SURFACE MOUNTED IR FIXED TURRET CAMERA CABLED TO A CAT 6 CAMERA PATCH PANEL WITHIN THE COMMUNICATIONS RACK CR-A VIA 4-PAIR CAT-6 UTP CABLE.	WHITE	HIKVISION DS-2CD2346G2P-ISU/SL	A
MATV OUTLET		MATV OUTLET CONNECTED TO A DEDICATED ANTENNA TO PROVIDE THE LOCALLY AVAILABLE FREE TO AIR TV SERVICES	WHITE	CLIPSAL C2000 SERIES	A
MATV ANTENNA		ROOF MOUNTED MATV ANTENNA TO RECEIVE AND DISTRIBUTE THE LOCALLY AVAILABLE FREE TO AIR TV SERVICES			A
SECURITY EQUIPMENT		WALL MOUNTED INNER RANGE INTEGRITI SECURITY CONTROLLER, REQUIRED EXPANDERS, INTEGRAL BATTERY BACK UPS AND HOUSINGS.			A
SECURITY PIEZO SIREN		FLUSH RECESSED PIEZO SIREN SUBMIT DETAILS OF THE PIEZO SIRENS FOR APPROVAL PRIOR TO ORDERING.			A
SECURITY INTRUDER DETECTOR		DUAL-TECHNOLOGY MOVEMENT DETECTORS WALL MOUNTED AS PER THE MANUFACTURER'S SPECIFICATION. CONNECT TO THE LOCAL SECURITY EQUIPMENT WITH ONE DETECTOR PER ZONE. PROGRAM THE SECURITY SYSTEM TO THE SATISFACTION OF THE CLUB. SUBMIT DETAILS OF THE DETECTORS INCLUDING THE MOUNTING ARRANGEMENTS FOR APPROVAL PRIOR TO ORDERING.			A



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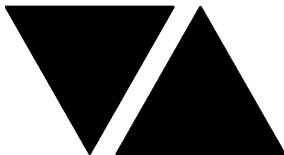
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SECURITY KEY PAD (KP)		LCD KEYPAD MOUNTED AT 1100mm AFFL.	-	INNER RANGE ELITEX STANDARD KEYPAD	A
SIREN STROBE		SECURITY SATELLITE STROBE SIREN MOUNTED AT HIGH LEVEL TO OPERATE WHEN THE BUILDING GOES INTO ALARM.			A
DB-A		DISTRIBUTION BOARD DB-A AS PER THE DB-A SCHEDULE, POWER SCHEMATICS AND NOTES.			A
MSB		MAIN SWITCHBOARD TO BE MODIFIED AS PER THE POWER SCHEMATIC AND NOTES.			A
MSSB		MECHANICAL SERVICES SWITCHBOARD PROVIDED BY THE MECHANICAL SUB CONTRACTOR. COORDINATE THE SUBMAIN CONNECTION WITH THE MECHANICAL SUB CONTRACTOR ON SITE.			A
DB-CD		EXISTING DISTRIBUTION BOARD DB-CA TO BE REMOVED. REDIRECT / EXTEND THE EXISTING DB-CD SUPPLY SUBMAIN TO DB-T. REDIRECT / EXTEND ALL OF THE EXISTING VIC WALSH OVAL LIGHTING AND THE JACK ROSS OVAL LIGHTING CIRCUITS AND CONTROLS TO DB-T VIA NEW UNDERGROUND CONDUITS LOCATED TO ALLOW THE DEMOLITION AND CONSTRUCTION OF THE PROPOSED WORKS.			A
DB-FL		EXISTING FIELD LIGHT DISTRIBUTION BOARD TO REMAIN AS IS.			A
DB-T		PROVIDE DB-T AS A TEMPORARY WEATHERPROOF LOCKABLE DISTRIBUTION BOARD C/W SUPPORT AND MOUNTING TO SUPPLY ALL OF THE EXISTING FIELD LIGHTS SUPPLIED FROM DB-CD. PROVIDE DB-T WITH A SEPARATE EXTERNALLY MOUNTED LOCKABLE WEATHERPROOF HINGED HOUSING CONTAINING CONTROLS FOR THE VIC WALSH OVAL LIGHTING AND THE JACK ROSS OVAL LIGHTING WITH THE SAME LEVEL OF FUNCTION AS THE EXISTING CONTROLS. ALL CONTROLS ARE TO BE PROVIDED WITH CLEAR LABELLING. REDIRECT / EXTEND THE EXISTING DB-CD SUPPLY SUBMAIN TO DB-T. REDIRECT / EXTEND ALL OF THE EXISTING VIC WALSH OVAL LIGHTING AND THE JACK ROSS OVAL LIGHTING CIRCUITS AND CONTROLS TO DB-T VIA NEW UNDERGROUND CONDUITS LOCATED TO ALLOW THE DEMOLITION AND CONSTRUCTION OF THE PROPOSED WORKS.			A
REVENUE METER (M1)		EXISTING ENERGEX REVENUE METER TO REMAIN AS IS			A
PRIVATE METER (M2)		PROVIDE A MULTIFUNCTION METER THAT LOGS THE FOLLOWING ACROSS EACH PHASE, DEMANDS, VOLTAGES, POWER FACTORS, AND HARMONICS.			A
SPEAKER RECESSED		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 UNLESS NOTED BLACK (BK)	AUSTRALIAN MONITOR QF8CS	A
SPEAKER SURFACE MOUNTED		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 UNLESS NOTED BLACK (BK)	AUSTRALIAN MONITOR QF8CS PLUS SURFACE MOUNTING KIT	A



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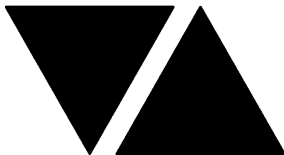
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SPEAKER WALL MOUNTED		15W WALL MOUNTED IP65 MULTI TAP 100V 8 OHM PUBLIC ADDRESS SPEAKER C/W ADJUSTABLE MOUNTING KIT CABLED BACK TO THE ASSOCIATED AMPLIFIER WITHIN THE COMMUNICATIONS RACK VIA 1.5MM MARKED FIG 8 CABLE.	WHITE UNLESS NOTED BLACK (BK)	AUSTRALIAN MONITOR FLEX15W	A
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	A
AUDIO INPUT PANEL (AI)		MIC / LINE AUDIO INPUT MOUNTED AT 300 AFFL UNO CONNECTED TO THE MIXER LOCATED CR-A	WHITE	AUSTRALIAN MONITOR WPML	A
AUDIO VOLUME CONTROL PANEL (VC)		AUDIO VOLUME CONTROL C/E FOUR BUTTON ZONE SELECTION	WHITE	AUSTRALIAN MONITOR WP4R	A
COMMUNICATIONS RACK CR-E		EXISTING MAIN CLUB HOUSE COMMUNICATIONS RACK TO BE PROVIDED WITH A FOBOT. CONFIRM THE LOCATION OF CR-E ON SITE.			A
COMMUNICATIONS RACK CR-A		PROVIDE CR-A AS A FREE STANDING 42 RU MINIMUM 600 DEEP 600 WIDE RACK C/W TWO REAR VERTICAL 10 PORT POWER RAILS AND CASTERS. PROVIDE THE RACK WITH A FOBOT, PATCH PANELS, CABLE MANAGEMENT AND ALL NECESSARY MOUNTINGS / FIXINGS. THE MATV HEADEND, PA SYSTEM EQUIPMENT AND CCTV NVR AR TO NE MOUNTED WITHIN CR-A. PROVIDE AN ELEVATION OF THE CR-A EQUIPMENT CONFIGURATION FOR APPROVAL. ENSURE ALL CABLING INTO CR-A IS PROVIDED WITH SUFFICIENT COILED LENGTH TO ALLOW THE RACK TO BE MOVED OUT OF THE SERVER ROOM.			A
COMMUNICATIONS OUTLET		RJ45 CAT-6 COMMUNICATIONS OUTLET, CABLED BACK TO CAT 6 PATCH PANELS IN RACK CR-A 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 UNLESS NOTED OTHERWISE	WHITE UNLESS NOTED AS BLACK (BK)	CLIPSAL C2000 SERIES	A
SURFACE MOUNT (SM)		SM DENOTES THE FITTING / OUTLET IS TO BE SURFACE MOUNTED			A
RISER		PROVIDE THE RISER AS A REMOVABLE 2MM GALVANIZED STEEL COVER OVER POWER AND COMMUNICATIONS TRAYS CONNECTING THE UNDERGROUND CONDUITS TO THE CEILING SPACE. CONFIRM THE POSITION OF THE RISER ON SITE.			A
POWER PIT 1		600 X 600 CLEAR INTERNAL X 900 DEEP INSITU POWER PIT C/W A REINFORCED CONCRETE SURROUND AND A CLASS D LID WITH A SLIP RESISTANCE OF R10. SUBMIT DETAILS OF THE PIT, LID AND AN INSTALLATION SECTION FOR APPROVAL.			A
POWER PIT 2		600 X 600 CLEAR INTERNAL X 900 DEEP POWER PIT C/W A CLASS B LID.			A



ELECTRICAL DESIGN GROUP

ELECTRICAL BUILDING SERVICES CONSULTANTS

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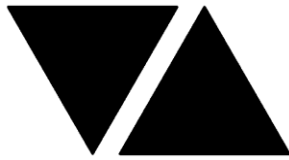
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ELECTRICAL EQUIPMENT SCHEDULE

REVISION A - 07 AUGUST 2026

THE LIGHT FITTING SUPPLIER CONTACT DETAILS MAY BE AVAILABLE ON THE EDG WEBSITE VIA THE FOLLOWING LINK
www.edg.net.au/Links/Lighting.htm

TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
COMMUNICATIONS PIT 1		300 X 000 CLEAR INTERNAL X 900 DEEP INSITU POWER PIT C/W A REINFORCED CONCRETE SURROUND AND A CLASS D LID WITH A SLIP RESISTANCE OF R10 SUBMIT DETAILS OF THE PIT, LID AND AN INSTALLATION SECTION FOR APPROVAL.			A
COMMUNICATIONS PIT 2		300 X 300 CLEAR INTERNAL X 900 DEEP POWER PIT C/W A CLASS B LID.			A
FIRE INDICATOR PANEL (FIP)		AS 1670 COMPLAINT FIRE INDICATOR PANEL INCORPORATING THE EWCIE AND FDCIE			A
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 MANUAL CALL POINT		MANUAL CALL POINT MOUNTED ON THE FIP AS PER AS1670.1			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 AS7240.7 POINT SMOKE DETECTORS WITH A PERFORMANCE OF 6 TO 12 % OBS/M SET AT 7.8 %. WHITE UNLESS NOTED AS BLACK (BK)			A
THERMAL DETECTOR		SURFACE MOUNTED AS7240.5:2018 TYPE B SEALED FIXED TEMPERATURE ADDRESSABLE THERMAL DETECTOR. WHITE UNLESS NOTED AS BLACK (BK)			A
FIRE ALARM STROBE		WALL MOUNTED FIRE ALARM STROBE LIGHT AS PER AS1670.1			A



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DISTRIBUTION BOARD DB-A POWER

