



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

C3336a - FLEXIBLE LEARNING CENTRE, IPSWICH - RENOVATIONS

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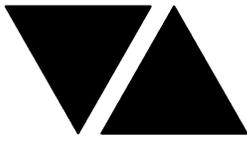
ELECTRICAL SERVICES CONTRACT DOCUMENT SCHEDULE

REVISION A - 11 NOVEMBER 2024

ISSUING INFORMATION		DATE OF ISSUE									
DAY MONTH YEAR REASON FOR ISSUE	11										
	11										
	24										
	P										
A = APPROVAL C = CONSTRUCTION N = COORDINATION P = PRELIMINARY T = TENDER											

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DOCUMENTS		REVISION									
C3336a-E01.dwg	LEGEND & SITE PLAN	A									
C3336a-E02.dwg	NOTES	A									
C3336a-E03.dwg	INDUSTRIAL ARTS KITCHEN PLAN	A									
C3336a-E04.dwg	INDUSTRIAL ARTS KITCHEN RCP	A									
C3336a-E05.dwg	AMENITIES	A									
C3336a-0001.xls	CONTRACT DOCUMENT SCHEDULE	A									
C3336a-0002.xls	EQUIPMENT SCHEDULE	A									
C3336a-0004.xls	DISTRIBUTION BOARD DB-A SCHEDULE	A									



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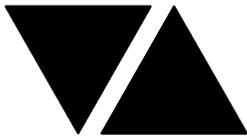
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ELECTRICAL EQUIPMENT SCHEDULE

REVISION A - 11 NOVEMBER 2024

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	40W 4000K LED	1200 X 300 LAY IN FLAT PLATE LED FITTING C/W REMOTE DRIVER MOUNTED IN A FLUSH RECESSED PLASTER BOARD KIT	WHITE TRIM	EQUAL TO GAMMA ILLUMINATION PHANTOM 884501	A
L2	10W 4000K LED	RECESSED DOWNLIGHT C/W INTEGRAL DRIVER	WHITE TRIM	ATOM LIGHTING AT9027 TRI	A
L3	40W 4000K LED	1200 X 300 LAY IN FLAT PLATE LED FITTING C/W REMOTE DALI DIMMABLE DRIVER MOUNTED IN A FLUSH RECESSED PLASTER BOARD KIT	WHITE TRIM	EQUAL TO GAMMA ILLUMINATION PHANTOM 884501	A
L4	36W LED 4000K	SURFACE MOUNTED IP66 1200 LONG BATTEN C/W INTEGRAL DRIVER	LIGHT GREY	EQUAL TO GAMMA STORM 1558-CCT-36W	A
E1	LED	EMERGENCY LIGHT: RECESSED NON-MAINTAINED EMERGENCY LIGHT. AS2293 CLASSIFICATION C0-D40 - C90-D40.	WHITE	EQUAL TO CLEVERTRONICS LLIFE	A
EX	LED	BACK OF HOUSE 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	EQUAL TO CLEVERTRONICS LCFLLED	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	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	A
ONE-WAY DALI LIGHT SWITCH / POT DIMMER		ONE-WAY DALI LIGHT SWITCH / POT DIMMER C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNTED AT 1000mm AFFL UNLESS NOTED OTHERWISE.	WHITE	SMARTSCAPE DALI-RD20-M ROTARY DIMMER	A
WALL MOUNTED FAN		WALL MOUNTED FAN C/W A WIRED CONTROLLER MOUNTED AT 1000 AFFL IMMEDIATELY BELOW THE FAN. CONCEAL THE CONTROLLER CABLING	BLACK	FANCO PWFC750DC	A