REVISION A - 07 AUGUST 2026

							REV
FAULT CURRENT: 6kA							A
CHASSIS SIZE: 2 X 60 POLES							A
CHASSIS RATING: 250A							A
PHASES: A							A
PROVIDE THE DB WITH A 600 WIDE EMPTY DIN RAIL TO ACCOMMODATE FUTURE CONTACTORS AND CONTROLS IN ADDITION TO THE CONTROLS PROVIDED AS PART OF THE INITIAL WORKS. . PROVIDE THE DB WITH SURGE PROTECTION.							A
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE (mm ²)	LOCATION	CIRCUIT USE	
P1	1	20	RCBO	2.5	GROUND	BROADCAST	A
P2	1	20	RCBO	2.5	GROUND	BROADCAST	A
P3	1	20	RCBO	2.5	GROUND	BROADCAST	A
P4	1	20	RCBO	2.5	GROUND	BROADCAST	A
P5	1	20	RCBO	2.5	GROUND	GYM TV	A
P6	1	20	RCBO	2.5	GROUND	GYM GPO	A
P7	1	20	RCBO	2.5	GROUND	GYM GPO	A
P8	1	20	RCBO	2.5	GROUND	STORE GPO	A
P9	1	20	RCBO	2.5	GROUND	LAUNDRY	A
P10	1	20	RCBO	2.5	GROUND	LAUNDRY	A
P11	1	20	RCBO	2.5	GROUND	MAINTENANCE	A
P12	1	20	RCBO	2.5	GROUND	CHANGE ROOM	A
P13	1	20	RCBO	2.5	GROUND	AMENITY	A
P14	1	20	RCBO	2.5	GROUND	CHANGE ROOM	A
P15	3	40	RCBO	6.0	GROUND	6 X 3.6KW HWS	A
P16	3	40	RCBO	6.0	GROUND	6 X 3.6KW HWS	A
P17	3	40	RCBO	6.0	GROUND	6 X 3.6KW HWS	A
P18	3	40	RCBO	6.0	GROUND	6 X 3.6KW HWS	A
P19	1	20	RCBO	2.5	GROUND	CANTEEN REF	A
P20	1	20	RCBO	2.5	GROUND	CANTEEN FREZ	A
P21	1	20	RCBO	2.5	GROUND	CANTEEN AB GPO	A
P22	1	20	RCBO	2.5	GROUND	CANTEEN PIES	A
P23	1	20	RCBO	2.5	GROUND	CANTEEN POS	A
P24	1	20	RCBO	2.5	LEVEL 1	MEDICALGPO	A
P25	1	20	RCBO	2.5	LEVEL 1	MEDICAL REF	A
P26	1	20	RCBO	2.5	LEVEL 1	REFEREE	A
P27	1	20	RCBO	2.5	LEVEL 1	STAIR LIFTER	A
P28	1	20	RCBO	2.5	LEVEL 1	CLUB TV	A
P29	1	20	RCBO	2.5	LEVEL 1	AMENITY	A
P30	1	20	RCBO	2.5	LEVEL 1	OFFICE REF	A
P31	1	20	RCBO	2.5	LEVEL 1	OFFICE KIT	A
P32	1	20	RCBO	2.5	LEVEL 1	OFFICE DW	A
P33	1	20	RCBO	2.5	LEVEL 1	OFFICE AUTO BOILER	A
P34	1	20	RCBO	2.5	LEVEL 1	OFFICE GPO	A
P35	1	20	RCBO	2.5	LEVEL 1	OFFICE GPO	A
P36	1	20	RCBO	2.5	LEVEL 1	MEETING GPO	A
P37	1	20	RCBO	2.5	LEVEL 1	MAINTENANCE	A
P38	1	20	RCBO	2.5	LEVEL 1	CLUB GPO	A
P39	1	20	RCBO	2.5	LEVEL 1	CHANGE ROOM	A
P40	1	20	RCBO	2.5	LEVEL 1	AMENITY	A
P41	1	20	RCBO	2.5	LEVEL 1	CHANGE ROOM	A
P42	1	20	RCBO	2.5	LEVEL 1	FIP	A
P43	1	20	RCBO	2.5	LEVEL 1	AMENITY	A
P44	1	20	RCBO	2.5	LEVEL 1	MERCH STORE GPO	A
P45	1	20	RCBO	2.5	LEVEL 1	MERCH STORE POS	A
P46	1	20	RCBO	2.5	LEVEL 1	CLUB BAR AB	A
P47	1	20	RCBO	2.5	LEVEL 1	CLUB BAR REF	A

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Pages inc. any attach. 1 of 2



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DISTRIBUTION BOARD DB-A POWER

REVISION A - 07 AUGUST 2026

							REV
FAULT CURRENT: 6kA							A
CHASSIS SIZE: 2 X 60 POLES							A
CHASSIS RATING: 250A							A
PHASES: A							A
PROVIDE THE DB WITH A 600 WIDE EMPTY DIN RAIL TO ACCOMMODATE FUTURE CONTACTORS AND CONTROLS IN ADDITION TO THE CONTROLS PROVIDED AS PART OF THE INITIAL WORKS. . PROVIDE THE DB WITH SURGE PROTECTION.							A
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE (mm ²)	LOCATION	CIRCUIT USE	
P48	1	20	RCBO	2.5	LEVEL 1	CLUB BAR REF	A
P49	1	20	RCBO	2.5	LEVEL 1	CLUB BAR REF	A
P50	1	20	RCBO	2.5	LEVEL 1	CLUB BAR AB	A
P51	1	20	RCBO	2.5	LEVEL 1	CLUB BAR PIES	A
P52	1	20	RCBO	2.5	LEVEL 1	CLUB BAR POS	A
P53	1	20	RCBO	2.5	LEVEL 2	CRA	A
P54	1	20	RCBO	2.5	LEVEL 1	SECURITY	A
P55	1	20	RCBO	2.5	LEVEL 1	MAINTENANCE	A
P56	1	20	RCBO	2.5	LEVEL 1	CORPORATE COUNTER	A
P57	1	20	RCBO	2.5	GROUND	CORPORATE COUNTER	A
P58	1	20	RCBO	2.5	GROUND	CORPORATE GPO	A
P59	1	20	RCBO	2.5	GROUND	COACHES	A
P60	1	20	RCBO	2.5	GROUND	COACHES	A
P61	1	20	RCBO	2.5	GROUND	PUMP	A



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DISTRIBUTION BOARD DB-A LIGHTING

REVISION A - 07 AUGUST 2026

							REV
FAULT CURRENT: 6kA							A
CHASSIS SIZE: 48 POLES							A
CHASSIS RATING: 250A							A
PHASES: A							A
PROVIDE THE DB WITH TWO 600 WIDE EMPTY DIN RAIL TO ACCOMMODATE FUTURE CONTACTORS AND CONTROLS IN ADDITION TO THE CONTROLS PROVIDED AS PART OF THE INITIAL WORKS. PROVIDE THE DB WITH AN AS2293 EMERGENCY LIGHTING CONTROL SYSTEM TO CONTROL THE ASSOCIATED EMERGENCY LIGHTS. PROVIDE THE DB WITH SURGE PROTECTION.							A
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE (mm ²)	LOCATION	CIRCUIT USE	
L1	1	20	RCBO	2.5		SECURITY	A
L2	1	20	RCBO TC ON / OFF	2.5	GROUND	CIRCULATION	A
L3	1	20	RCBO	2.5	GROUND	AMENITY	A
L4	1	20	RCBO	2.5	GROUND	AMENITY	A
L5	1	20	RCBO	2.5	GROUND	GYM	A
L6	1	20	RCBO TC ON / OFF	2.5	LEVEL 1	CIRCULATION	A
L7	1	20	RCBO TC ON / OFF PE CELL OVER RIDE	2.5	LEVEL 1	CIRCULATION	A
L8	1	20	RCBO TC ON / OFF	2.5	LEVEL 1	TERRACE	A
L9	1	20	RCBO	2.5	LEVEL 1	MECH STORE	A
L10	1	20	RCBO	2.5	LEVEL 1	AMENITY	A
L11	1	20	RCBO	2.5	LEVEL 1	OFFICE	A
L12	1	20	RCBO	2.5	LEVEL 1	AMENITY	A
L13	1	20	RCBO	2.5	LEVEL 1	CHANGE ROOM	A
L14	1	20	RCBO	2.5	LEVEL 1	CHANGE ROOM	A
L15	1	20	RCBO	2.5	LEVEL 1	CLUB	A
L16	1	20	RCBO	2.5	LEVEL 2	CIRCULATION	A
L17	1	20	RCBO	2.5	LEVEL 2	COACHES	A
L18	3	40	MCB	10.0	FIELD	FL1	A
L19	3	40	MCB	10.0	FIELD	FL2	A
L20	1	20	RCBO	2.5	LEVEL 1	BAR	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.
	ELECTRICAL JUNCTION BOX / RISER, TYPE AS NOTED.
	CONDUIT ROUTE.
	ELECTRICAL PIT, TYPE AS NOTED.
	LIGHTING CONTROL PANEL.
	LIGHTING PRESENCE DETECTOR SWITCH.
	ONE-WAY LIGHT SWITCH.
	TWO-WAY LIGHT SWITCH.
	DALI LIGHT SWITCH.
	CIRCUIT LINE.
	SWITCH LINE.
	POWER CIRCUIT DESIGNATION. DENOTES DB AND CIRCUIT.
	LIGHTING CONTROL CHANNEL.
	ELECTRICAL EQUIPMENT AS NOTED.
	MATV BELLING-LEA OUTLET.
	RJ45 COMMUNICATIONS OUTLET.
	SECURITY CCTV MONITOR.
	SECURITY CCTV CAMERA.
	SECURITY KEY PANEL.
	SECURITY DIRECTIONAL MOTION DETECTOR.
	SECURITY SIREN STROBE.
	SECURITY PIEZO SIREN.
	PA HORN / HOOTER.
	PA RECESSED MULTI-TAP CONE SPEAKER.
	PA SURFACE MOUNT MULTI-TAP CONE SPEAKER.
	PA WALL MOUNT MULTI-TAP CONE SPEAKER.
	FIRE RECESSED EVACUATION SPEAKER.
	FIRE SURFACE MOUNT EVACUATION SPEAKER.
	FIRE INDICATOR PANEL.
	FIRE ALARM HORN.
	FIRE ALARM STROBE.
	THERMAL DETECTOR.
	MANUAL CALL POINT.
	SMOKE DETECTOR.

LEGEND

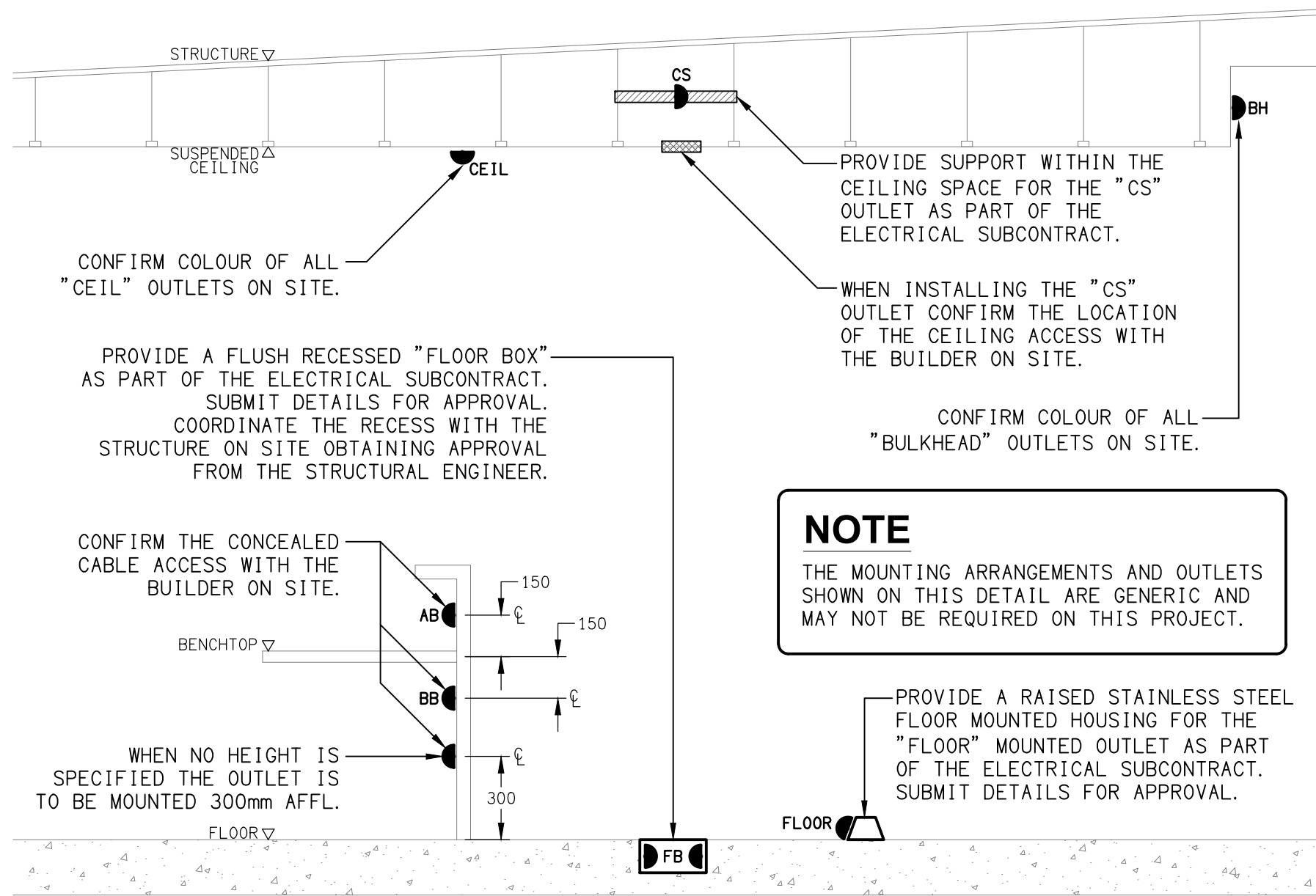
	VOLUME CONTROL PANEL.
	AUDIO INPUT PANEL.
	FUSE.
	SINGLE PHASE.
	THREE PHASE.
	CURRENT TRANSFORMER C/W REMOVABLE LINK.
	FUSE LINK.
	COMBINED FUSE SWITCH.
	CIRCUIT BREAKER.
	ISOLATOR.
	RESIDUAL CURRENT DEVICE.
	CONTACTOR - NORMALLY OPEN.
	CONTACTOR - NORMALLY CLOSED.
	REFER TO DETAIL NOTED FOR THE AREA SHOWN HATCHED. ADDITIONAL OUTLETS & FITTINGS MAY BE SHOWN ON DETAIL.
	ROOF MOUNTED MATV ANTENNA.
	EXISTING ENERGEX RETAIL METER.
	NEW PRIVATE CONSUMPTION METER.
	E1: GENERAL RECESSED LED EMERGENCY LIGHT.
	E2: GENERAL SURFACE MOUNT LED EMERGENCY LIGHT.
	EX: EMERGENCY LED EXIT LIGHT.
	EX WP: EMERGENCY WEATHERPROOF LED EXIT LIGHT.
	FL1: EXISTING FIELD FLOOD LIGHT.
	FL2: EXISTING FIELD FLOOD LIGHT.
	Lx: LIGHT FITTING C/W NON-MAINTAINED EMERGENCY BATTERY PACK. TYPE AS NOTED.
	L1: 600 x 600 PLASTERBOARD FLAT PANEL LIGHT.
	L2: 600 x 600 PLASTERBOARD FLAT PANEL LIGHT, DALI DIMMED.
	L3: AMENITY RECESSED DOWNLIGHT.
	L4: 1200 LONG SURFACE BATTEN.
	L5: CIRCULATION RECESSED DOWNLIGHT.
	L6: CORPORATE / OFFICE RECESSED DOWNLIGHT, DALI DIMMED.
	L7: COUNTER RECESSED DOWNLIGHT.
	L8: COUNTER RECESSED DOWNLIGHT, DALI DIMMED.
	L9: COUNTER LED STRIP LIGHT, DALI DIMMED.
	L10: GYM SURFACE MOUNTED LIGHT.
	L11: TERRACE LINEAR EXTRUSION LIGHT.
	L12: 600 x 600 SURFACE MOUNTED FLAT PANEL LIGHT.
	L13: TERRACE LINEAR EXTRUSION LIGHT C/W 1m SECTION SEPARATELY SWITCHED FOR SECURITY.
	L14: SURFACE TRACK SPOT LIGHT.