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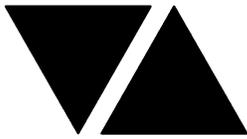
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TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
SINGLE POWER OUTLET		SINGLE POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNT AT 300mm AFFL U.N.O. RATING 10A U.N.O.	WHITE	CLIPSAL C2000 SERIES	A
DOUBLE POWER 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
IP66 SINGLE POWER OUTLET		IP66 OUTLET C/W SREW FIXED ENGRAVED TEFOLITE CIRCUIT IDENTIFICATION MOUNT AT 300mm AFFL U.N.O. RATING 10A U.N.O.	GREY	CLIPSAL 56 SERIES	A
SINGLE 15A POWER OUTLET SUSPENDED (SUS)		SINGLE 15A POWER OUTLET SUSPENDED TO 1600 AFFL UNLESS NOTED OTHERWISE VIA A 3MM STAINLESS STEEL WIRE ROPE.	WHITE	CLIPSAL "56 SERIES" 56SPO315	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
EMERGENCY SHUT OFF (ES)		EMERGENCY SHUT OFF. STAINLESS STEEL FACE PLATE WITH A RED LOCKING MUSHROOM PUSH BUTTON, TO ISOLATE DB-A CHASSIS 1 AS PER THE DB-A SCHEMATIC. ENGRAVE THE FACEPLATE WITH "EMERGENCY SHUTDOWN" IN 10mm HIGH RED LETTERS. ALL EMERGENCY SHUT OFFS ARE TO BE CONFIGURED TO WORK IN PARNELL THE PUSH BUTTON IS TO BE A TWIST TO RESET TYPE. MOUNT THE ES AT 1800 AFFL. REFER TO THE ESO DETAIL			A
DB-A		DISTRIBUTION BOARD DB-A AS PER THE DB-A SCHEDULE, SCHEMATIC AND NOTES. PROVIDE A SHOP DRAWING OF DB-A FOR APPROVAL.			A
MSB		EXISTING MAIN SWITCHBOARD TO BE PROVIDED WITH A NEW MCB TO SUPPLY DB-A. THE NEW MCB IS TO BE THE SAME BRAND AND SERIES AS THE EXISTING SWITCHGEAR			A
COMMUNICATIONS RACK (CR)		EXISTING COMMUNICATIONS RACK AND WALL MOUNTED SECURITY EQUIPMENT			A



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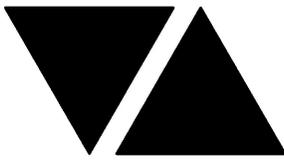
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ELECTRICAL EQUIPMENT SCHEDULE

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www.edg.net.au/Links/Lighting.htm

TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
COMMUNICATIONS OUTLET		RJ45 CAT-6 COMMUNICATIONS OUTLET, CABLED BACK TO A NEW CAT 6 PATCH PANEL IN THE COMMUNICATIONS RACK CR 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 PROVIDE EACH COMMUNICATIONS OUTLET WITH A 1200 LONG PRETERMINATED PATCH LEAD THE SAME COLOUR AS THE EXISTING PATCH LEADS. THE COMMUNICATIONS OUTLETS AND PATCH PANEL ARE TO MATCH THE EXISTING IN STYLE AND BRAND.	WHITE	CLIPSAL "C2000 SERIES"	A
INTRUDER DETECTOR		DUAL-TECHNOLOGY 360 DEG MOVEMENT DETECTORS CEILING RECESSED MOUNTED AS PER THE MANUFACTURER'S SPECIFICATION. CONNECT TO THE SECURITY EQUIPMENT WITH ONE DETECTOR PER ZONE. SUBMIT DETAILS OF THE DETECTORS INCLUDING THE MOUNTING ARRANGEMENTS FOR APPROVAL PRIOR TO ORDERING.			A



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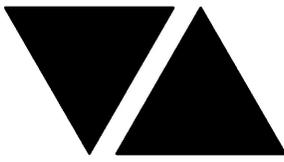
DISTRIBUTION BOARD DB-A (GROUND NORTH)

REVISION A - 11 NOVEMBER 2024

							REV
FAULT CURRENT:		6KA USING CASCADING		MAIN SWITCH:		250A NON AUTO LOAD BREAK	A
CHASSIS SIZE:		CHASSIS 1 - 84 POLE CHASSIS 2 & 3 EACH 72 POLES		SUPPLIED FROM:		MSB	A
CHASSIS RATING:		250A		SUPPLY CABLE:		4C70	A
PHASES:		A					A
<p>PROVIDE THE DB WITH A FULL WIDTH EMPTY DIN RAIL TO ACCOMMODATE FUTURE CONTACTORS AND CONTROLS IN ADDITION TO THE CONTROLS IT PROVIDED AS PART OF THE INITIAL FITOUT. PROVIDE THE DB WITH AN AS2293 EMERGENCY LIGHTING CONTROL SYSTEM TO CONTROL THE ASSOCIATED EMERGENCY LIGHTS. EACH CUBICAL MUST BE AT LEAST 700MM WIDE. REFER TO THE NOTES AND THE SCHEMATIC FOR ADDITIONAL REQUIREMENTS.</p>							A
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE (mm ²)	LOCATION	CIRCUIT USE	A
P1	1	20	RCBO	2.5	INDUSTRIAL ARTS	CHARGER	A
P2	1	20	RCBO	2.5	INDUSTRIAL ARTS	CHARGER	A
P3	1	20	RCBO	2.5	INDUSTRIAL ARTS	GPO	A
P4	1	20	RCBO	2.5	INDUSTRIAL ARTS	20A	A
P5	3	20	RCBO	2.5	INDUSTRIAL ARTS	3PH	A
P6	1	20	RCBO	2.5	INDUSTRIAL ARTS	20A	A
P7	1	20	RCBO	2.5	INDUSTRIAL ARTS	20A	A
P8	3	20	RCBO	2.5	INDUSTRIAL ARTS	3PH	A
P9	1	20	RCBO	2.5	INDUSTRIAL ARTS	20A	A
P10	1	20	RCBO	2.5	INDUSTRIAL ARTS	20A	A
P11	1	20	RCBO	2.5	INDUSTRIAL ARTS	GPO	A
P12	1	20	RCBO	2.5	INDUSTRIAL ARTS	RSD	A
P13	1	20	RCBO	2.5	EXTERNAL	GPO	A
P14	3	40	RCBO	6.0	EXTERNAL	3PH	A
P15	1	20	RCBO	2.5	EXTERNAL	GPO	A
P16	1	20	RCBO	2.5	INDUSTRIAL ARTS	GPO	A
P17	1	20	RCBO	2.5	INDUSTRIAL ARTS	SUS	A
P18	1	20	RCBO	2.5	INDUSTRIAL ARTS	SUS	A
P19	1	20	RCBO	2.5	INDUSTRIAL ARTS	SUS	A
P20	1	20	RCBO	2.5	INDUSTRIAL ARTS	SUS	A
P21	1	20	RCBO	2.5	INDUSTRIAL ARTS	SUS	A
P22	1	20	RCBO	2.5	INDUSTRIAL ARTS	GPO	A
P23	1	20	RCBO	2.5	INDUSTRIAL ARTS	TV	A
P24	1	20	RCBO	2.5	INDUSTRIAL ARTS	GPO	A
P25	1	20	RCBO	2.5	INDUSTRIAL ARTS	20A	A
P26	1	20	RCBO	2.5	INDUSTRIAL ARTS	20A	A
P27	3	20	RCBO	2.5	INDUSTRIAL ARTS	3PH	A
P28	1	20	RCBO	2.5	INDUSTRIAL ARTS	20A	A
P29	1	20	RCBO	2.5	INDUSTRIAL ARTS	20A	A
P30	1	20	RCBO	2.5	INDUSTRIAL ARTS	GPO	A
P31	1	20	RCBO	2.5	EXTERNAL	COFFEE	A
P32	3	32	RCBO	4.0	EXTERNAL	COFFEE	A
P33	1	20	RCBO	2.5	KITCHEN	CLEANING	A
P34	1	20	RCBO	2.5	KITCHEN	SERVERY	A
P35	1	20	RCBO	2.5	EXTERNAL	WASHUP GPO	A
P36	1	20	RCBO	2.5	EXTERNAL	DRINK FOIUNTAIN	A
P37	1	20	RCBO	2.5	KITCHEN	DW	A
P38	1	20	RCBO	2.5	EXTERNAL	DW FAN	A
P39	3	20	RCBO	2.5	EXTERNAL	3X 3.6KW HWS	A