ABBREVIATIONS

A	-	AMP CURRENT RATING
AB	-	MOUNT ABOVE BENCH.
AFFL	-	ABOVE FINISHED FLOOR LEVEL.
BB	-	MOUNT BELOW BENCH.
BH	-	MOUNT ON BULKHEAD.
BK	-	BLACK IN COLOUR.
CEIL	-	MOUNT ON CEILING.
CS	-	MOUNT WITHIN CEILING SPACE.
C/W	-	COMPLETE WITH.
DW	-	DISHWASHER.
MCB	-	MINIATURE CIRCUIT BREAKER.
MCCB	-	MOUNDED CASE CIRCUIT BREAKER.
MSB	-	MAIN SWITCHBOARD.
MSSB	-	MECHANICAL SERVICES SWITCHBOARD.
MW	-	MICROWAVE.
N	-	NEON / LED INDICATOR WHEN ON.
NTS	-	NOT TO SCALE.
RCBO	-	CIRCUIT PROTECTED VIA A 30mA RESIDUAL CURRENT DEVICE INTEGRAL TO THE CIRCUIT BREAKER.
REF	-	REFRIGERATOR.
SM	-	SURFACE MOUNTED.
UNO	-	UNLESS NOTED OTHERWISE.
WP	-	WEATHERPROOF TO IP56 UNO.
500	-	NUMBER DENOTES MOUNTING HEIGHT AFFL.

NOTE

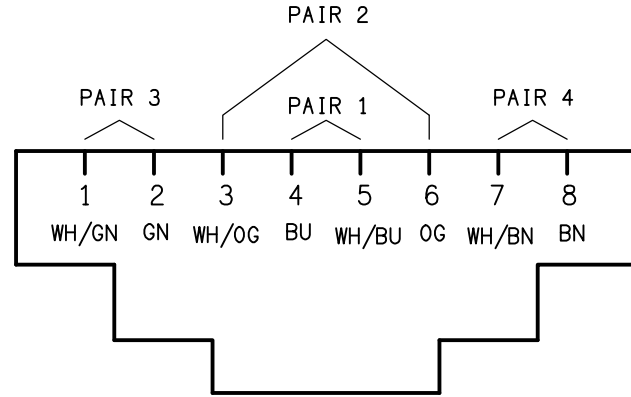
ALL ELECTRICAL PENETRATIONS THROUGH THE ROOF SHEETING ARE TO BE IN LINE WITH THE STRUCTURAL OR MECHANICAL SERVICES PENETRATIONS TO AVOID DEDICATED FLASHINGS FOR THE ELECTRICAL SERVICES.



DETAIL
TYPICAL OUTLET MOUNTINGS
NOT TO SCALE

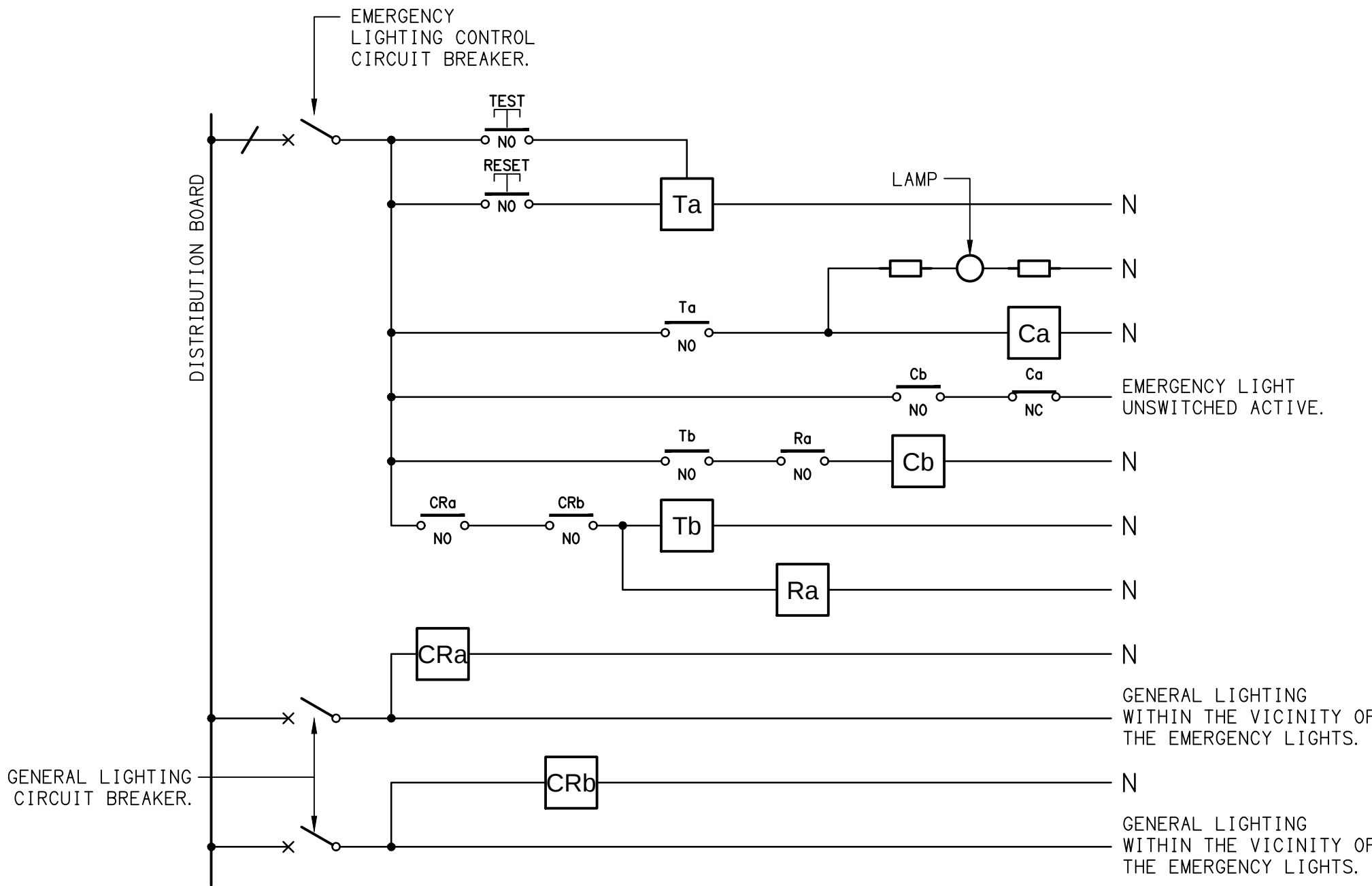
EQUIPMENT:

- 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

NOTES

1. EXTENT OF WORKS

THE ELECTRICAL SERVICES SUB-CONTRACT INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:
- SUPPLY AND INSTALLATION OF ALL COMPONENTS FORMING PART OF THE ELECTRICAL SERVICES.
- CO-ORDINATION.
- INSPECTIONS.
- TESTING AND COMMISSIONING.
- MAINTENANCE.
- AS BUILT DRAWINGS.
- MAINTENANCE MANUAL.
- CABLING, CABLE SUPPORT SYSTEMS AND ACCESS.
- POWER DISTRIBUTION.
- LIGHTING.
- COMMUNICATIONS CABLING.
- PUBLIC ADDRESS SYSTEM.
- INTRUDER DETECTION.
- CCTV.
- FIRE ALARM SYSTEM.
- TV ANTENNA SYSTEM.
ALL MINOR COMPONENTS AND INCIDENTAL WORKS NOT SPECIFICALLY REFERRED TO, HOWEVER NECESSARY TO COMPLETE THE ELECTRICAL SERVICES INSTALLATION SUCH THAT IT IS HANDED OVER COMPLETE, OPERATIONAL AND FIT FOR THE INTENDED USE.

SUPPLY ALL LABOUR, MATERIALS, EQUIPMENT, AND ALL OTHER ITEMS, WHETHER MENTIONED IN DETAIL OR NOT, REQUIRED FOR THE SATISFACTORY COMPLETION OF THE ELECTRICAL SERVICES INSTALLATION, LEAVING IN FULL WORKING ORDER TO THE SATISFACTION OF THE PROJECT MANAGER.

ACCEPT FULL RESPONSIBILITY FOR LIASING, ARRANGING AND CO-ORDINATION OF ALL WORKS THAT HAVE AN EFFECT ON OR WILL BE AFFECTED BY THE ELECTRICAL SERVICES.

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

IN ADDITION TO THE WORKS CURRENTLY DETAILED ON THE ELECTRICAL DOCUMENTS PROVIDE A SUITABLE SYSTEM OF SECURITY LIGHTING TO OPERATE FROM DUSK TO DAWN WITHIN ALL AREAS WHERE THE PUBLIC MAY GAIN ACCESS, INCLUDING CAR PARKING AREAS, BUILDING ENTRANCES AND VEGETATED AREAS. ENSURE THAT ALL EXTERNAL LIGHTING IS IN ACCORDANCE WITH AUSTRALIAN STANDARD – AS4282– CONTROL OF THE OBTRUSIVE EFFECTS OF OUTDOOR LIGHTING SO AS NOT TO CAUSE NUISANCE TO NEARBY RESIDENTS OR PASSING MOTORISTS. ENSURE LIGHTING OVER PUBLICLY ACCESSIBLE PATHWAYS COVERED BY PERMANENT AWNINGS IS IN ACCORDANCE WITH AUSTRALIAN STANDARD – AS/NZS 11 58.3.1 LIGHTING FOR ROADS AND PUBLIC SPACES – PEDESTRIAN AREA (CATEGORY P) LIGHTING – PERFORMANCE AND DESIGN REQUIREMENTS.

2. WORKMANSHIP

ENSURE THAT THE WORK IS PERFORMED BY THE HOLDER OF A CURRENT ELECTRICAL SUB CONTRACTOR LICENSE. ENSURE THE INSTALLATION AND ALL COMPONENTS, FIXTURES, FITTINGS, OUTLETS AND CABLES ARE SUPPLIED AND INSTALLED TO A HIGH STANDARD THROUGHOUT, AND INSTALLED IN A NEAT AND TRADESMAN LIKE MANNER, TO THE CURRENT INDUSTRY STANDARDS. ENSURE ALL MATERIALS AND COMPONENTS OF A SIMILAR TYPE ARE OF THE SAME MANUFACTURER AND INSTALLED IN A UNIFORM MANNER.

IT IS THE ELECTRICAL SUB CONTRACTOR’S RESPONSIBILITY TO ENSURE THAT THE INSTALLATION IS FIT FOR PURPOSE AND IS PROVIDED AS A COMPLETE WORKING INSTALLATION. IT IS THE ELECTRICAL SUB CONTRACTOR’S RESPONSIBILITY TO PROVIDE ALL COMPONENTS, FITTINGS, FIXTURES, SYSTEMS, PROGRAMMING ETC IRRESPECTIVE OF THE LEVEL DETAILED IN THE DOCUMENTS SUCH THAT THE INSTALLATION IS PROVIDED AS A COMPLETE WORKING INSTALLATION.