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Pages inc. any attach. 1 of 2



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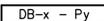
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DISTRIBUTION BOARD DB-A (GROUND NORTH)

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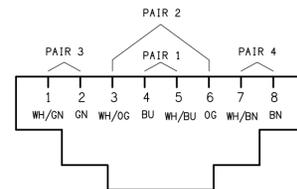
							REV	
FAULT CURRENT:		6KA USING CASCADING			MAIN SWITCH:		250A NON AUTO LOAD BREAK	A
CHASSIS SIZE:		CHASSIS 1 - 84 POLE CHASSIS 2 & 3 EACH 72 POLES			SUPPLIED FROM:		MSB	A
CHASSIS RATING:		250A			SUPPLY CABLE:		4C70	A
PHASES:		A						A
PROVIDE THE DB WITH A FULL WIDTH EMPTY DIN RAIL TO ACCOMMODATE FUTURE CONTACTORS AND CONTROLS IN ADDITION TO THE CONTROLS IT PROVIDED AS PART OF THE INITIAL FITOUT. PROVIDE THE DB WITH AN AS2293 EMERGENCY LIGHTING CONTROL SYSTEM TO CONTROL THE ASSOCIATED EMERGENCY LIGHTS. EACH CUBICAL MUST BE AT LEAST 700MM WIDE. REFER TO THE NOTES AND THE SCHEMATIC FOR ADDITIONAL REQUIREMENTS.							A	
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE (mm ²)	LOCATION	CIRCUIT USE	A	
P40	1	32	RCBO	6.0	KITCHEN	COOK TOP	A	
P41	1	32	RCBO	6.0	KITCHEN	COOK TOP	A	
P42	3	20	RCBO	2.5	EXTERNAL	COOKLINE FAN	A	
P43	3	32	RCBO	4.0	KITCHEN	11.7KW COMBI	A	
P44	1	20	RCBO	2.5	EXTERNAL	AC	A	
P45	1	20	RCBO	2.5	EXTERNAL	AC	A	
P46	1	20	RCBO	2.5	KITCHEN	REF	A	
P47	1	20	RCBO	2.5	KITCHEN	GPO	A	
P48	1	20	RCBO	2.5	KITCHEN	REF	A	
P49	1	20	RCBO	2.5	KITCHEN	GPO	A	
P50	1	20	RCBO	2.5	KITCHEN	AUTO BOILER	A	
P51	1	32	RCBO	6.0	KITCHEN	COOK TOP	A	
P52	1	20	RCBO	2.5	KITCHEN	MW	A	
P53	1	20	RCBO	2.5	KITCHEN	OVEN	A	
P54	1	20	RCBO	2.5	KITCHEN	OVEN	A	
P55	1	20	RCBO	2.5	EXTERNAL	AC	A	
P56	1	20	RCBO	2.5	EXTERNAL	AC	A	
P57	1	20	RCBO	2.5	KITCHEN	MW	A	
							A	
							A	
							A	
L1	1	20	RCBO	2.5	INDUSTRIAL ARTS	LIGHTS	A	
L2	1	20	RCBO	2.5	KITCHEN	LIGHTS	A	
L3	1	20	RCBO	2.5	INDUSTRIAL ARTS	FANS	A	
							A	
							A	
							A	
							A	

LEGEND

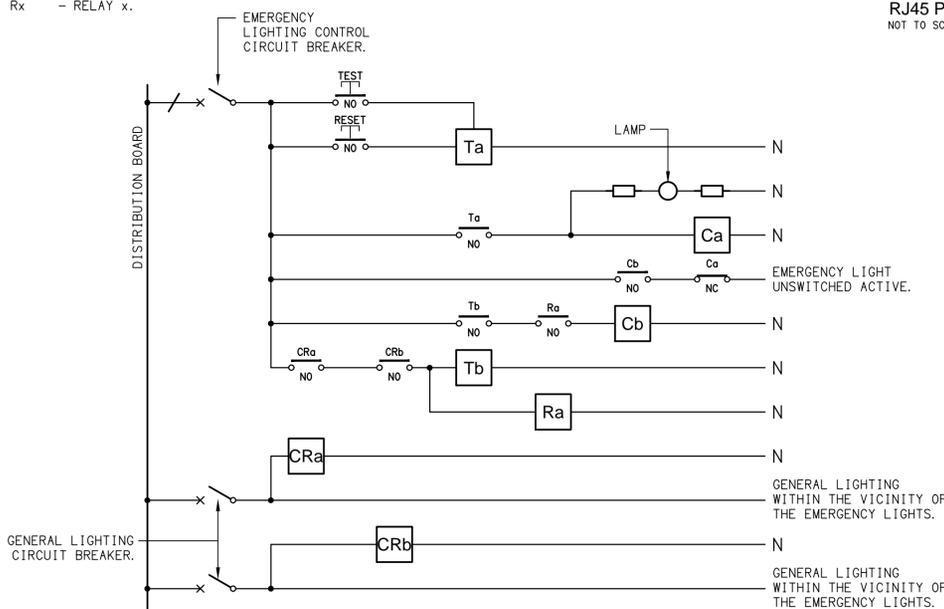
-  ELECTRICAL SERVICES SWITCHBOARD.
-  SINGLE POWER OUTLET.
-  DOUBLE POWER OUTLET.
-  SPECIAL PURPOSE POWER OUTLET.
-  SINGLE PHASE ISOLATOR.
-  THREE PHASE ISOLATOR.
-  EMERGENCY SHUT OFF STOP BUTTON.
-  ONE-WAY LIGHT SWITCH C/W DALI POT DIMMER.
-  ONE-WAY LIGHT SWITCH.
-  TWO-WAY LIGHT SWITCH.
-  CIRCUIT LINE.
-  SWITCH LINE.
-  POWER CIRCUIT DESIGNATION. DENOTES DB AND CIRCUIT.
-  ELECTRICAL EQUIPMENT AS NOTED.
-  RJ45 COMMUNICATIONS OUTLET.
-  SECURITY DIRECTIONAL MOTION DETECTOR.
-  E1: GENERAL RECESSED LED EMERGENCY LIGHT.
-  EX: EMERGENCY LED EXIT LIGHT.
-  L1: 300 X 1200 RECESSED LED FLAT PANEL.
-  L2: RECESSED LED DOWNLIGHT.
-  L3: 300 X 1200 RECESSED LED FLAT PANEL C/W DALI DIMMABLE DRIVER.
-  L4: 1200 LED BATTEN.
-  F1: WALL MOUNTED FAN.

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.



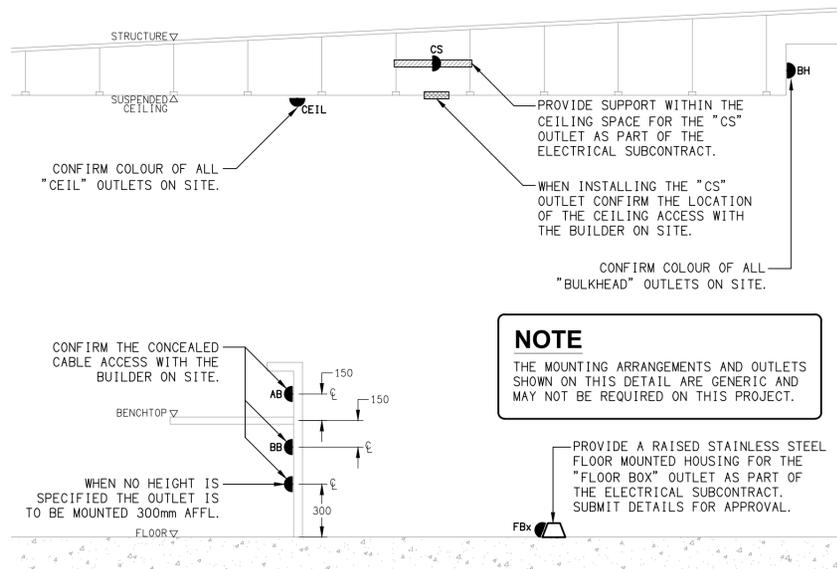
SCHEMATIC
RJ45 PINOUT CONFIGURATION
NOT TO SCALE