CONCEAL ALL WIRING AND CONDUITS. EXPOSED CABLING OR CONDUITS ARE GENERALLY NOT ACCEPTABLE. IT IS NOTED THAT CONDUITS WILL NEED TO BE INCLUDED WITHIN THE PRECAST PANELS. ENSURE ALL COMPONENTS, EQUIPMENT AND MATERIALS SUPPLIED ARE NEW, UNUSED, DESIGNED AND SELECTED TO ENSURE SATISFACTORY OPERATION UNDER VARYING ATMOSPHERIC, CLIMATIC, HUMID TROPICAL CONDITIONS WITHOUT DISTORTION AND DETERIORATION IN ANY PART AFFECTING EFFICIENCY AND RELIABILITY OF THE SYSTEMS. DESIGN AND SELECT ALL EQUIPMENT TO PROVIDE THE NECESSARY SAFETY TO HUMAN LIFE AND PROPERTY DURING OPERATION AND MAINTENANCE WITH PARTICULAR ATTENTION GIVEN TO ELECTRICAL SAFETY AND SEGREGATION PRECAUTIONS.

CHECK THE FINISHED PAINTWORK AROUND THE AREA OF EACH INSTALLATION AND TOUCH UP ALL DAMAGED PARTS AND FINISHES AFTER THE INSTALLATION OF THE ELECTRICAL SERVICES.

ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE BUILDER’S PROGRAM. ENSURE ALL FINAL LOCATIONS OF OUTLETS AND FITTINGS ARE CO-ORDINATED ONSITE WITH THE ARCHITECT AND ALL OTHER SERVICES, TO THE APPROVAL OF THE PROJECT MANAGER. ALLOW TO CO-ORDINATE THE FINAL LOCATION OF ALL EQUIPMENT, FITTINGS, & OUTLETS, SUCH THAT THEY ARE INSTALLED IN ACCORDANCE WITH THE AS3000 RESTRICTED ZONES, AND ARE NOT COVERED INAPPROPRIATELY.

ENSURE THAT ALL METAL SURFACES ARE SUITABLY PROTECTED AGAINST CORROSION, AND THAT ALL PLASTIC MATERIALS ARE UV STABILISED.

PROVIDE ALL MATERIALS AS NEW, AND OF THE HIGHEST CLASS AVAILABLE FOR THEIR RESPECTIVE TYPES. ENSURE ALL ASPECTS OF THE WORK ARE OF A HIGH STANDARD THROUGHOUT, AND INSTALLED IN A NEAT AND TRADESMAN LIKE MANNER, TO THE CURRENT INDUSTRY STANDARDS.

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

3. STANDARDS

IRRESPECTIVE OF INFORMATION CONTAINED IN THE ELECTRICAL DOCUMENTS OR IN INSTRUCTIONS, IT IS THE ELECTRICAL SUB CONTRACTOR’S RESPONSIBILITY TO ENSURE ALL ELECTRICAL SERVICES ARE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FOLLOWING. REFER ANY DISCREPANCIES BETWEEN THE REQUIREMENTS OF THE FOLLOWING AND/OR THE ELECTRICAL 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.
- AS/NZS3008.
- AS/NZS1670.1.
- 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.
- QUEENSLAND FIRE AND RESCUE.

NOTES

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. DOCUMENTATION

WITHIN TWO WEEKS OF PRACTICAL COMPLETION PROVIDE THE FOLLOWING DOCUMENTATION.

AS CONSTRUCTED DRAWINGS INCLUDING:
- ELECTRICIANS NAME AND CONTACT DETAILS.
- PROJECT NAME, ADDRESS AND DATE OF PRACTICAL COMPLETION.
- FITTING POSITIONS AND TYPES CROSS REFERENCED TO A FITTING / EQUIPMENT SCHEDULE.
- OUTLET, SWITCH, AND CONNECTION POSITIONS CROSS REFERENCED TO A FITTING / EQUIPMENT SCHEDULE.
- REMOTE DRIVER LOCATIONS.
- CIRCUITS CROSS REFERENCED TO A DISTRIBUTION BOARD SCHEDULE.
- LIGHTING CONTROL CHANNELS CROSS REFERENCED TO A LIGHTING CONTROL SCHEDULE.
- POWER SCHEMATIC.
- SWITCHBOARD SHOP DRAWINGS.
- CABLE ACCESS ROUTES.

A FITTING / EQUIPMENT SCHEDULE INCLUDING:
- FITTING DETAILS INCLUDING THE MANUFACTURERS CATALOGUE NUMBERS WITH THE TYPES CROSS REFERENCED TO THE AS CONSTRUCTED DRAWINGS
- OUTLETS AND SWITCHES INCLUDING THE MANUFACTURERS CATALOGUE NUMBERS WITH THE TYPES CROSS REFERENCED TO THE AS CONSTRUCTED DRAWINGS.

DISTRIBUTION BOARD SCHEDULES CROSS REFERENCED TO THE AS CONSTRUCTED DRAWINGS.

LIGHTING CONTROL SCHEDULE CROSS REFERENCED TO THE AS CONSTRUCTED DRAWINGS.

PHOTOS OF EACH SWITCHBOARD INCLUDING:
- CLOSED POSITION SUCH THAT THE SWITCHBOARD DESIGNATION AND CLEARANCE IS VISIBLE.
- THE SUBMAIN LABEL.
- DOOR/S OPEN ESCUTCHEON/S CLOSED SUCH THAT THE SPARE CAPACITY AND LABELLING IS VISIBLE.
- DOOR/S OPEN ESCUTCHEON/S REMOVED SUCH THAT THE SWITCHGEAR AND INTERNAL CABLING IS VISIBLE.

7. POWER DISTRIBUTION

THE POWER DISTRIBUTION COMPONENT OF THIS CONTRACT INCLUDES A NEW UNDERGROUND SUPPLY FROM THE EXISTING SITE MSB TO A NEW DISTRIBUTION BOARD DB-A. PROVIDE THE EXISTING MSB WITH A NEW MCCB TO SUPPLY THE NEW DISTRIBUTION BOARD DB-A VIA A NEW CABLE ACCESS SYSTEM. THE MSB MODIFICATIONS ARE TO COMPLY WITH AS/NZE 3439 AND DO NOT NEED TO COMPLY WITH AS/NZS 61439.

PROVIDE DB-A WITH MCCBS TO SUPPLY THE INTEGRAL DB-A POWER AND LIGHTING CHASSIS AN THE SUBMAIN TO THE MECHANICAL SWITCHBOARD MSSB. PROVIDE DB-A WITH THE ENERGY MONITORING EQUIPMENT AND 24 SPARE DIN RAIL POLES FOR THE FUTURE CONNECTION SOLAR / BATTERIES AS PER J905 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 DB-T AS A TEMPORARY WEATHERPROOF LOCKABLE DISTRIBUTION BOARD C/W SUPPORT AND MOUNTING TO SUPPLY ALL OF THE EXISTING FIELD LIGHTS SUPPLIED FROM DB-CD. PROVIDE DB-T WITH A SEPARATE EXTERNALLY MOUNTED LOCKABLE WEATHERPROOF HINGED HOUSING CONTAINING CONTROLS FOR THE VIC WALSH OVAL LIGHTING AND THE JACK ROSS OVAL LIGHTING WITH THE SAME LEVEL OF FUNCTION AS THE EXISTING CONTROLS. ALL CONTROLS ARE TO BE PROVIDED WITH CLEAR LABELLING. REDIRECT / EXTEND THE EXISTING DB-CD SUPPLY SUBMAIN TO DB-T. REDIRECT / EXTEND ALL OF THE EXITING VIC WALSH OVAL LIGHTING AND THE JACK ROSS OVAL LIGHTING CIRCUITS AND CONTROLS TO DB-T VIA NEW UNDERGROUND CONDUITS LOCATED TO ALLOW THE DEMOLITION AND CONSTRUCTION OF THE PROPOSED WORKS.

ONCE THE NEW DB-A IS OPERATIONAL REMOVE DB-T AND RESUPPLY ALL OF THE ASSOCIATED FIELD LIGHTING FROM THE DB-A LIGHTING CHASSIS CONTROLLED FROM THE NEW LIGHTING CONTROL PANEL (LCP). ONCE DB-T HAS BEEN REMOVED, REMOVE THE EXISTING SUBMAIN FROM THE MSB USED TO SUPPLY DB-T. ADJUST THE EXISTING MSB DB-CD MCCB TO 80 AMPS AND RELABLE IT EASTERN FIELD LIGHTING. REMOVE THE EXISTING 80 AMP FIELD LIGHTING MCCB AND RECONNECT THE EXITING SUBMAIN FROM DB-FL TO THE 160 / 80- AMP MCCB LABLED FIELD LIGHTING EAST.

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-A.
- MSB MODIFICATIONS.
- DB-T AND ALL ASSOCIATED TEMPORARY WORKS.
- DISTRIBUTION BOARD DB-A.
- SUBMAINS FROM DB-A TO THE MSSB.
- PROVIDE AN INFRARED SCAN OF THE MSB AND ALL DISTRIBUTION BOARDS PROVIDED AS PART OF THE WORKS ONE WEEK AFTER PRACTICAL COMPLETION. PROVIDE A LOGGING CHART RECORDING OF THE DB-A MAINS CURRENT, VOLTAGE, FREQUENCY FOR THE FIRST 14 DAYS FOLLOWING PRACTICAL COMPLETION AND SUBMIT THE THERMOSCAN AND CHART RECORDING AND FOR APPROVAL.
- CIRCUITS.
- ISOLATORS AND OUTLETS.
- TESTING AND COMMISSIONING.
- DB-A SHOP DRAWING.

THE POWER SUPPLY TO THE REMAINDER OF THE SITE MUST BE MAINTAINED AT ALL TIMES THE SITE IS OPERATING. ANY INTERRUPTION TO THE POWER SUPPLY MUST BE ADVISED TO THE OPERATOR IN WRITING TWO WEEKS PRIOR.

ALL SWITCHBOARDS AND SWITCHGEAR ARE TO BE SCHNEIDER TO MATCH THE EXISTING. ALL SWITCHBOARDS ARE TO BE LIGHT GREY. ORANGE SWITCHBOARDS ARE NOT ACCEPTABLE. PROVIDE 92268 KEY LOCKABLE DOORS ON ALL SWITCHBOARDS. ALL SWITCHBOARDS AND CIRCUITS MUST BE UNIQUELY NAMED WITH SWITCHBOARDS PROVIDED WITH A LABEL CONTAINING:
- SOURCE NAME.
- SOURCE OVERLOAD RATING IN AMPS.
- SUBMAIN CABLE TYPE, SIZE, CONFIGURATION AND LENGTH.

ALL REMOVABLE PANELS AND ESCUTCHEONS MUST BE SECURED VIA 1/4 TURN LATCHES THAT REMAIN PART OF THE PANEL / ESCUTCHEON. IT IS NOT ACCEPTABLE TO SECURE REMOVABLE PANELS AND ESCUTCHEONS BY BOLTS, NUTS OR SCREWS.

ALL CIRCUIT BREAKERS AND CIRCUIT SCHEDULES MUST BE LABELLED / CONTAIN THE SUBMAIN / CIRCUIT USE AND LOCATION SUCH THAT THE CONNECTION / OUTLET CAN BE SIMPLY IDENTIFIED.

OUTLETS ARE TO BE PROVIDED WITH A NEAT HAND WRITTEN CIRCUIT DESIGNATION BY INDELIBILE INK ON THE FACEPLATE SUCH THAT IT IS NOT VISIBLE WHEN THE COVER IS CONCEALED.

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

ENSURE ALL THREE PHASE CIRCUITS ARE PROVIDED WITH CORRECT PHASE ROTATION.

ENSURE ALL OUTLETS AND ISOLATORS ARE POSITIONED SUCH THAT THEY ARE NOT COVERED BY THE EQUIPMENT.

NOTES

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.
- TEMPORARY AND PERMANENT FIELD LIGHTING CONTROL.
- TEMPORARY AND PERMANENT FIELD LIGHTING POWER SUPPLIES.
- 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-A TO SUPPORT CAT 6 RJ45 OUTLETS CABLED TO MODULAR PATCH PANELS IN THE COMMUNICATIONS RACK CR-A VIA CAT 6 UTP CABLING. PROVIDE AN UNDERGROUND LOOSE TUBE GEL FILLED 12 CORE OS2 OPTICAL FIBRE CABLES FULLY TERMINATED WITH LC CONNECTORS IN A FOBOT IN CR-A TO A NEW FOBOT IN THE EXISTING COMMUNICATIONS RACK CR-E VIA A NEW CABLE ACCESS WAY.

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

THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:
- COMMUNICATIONS OUTLETS AND CABLING.
- COMMUNICATIONS RACK CR-A.
- PATCH PANELS.
- FOBOTS.
- OPTICAL FIBRE CABLE CONNECTION CR-E TO CR-A.
- LABELLING.
- CABLE ACCESS WAYS.
- TESTING AND COMMISSIONING.

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

10. PUBLIC ADDRESS SYSTEM

THE PUBLIC ADDRESS SYSTEM COMPONENT OF THIS CONTRACT INCLUDES AN AUSTRALIAN MONITOR ZONE MIX MULTI ZONE AUDIO MIXING AND PAGING SYSTEM UTILISING MULTI TAP 100V SPEAKERS AND HORNS CABLED TO POWER AUSTRALIAN MONITOR HPS MULTI CHANNEL AMPLIFIERS MOUNTED WITH IN THE TOP OF COMMUNICATIONS RACK CR-A. MOUNT THE AUSTRALIAN MONITOR MONEM1X8 MIXER WITHIN CR-A. ENSURE THE AMPLIFIER ARE SIZED SUCH THAT EACH CHANNEL IS ONLY LOADED TO 75% WHEN EVERY SPEAKER ATTACHED TO THAT CHANNEL IS TAPPED AT 100%. CONFIGURE THE SPEAKERS WITH THE FOLLOWING CHANNELS / ZONES:
- GYM.
- CLUB ROOM.
- OFFICE.
- MEETING ROOM.
- COACHES ROOMS AND BROAD CAST ROOM.
- LEVEL 2 CORPORATE ROOM.
- REMAINING INTERNAL SPACES.
- EXTERNAL.

PROVIDE THE FOLLOWING SPACES / CHANNELS / ZONES EACH WITH A DEDICATED WALL MOUNTED SELECTION / VOLUME CONTROLLER:
- GYM.
- CLUB ROOM.
- OFFICE.
- MEETING ROOM.
- LEVEL 2 CORPORATE ROOM.

PRIOR TO PRACTICAL COMPLETION, PROVIDE A TEMPORARY MUSIC SOURCE TO AIM / BALANCE THE SPEAKERS AND HORNS ON SITE AS DIRECTED BY THE COLLEGE.

THE PUBLIC ADDRESS SYSTEM COMPONENT OF THIS CONTRACT INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:
- SPEAKERS AND HORNS.
- CABLING.
- MIXER.
- AMPLIFIERS.
- ZONE SELECTION / VOLUME CONTROLLERS.
- AUDIO INPUT PANELS.
- SOFTWARE FOR THIRD PARTY PC.
- PROGRAMMING.
- COMMISSIONING.
- TRAINING.

PROVIDE SHOP DRAWINGS THAT INCLUDES COMPREHENSIVE DETAILS OF THE PROPOSED EQUIPMENT AND COMPONENTS A CABLING SCHEMATIC AND SPECIFIC DETAILS ON ALL COMPONENTS OF THE PA SYSTEM.

COORDINATE THE NETWORK CONNECTIONS AND IP ADDRESS OF THE PA SYSTEM WITH THE OPERATORS IT STAFF.

NOTES

11. INTRUDER DETECTION

THE INTRUDER DETECTION SYSTEM COMPONENT OF THIS CONTRACT INCLUDES AN INNER RANGE INTEGRITI SECURITY SYSTEM WITH 12 MONTHS REMOTE MONITORING. INNER RANGE INTEGRITI SECURITY CONTROLLER, REQUIRED EXPANDERS, INTEGRAL BATTERY BACK UPS AND HOUSINGS ARE TO BE WALL MOUNTED WITHIN THE LEVEL 2 SERVER ROOM. ENSURE THE HOUSING ARE LARGE ENOUGH SUCH THE GPOS AND ALL REQUIRED POWER SUPPLIES ARE CONTAINED WITHIN THE HOUSINGS.

PROVIDE MULTIPLE ARMING / DISARMING KEY PANELS AND CONFIGURE / PROGRAM THE INTRUDER DETECTION SYSTEM AS DIRECTED BY THE OPERATOR ON SITE.

THE INTRUDER DETECTION SYSTEM COMPONENT OF THIS CONTRACT INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:
- INNER RANGE INTEGRITI SECURITY CONTROLLER, REQUIRED EXPANDERS, INTEGRAL POWER SUPPLIES, BATTERY BACK UPS AND HOUSINGS.
- CABLING.
- DETECTORS.
- PIEZO SIRENS.
- EXTERNAL SATELLITE SIREN.
- ARMING / DISARMING KEY PANELS.
- PROGRAMMING.
- COMMISSIONING.
- TRAINING.
- 12 MONTH MONITORING.

AS PART OF THE TENDER CONFIRM THE STANDARD AFTER HOURS CALL OUT FEE.

PROVIDE SHOP DRAWINGS THAT INCLUDES COMPREHENSIVE DETAILS OF THE PROPOSED EQUIPMENT AND COMPONENTS A CABLING SCHEMATIC AND SPECIFIC DETAILS ON ALL COMPONENTS OF THE INTRUDER DETECTION SYSTEM.

COORDINATE THE NETWORK CONNECTIONS AND IP ADDRESS OF THE INTRUDER DETECTION SYSTEM WITH THE OPERATORS IT STAFF.

12. CCTV

PROVIDE A FULLY IP BASED SURVEILLANCE SOLUTION COMPRISING A HIKVISION DS-7732N1-14/24P NVR MOUNTED IN CR-A CONNECTED TO THE CAMERAS VIA CAT 6 CABLING TO A PATCH PANEL IN CR-A. PROVIDE THE NVR WITH SUFFICIENT STORAGE TO RECORD ALL OF THE CAMERAS FOR 60 DAYS. PROVIDE A CAT 6 COMMUNICATIONS OUTLET, PATCH LEAD AND FLY LEAD FOR EACH CAMERA. THE CCTV CAT 6 CABLING IS TO BE UNIQUELY COLOURED AND TERMINATED ON A DEDICATED PATCH PANEL IN CR-A.

CAMERAS ARE TO BE MOUNTED OVER THE MOUNTING BOX WITH THE FACEPLATE REMOVED WITH A CONCEALED FLY LEAD CONNECTING THE OUTLET TO THE CAMERA.

THE CCTV SYSTEM IS TO BE UNDERTAKEN BY A SPECIALIST SECURITY CONTRACTOR THAT IS FAMILIAR WITH AND EXPERIENCED IN INSTALLING AND COMMISSIONING THE HIKVISION EQUIPMENT.

PROVIDE A 19-INCH WALL MOUNTED MONITOR ADJACENT TO CR-A TO DISPLAY THE CCTV IMAGES. CONNECT THE NVR TO THE COMMUNAL INTERNET SERVICE SUCH THAT THE CCTV SYSTEM CAN BE SECURELY ACCESSED REMOTELY BY THE OPERATOR.

THE CCTV COMPONENT OF THIS CONTRACT INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:
- CAMERAS – NVR.
- LICENSING FOR FIVE YEARS BEYOND THE DATE OF PRACTICAL COMPLETION.
- MONITOR.
- CABLING.
- SOFTWARE FOR THIRD PARTY PC.
- PROGRAMMING.
- COMMISSIONING.
- TRAINING.

PROVIDE SHOP DRAWINGS THAT INCLUDES COMPREHENSIVE DETAILS OF THE PROPOSED EQUIPMENT AND COMPONENTS A CABLING SCHEMATIC AND SPECIFIC DETAILS ON ALL COMPONENTS OF THE CCTV SYSTEM.

ENSURE ALL CCTV WORK IS COMPLETED BY A CURRENT MEMBER ASIAL WHO HOLDS THE APPROPRIATE SECURITY EQUIPMENT INSTALLER LICENCE. PROVIDE A COPY OF THE ASIAL MEMBERSHIP AND SECURITY EQUIPMENT INSTALLER LICENCE OF EACH STAFF MEMBER WORKING ON THE CCTV INSTALLATION COMPONENT OF THE PROJECT FOR APPROVAL PRIOR TO THE COMMENCEMENT OF WORK. INCLUDE A COPY OF SUCH LICENSES IN THE OPERATIONS AND MAINTENANCE MANUAL.

COORDINATE THE NETWORK CONNECTIONS AND IP ADDRESS OF ALL CCTV EQUIPMENT WITH THE OPERATORS IT STAFF.

13. FIRE ALARM SYSTEM

THE FIRE ALARM SYSTEM COMPONENT OF THIS CONTRACT INCLUDES A STANDALONE AS/NZS 1670.1 COMPLIANT NON BRIGADE MONITORED ADDRESSABLE FIRE ALARM SYSTEM.

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 EWCIE.
- SYSTEM INTERFACE DIAGRAM.
- MANUAL CALL POINT ON THE FDCIE.
- ADDRESSABLE 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

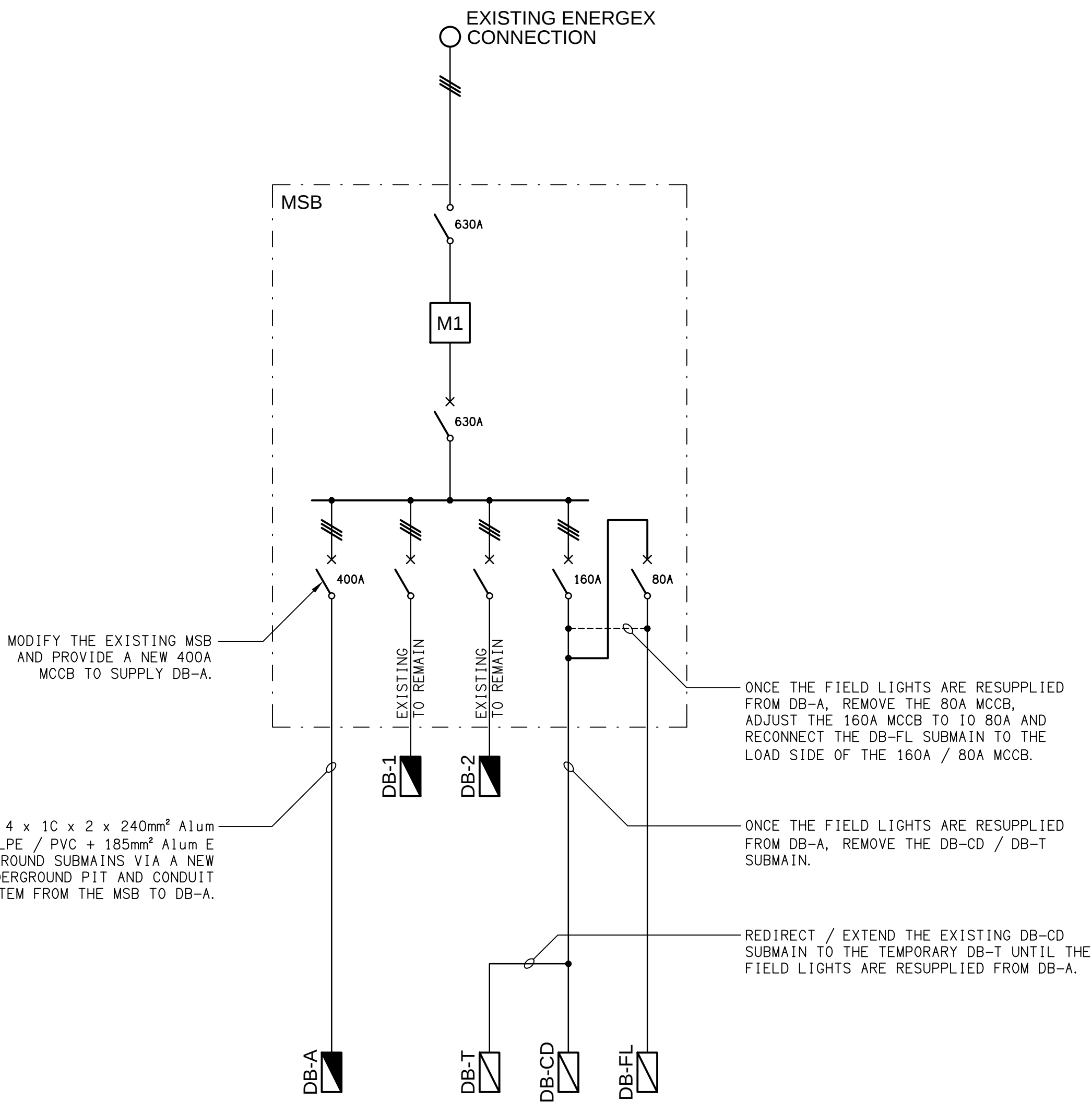
PRIOR TO PRACTICAL COMPLETION CERTIFY THE INSTALLATION ON A FORM 12 AS COMPLYING WITH THE RELEVANT CODES AND STANDARDS AND INCLUDE A COPY OF THE CERTIFICATION IN THE MANUAL.