NOTES

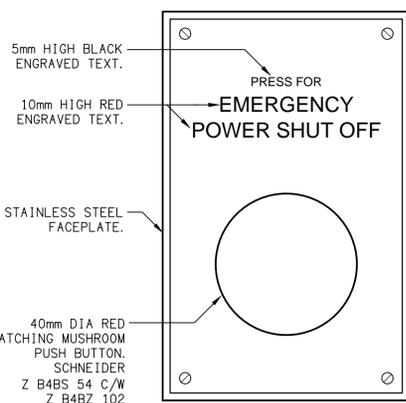
1. THE EMERGENCY LIGHT UNSWITCHED ACTIVE / GENERAL LIGHTING SWITCHED ACTIVE CIRCUIT ARRANGEMENT AND CONTROL IS TYPICAL FOR ALL CIRCUITS SUPPLYING EMERGENCY LIGHTS.
2. PROVIDE ADDITIONAL CONTROL RELAYS (CRx) CONFIGURED AS PER CRa AND CRb FOR ALL ADDITIONAL LIGHTING CIRCUITS THAT SUPPLY LIGHTS IN THE VICINITY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

SCHEMATIC
EMERGENCY LIGHTING
NOT TO SCALE

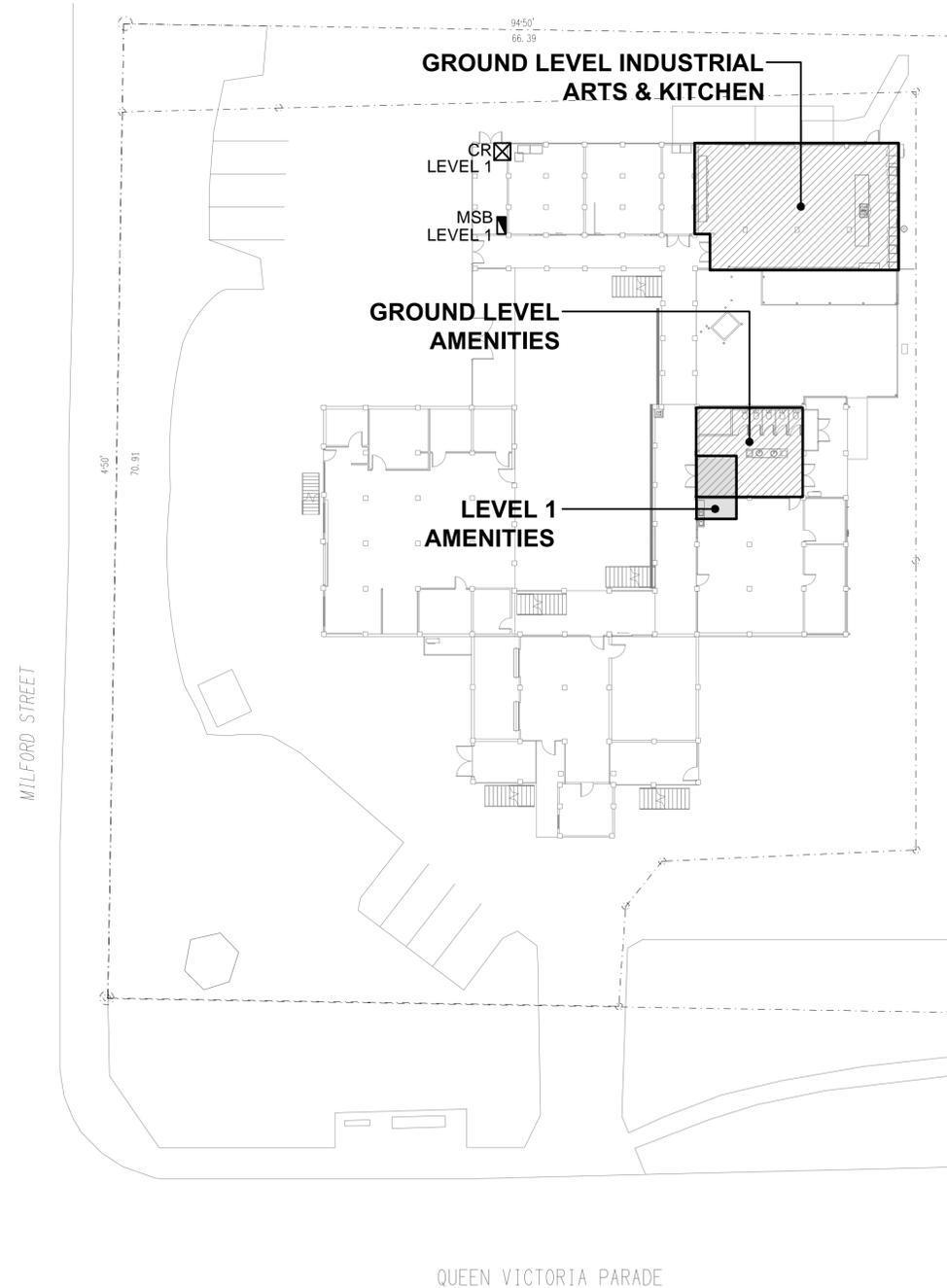


NOTE
THE MOUNTING ARRANGEMENTS AND OUTLETS SHOWN ON THIS DETAIL ARE GENERIC AND MAY NOT BE REQUIRED ON THIS PROJECT.

DETAIL
TYPICAL OUTLET MOUNTINGS
NOT TO SCALE



DETAIL
EMERGENCY POWER SHUT OFF (ES)
NOT TO SCALE



SITE PLAN
ELLIOTT & MACKILLOP BUILDING RENOVATIONS
SCALE 1:250

<p>ELECTRICAL DESIGN GROUP BRISBANE PTY LTD ACN 092 710 793</p> <p>TRADING AS: ELECTRICAL DESIGN GROUP</p>	<p>THE COPYRIGHT OF THIS DRAWING REMAINS THE PROPERTY OF THE ELECTRICAL DESIGN GROUP.</p> <p>USE FIGURED DIMENSIONS IN PREFERENCE TO SCALE.</p> <p>ALL DIMENSIONS TO BE VERIFIED ONSITE.</p>	<p>ELECTRICAL DESIGN GROUP</p> <p>ELECTRICAL BUILDING SERVICES CONSULTANTS</p> <p>BRISBANE GOLD COAST</p> <p>P.O. Box 15, Sherwood Q.4075 Phone: (07) 3278 4375 Email: brisbane@edg.net.au Web: www.edg.net.au</p>	<p>PROJECT: FLEXIBLE LEARNING CENTRE, IPSWICH RENOVATIONS</p> <p>1 QUEEN VICTORIA PARADE, IPSWICH, QUEENSLAND</p>						
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">A</td> <td style="width: 40%;">PRELIMINARY</td> <td style="width: 10%;">11/11/2024</td> </tr> <tr> <td>REV:</td> <td>DESCRIPTION:</td> <td>DATE:</td> </tr> </table>		A	PRELIMINARY	11/11/2024	REV:	DESCRIPTION:	DATE:	<p>DRAWING: ELECTRICAL SERVICES LEGEND, SITE PLAN & DETAILS</p>	
A	PRELIMINARY	11/11/2024							
REV:	DESCRIPTION:	DATE:							
<p>SCALE: 1:250</p>		<p>PROJECT NO: C3336a DRAWING NO: E01 REVISION: A</p>							