14. TV ANTENNA

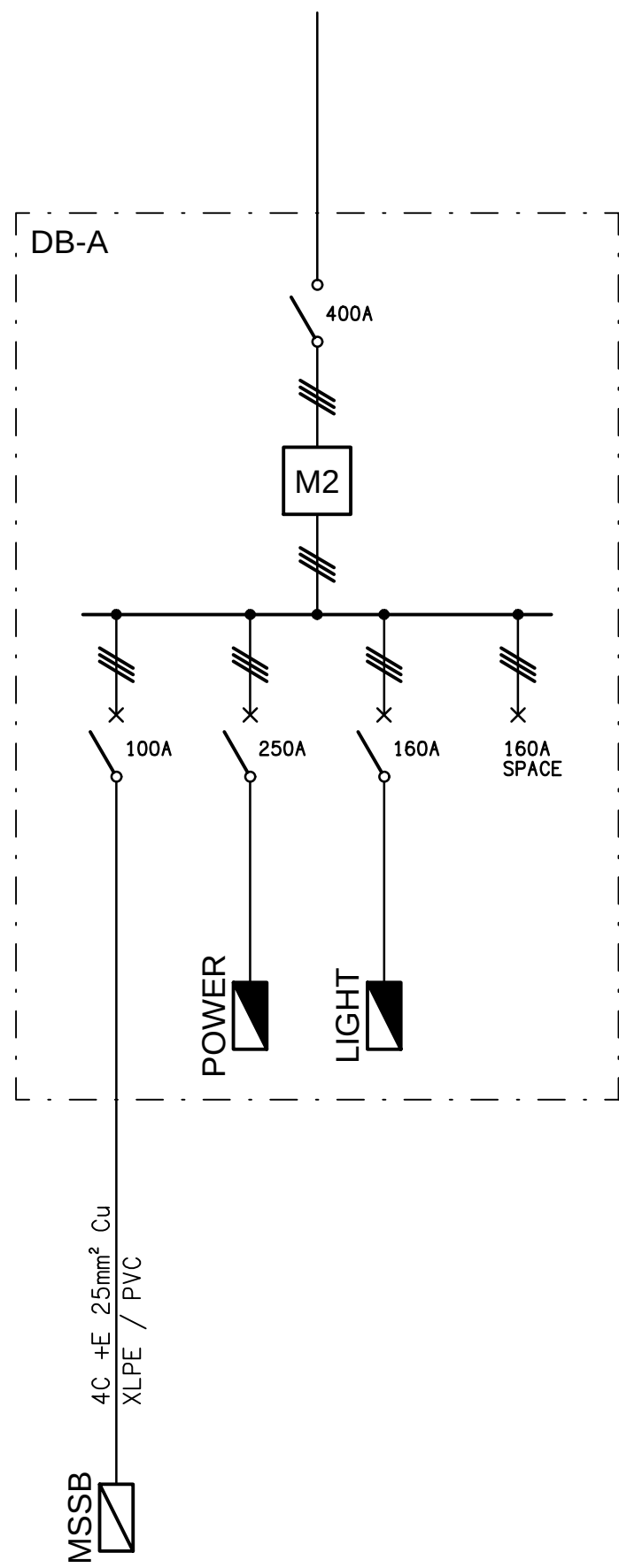
PROVIDE A ROOF MOUNTED TELEVISION ANTENNA TO RECEIVE AND DISTRIBUTE THE LOCALLY AVAILABLE FREE TO AIR TELEVISION SERVICES TO THE MATV OUTLETS. THE MATV HEADEND AND DISTRIBUTION EQUIPMENT IS TO BE MOUNTED WITHIN CR-A.

THE TV ANTENNA SYSTEM COMPONENT OF THIS CONTRACT INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:
- TV ANTENNA AND DOWN LEAD.
- TV OUTLET.
- CABLE ACCESS WAYS.
- TESTING AND COMMISSIONING.

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103 CROSBY ROAD, ALBION, QUEENSLAND		PROJECT NO: C3657a		DRAWING NO: E02	
		REVISION: A			



SCHEMATIC
MSB CONFIGURATION
NOT TO SCALE



SCHEMATIC
DB-A CONFIGURATION
NOT TO SCALE

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BRISBANE GOLD COAST

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Web: www.edg.net.au

PROJECT:

BROTHERS RUGBY CLUB - REDEVELOPMENT

103 CROSBY ROAD, ALBION, QUEENSLAND

A	TENDER	70/08/2026
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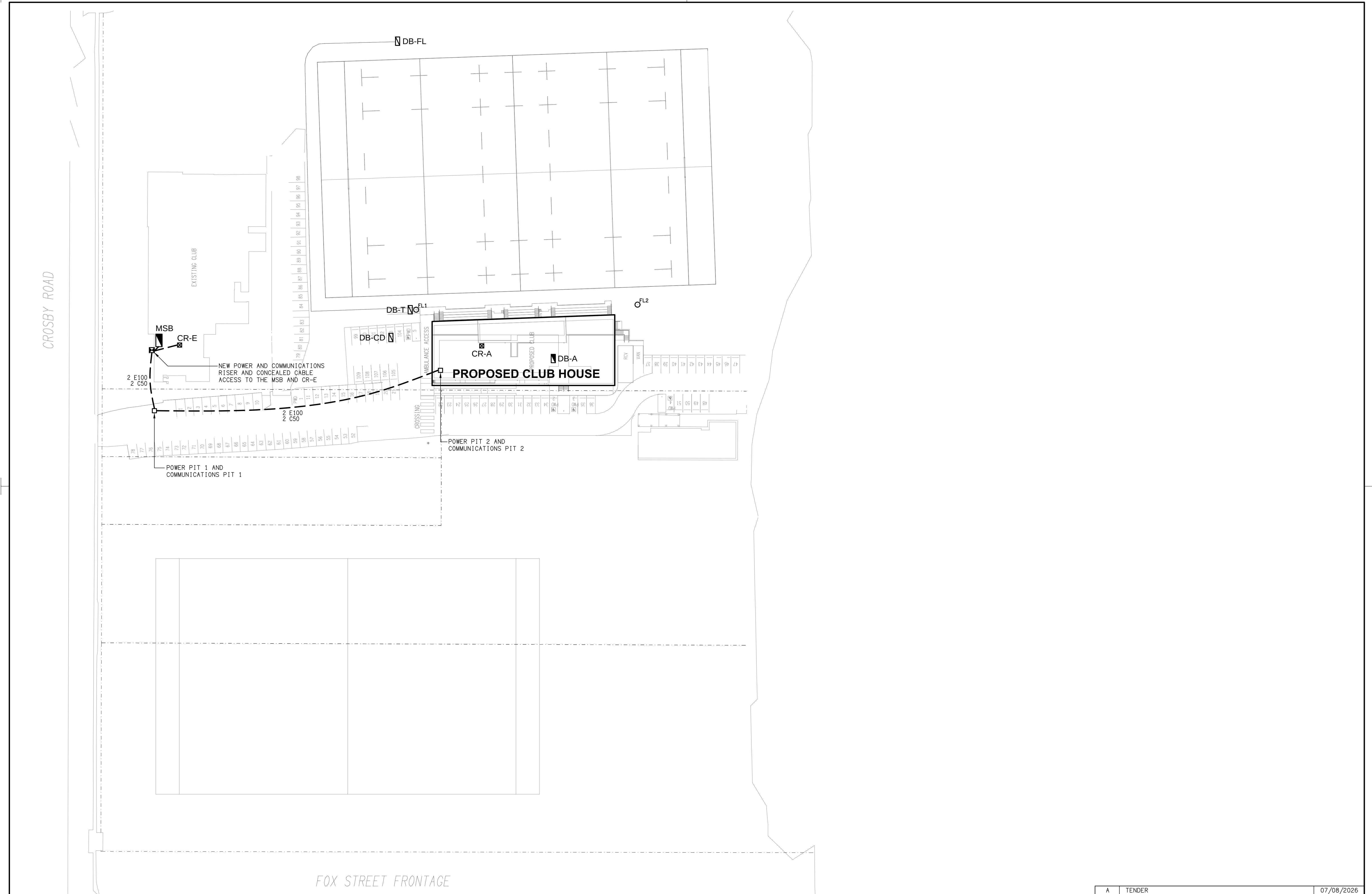
DRAWING:
**ELECTRICAL SERVICES
POWER SCHEMATICS**

SCALE:
NOT TO SCALE AT A1

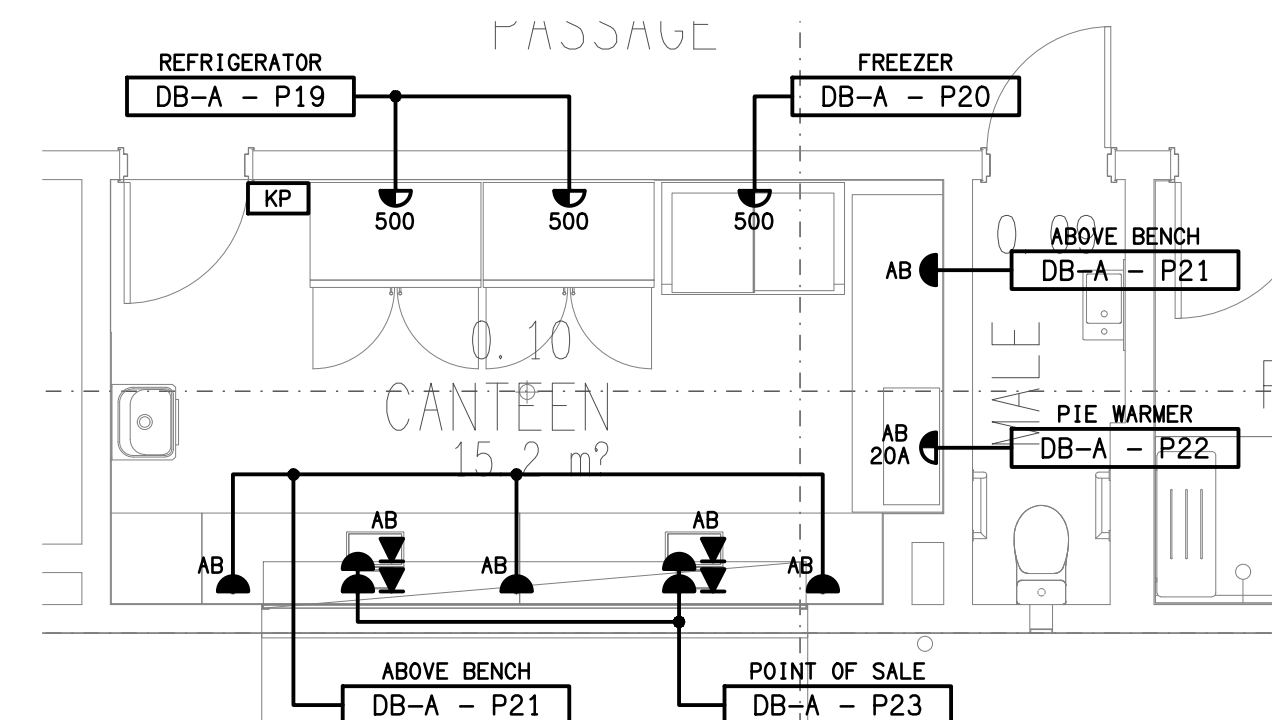
PROJECT NO:
C3657a

DRAWING NO:
E03

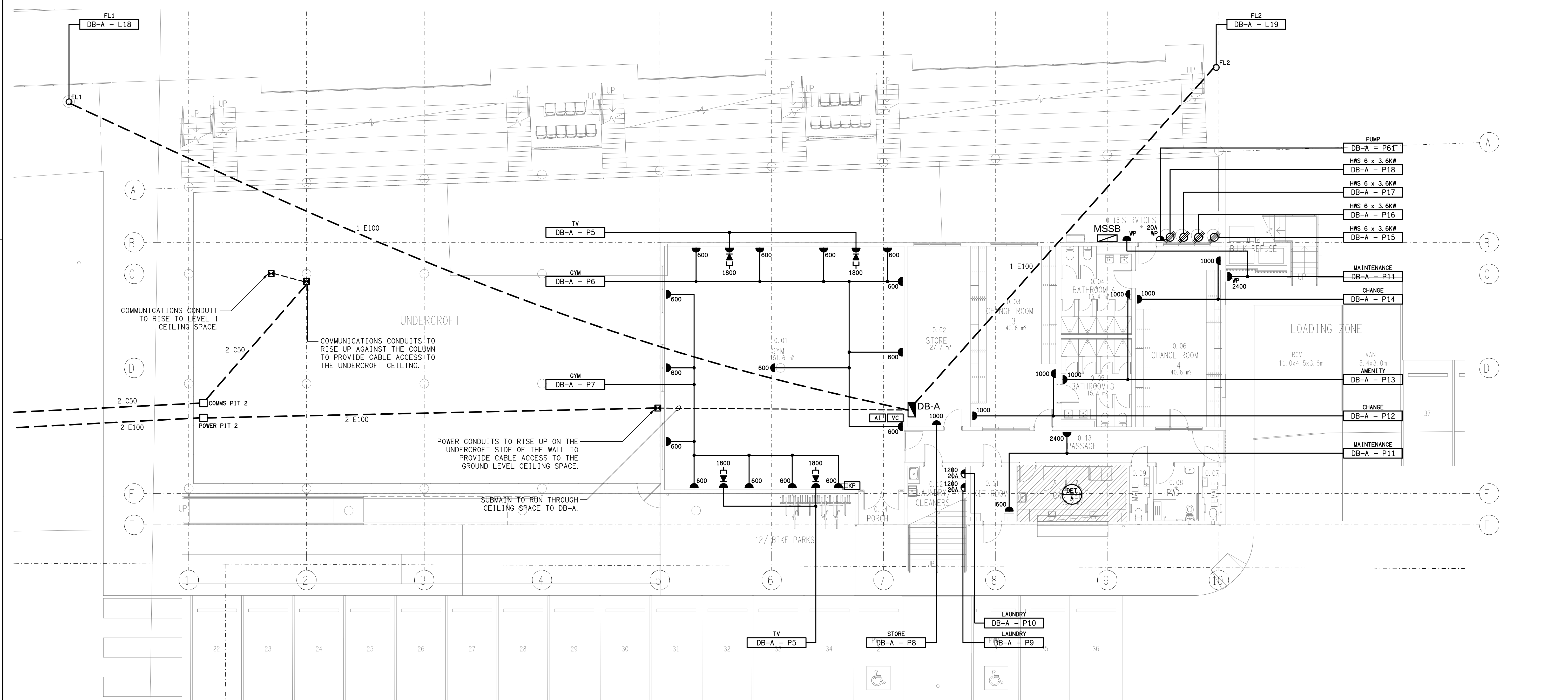
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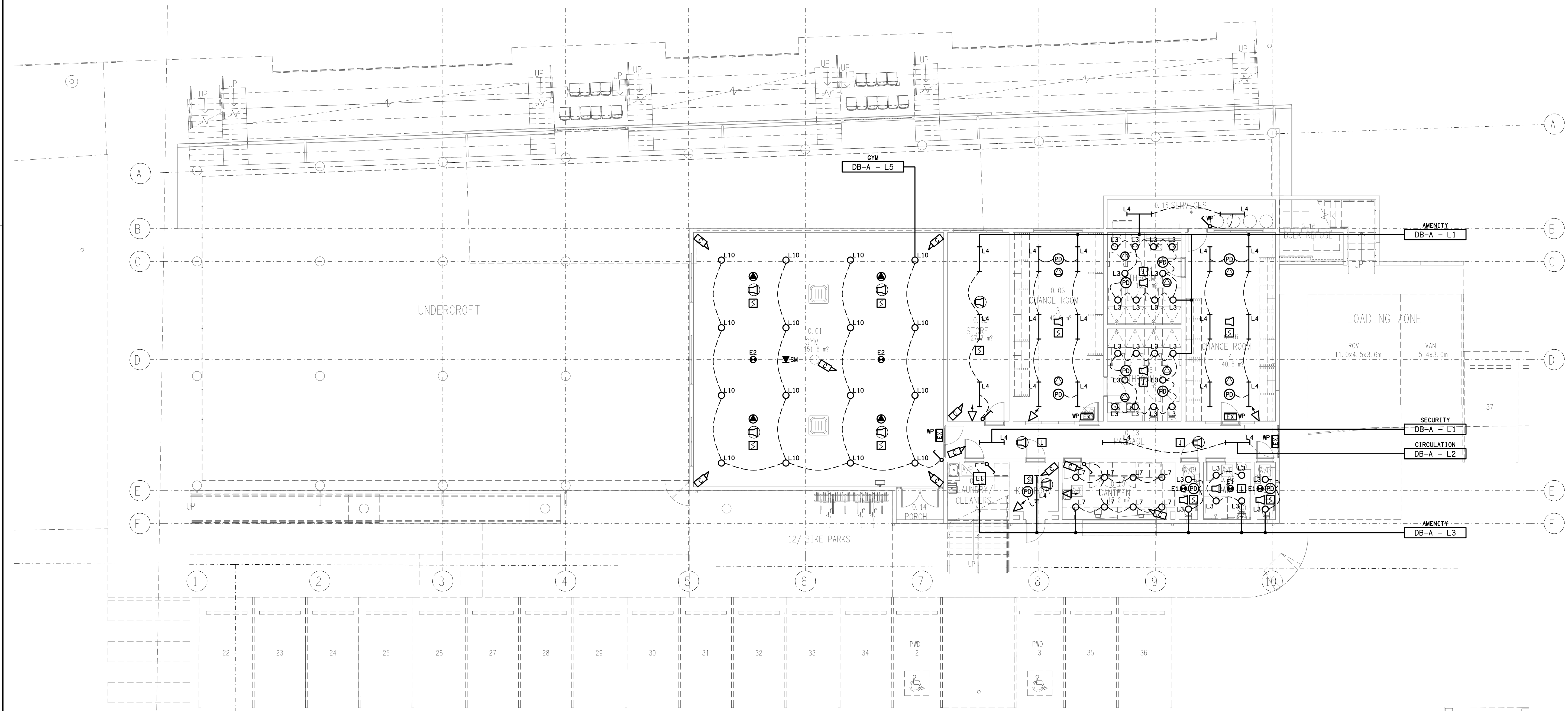


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DETAIL A
CANTEEN FLOOR PLAN
SCALE 1:50





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Phone: (07) 3278 4375
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Web: www.edg.net.au

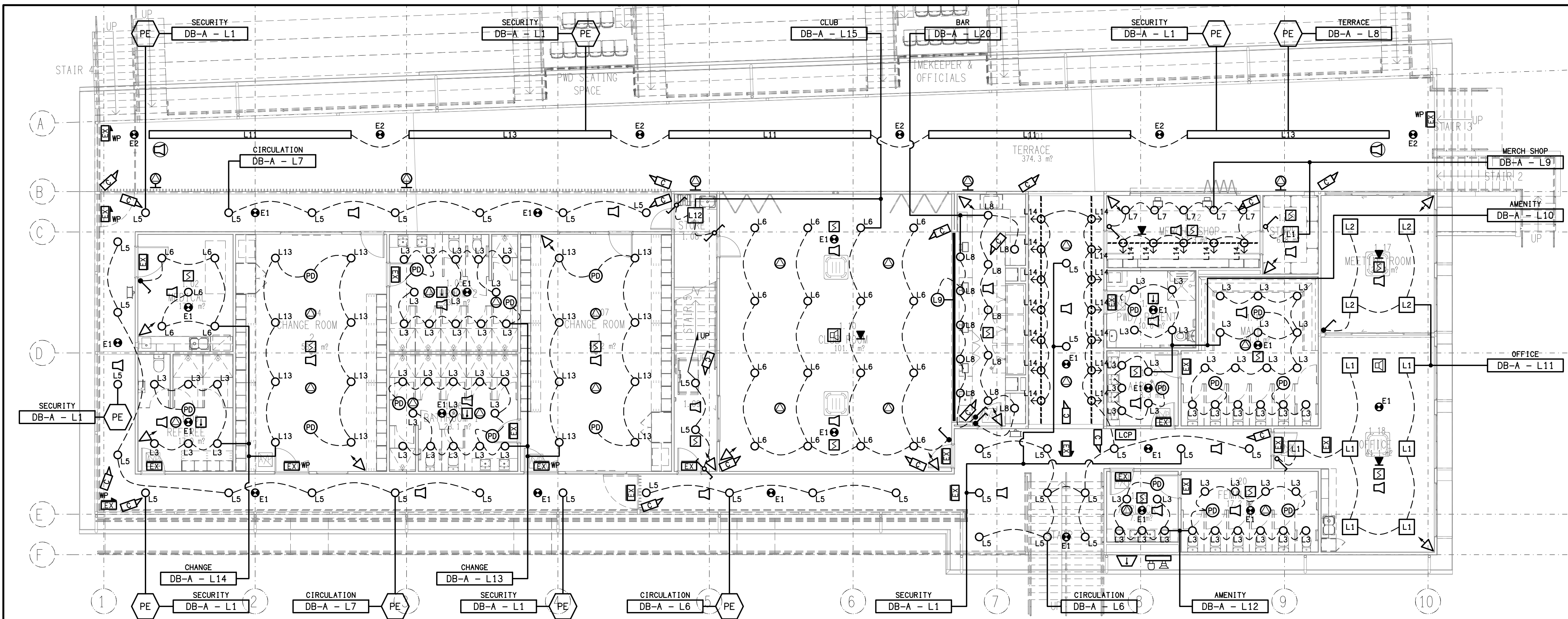
PROJECT:
BROTHERS RUGBY CLUB - REDEVELOPMENT

103 CROSBY ROAD, ALBION, QUEENSLAND

B	TENDER	07/08/2026
REV:	DESCRIPTION:	DATE:

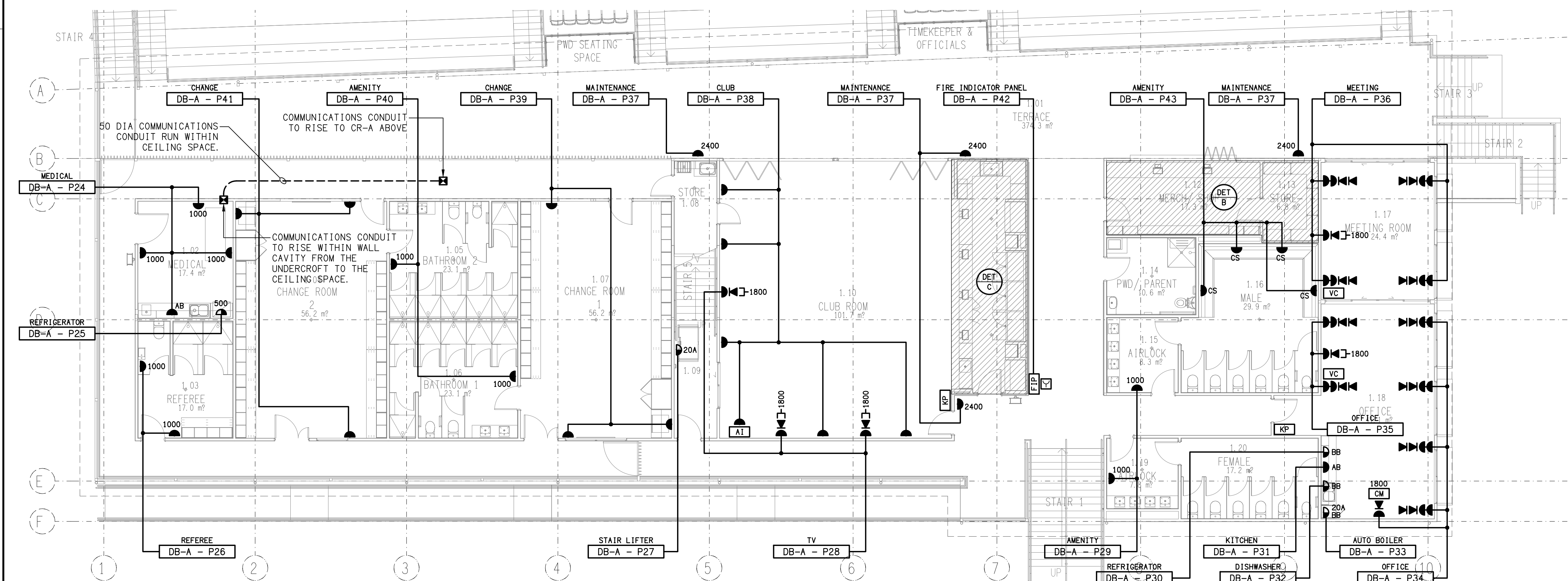
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ELECTRICAL SERVICES
GROUND LEVEL REFLECTED CEILING PLAN

SCALE: 1:100 UNO	AT A1	PROJECT NO: C3657a	DRAWING NO: E06	REVISION: B
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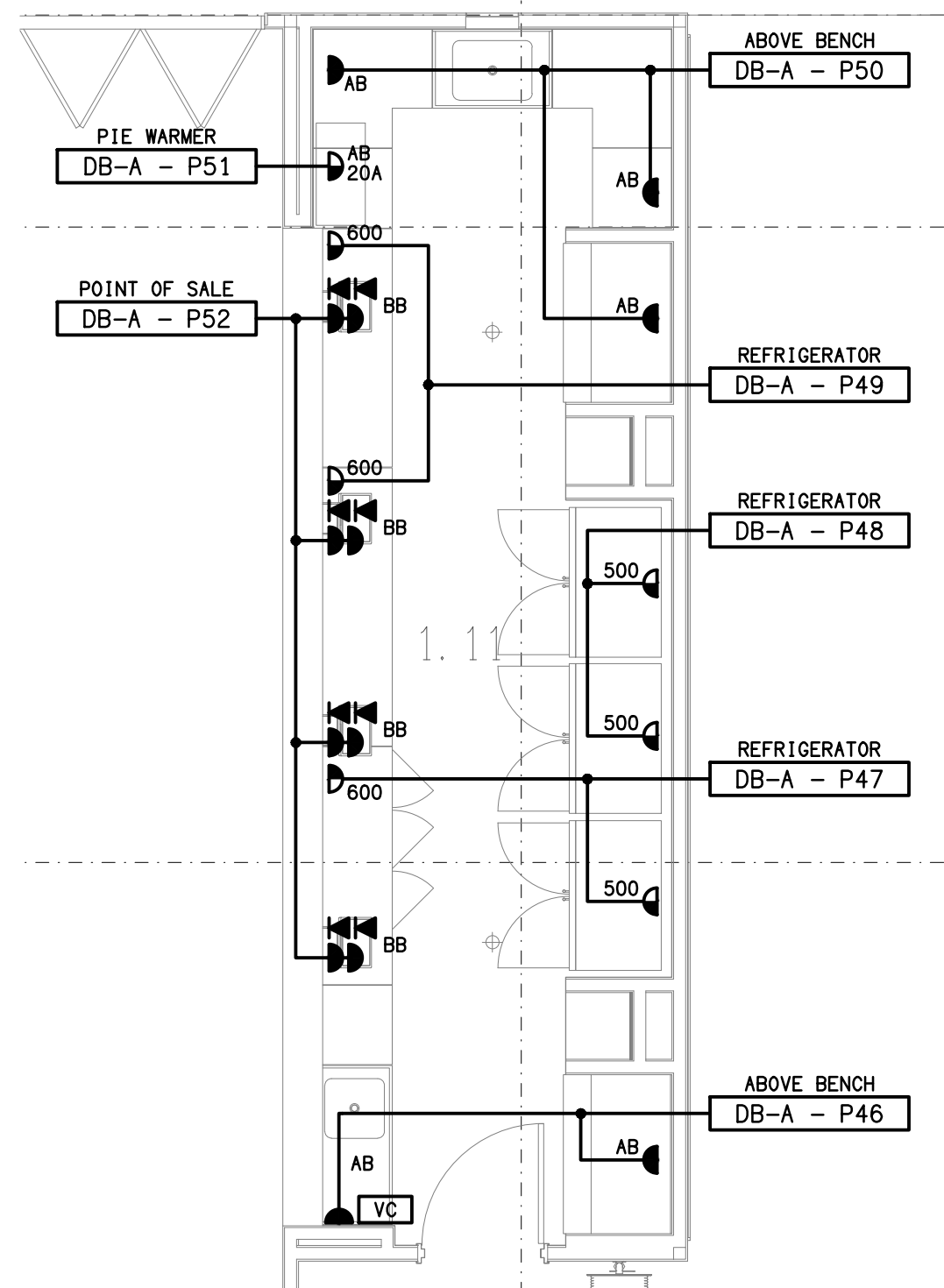
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LEVEL 1
SCALE 1: 100



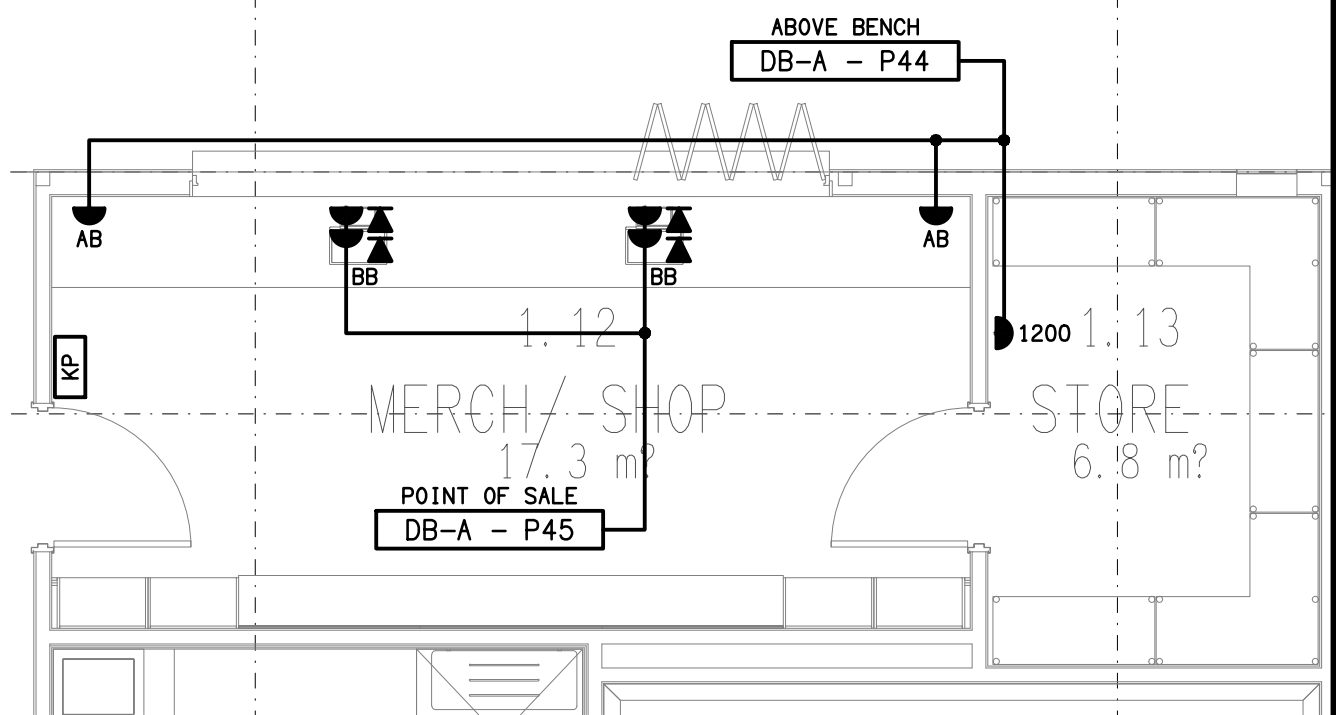
FLOOR PLAN

LEVEL 1
SCALE 1: 100



DETAIL C

CLUB ROOM BAR FLOOR PLAN
SCALE 1: 50



DETAIL B

MERCH SHOP FLOOR PLAN
SCALE 1: 50

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PROJECT:
BROTHERS RUGBY CLUB - REDEVELOPMENT

103 CROSBY ROAD, ALBION, QUEENSLAND

B TENDER 07/08/2026
REV: DESCRIPTION: DATE:

DRAWING:
**ELECTRICAL SERVICES
LEVEL 1 PLANS**

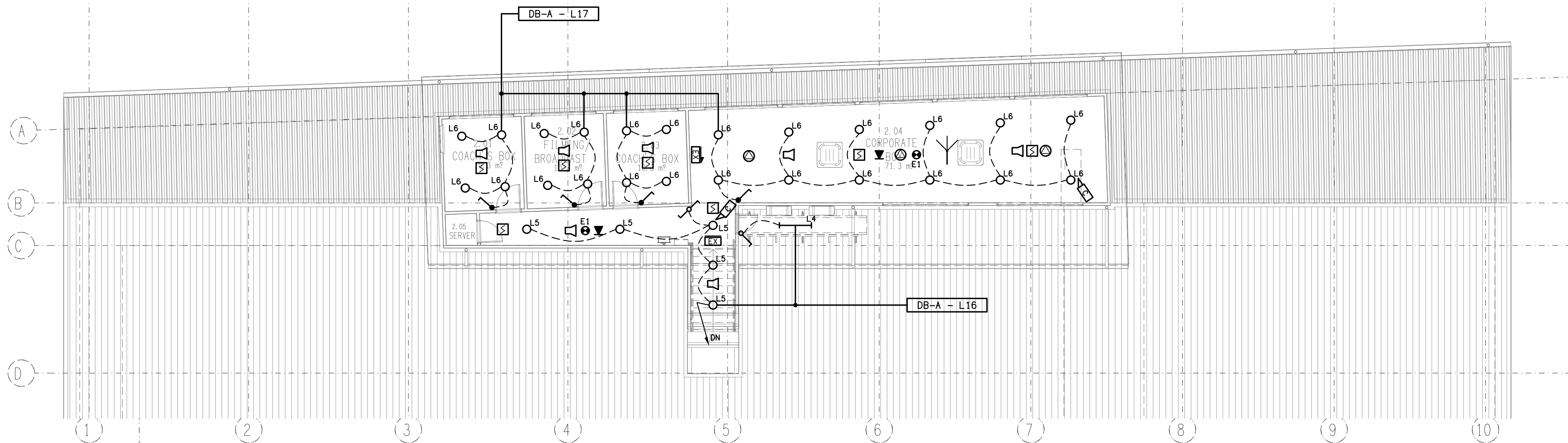
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AT A1

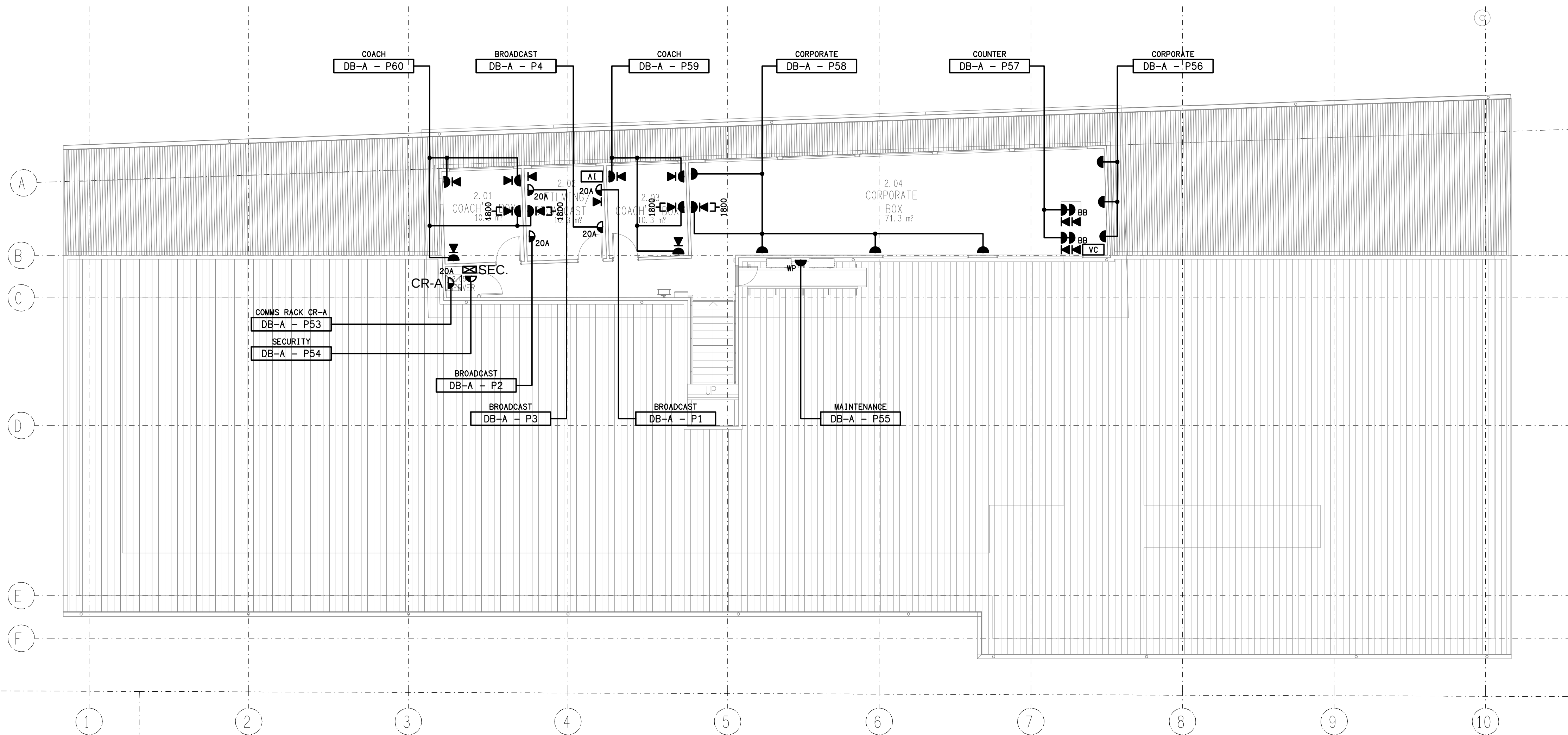
PROJECT NO:
C3657a

DRAWING NO:
E07

REVISION:
B



REFLECTED CEILING PLAN
LEVEL 2
SCALE 1: 100



FLOOR PLAN
LEVEL 2
SCALE 1: 100