NOTES

1. EXTENT OF WORKS

THE ELECTRICAL SERVICES SUB-CONTRACT INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:
 - SUPPLY AND INSTALLATION OF ALL COMPONENTS FORMING PART OF THE ELECTRICAL SERVICES.
 - CO-ORDINATION.
 - INSPECTIONS.
 - TESTING AND COMMISSIONING.
 - MAINTENANCE.
 - CABLING, CABLE SUPPORT SYSTEMS AND ACCESS.
 - POWER DISTRIBUTION.
 - LIGHTING.
 - COMMUNICATIONS CABLING.
 - SECURITY.
 - RECONNECTION OF EXISTING CIRCUITS.
 - 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.

PRIOR TO COMMENCING WORK CONSULT SITE MANAGEMENT FOR ANY HAZARDOUS MATERIAL AND OR ASBESTOS REGISTERS AS WELL AS UNDERTAKE A THOROUGH INSPECTION OF THE SITE TO IDENTIFY ANY POTENTIAL HAZARDOUS MATERIALS, ASBESTOS AND HEALTH OR SAFETY RISKS. ADVISE THE CONTRACTOR OF ANY POTENTIAL HAZARDOUS MATERIALS, ASBESTOS AND HEALTH OR SAFETY RISKS IF IDENTIFIED AND DO NOT COMMENCE WORK UNTIL AN APPROPRIATE MANAGEMENT PLAN HAS BEEN DEVELOPED AND AGREED TO BY ALL PARTIES.

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

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

2. WORKMANSHIP

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

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

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

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

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

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

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

3. STANDARDS

IRRESPECTIVE OF INFORMATION CONTAINED IN THE ELECTRICAL SERVICES DOCUMENTS OR IN INSTRUCTIONS, IT IS THE ELECTRICAL SUB CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL ELECTRICAL SERVICES WORKS ARE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FOLLOWING. REFER ANY DISCREPANCIES BETWEEN THE REQUIREMENTS OF THE FOLLOWING AND/OR THE ELECTRICAL SERVICES DOCUMENTS AND INSTRUCTIONS TO THE ARCHITECT FOR CLARIFICATION PRIOR TO THE PLACING OF ORDERS, FABRICATION OR INSTALLATION OF THE ITEMS/METHODS IN DISCREPANCY.
 - NCC BUILDING CODE OF AUSTRALIA.
 - ELECTRICITY ACT.
 - ELECTRICAL SAFETY ACT.
 - AS/NZS3000.
 - AS3008.
 - AS2293.
 - WORKPLACE HEALTH AND SAFETY ACT.
 - TELECOMMUNICATIONS ACT.
 - ACMA REQUIREMENTS.

4. AUTHORITIES

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

5. CABLES

UNLESS OTHERWISE SPECIFIED, INSTALL AND TERMINATE CABLES IN ACCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS. DETERMINE THE FINAL ROUTES TO SUIT THE BUILDING STRUCTURE AND SITE CONDITIONS. UNLESS NOTED OTHERWISE, PROVIDE ALL 240 VOLT POWER AND LIGHTING WIRING AS 2.5mm² TWIN & EARTH STRANDED COPPER CONDUCTORS, PVC INSULATED 0.6/1kV V75 GRADE TO AS3174, PROTECTED BY A 20 AMP CIRCUIT BREAKER. ALL CONDUIT AND FITTINGS TO BE RIGID UPVC TO AS2053, UNLESS NOTED OTHERWISE.

NOTES

6. POWER DISTRIBUTION

THE POWER DISTRIBUTION COMPONENT OF THIS CONTRACT INCLUDES PROVIDING A NEW DISTRIBUTION BOARD DB-A SUPPLIED VIA A CONCEALED SUBMAIN PROTECTED BY A NEW MCB MOUNTED ON THE HYBRID MSB CHASSIS LABELLED AS DB/A.
 THE EXISTING CIRCUITS SUPPLYING SERVICES FOR THE INDUSTRIAL ARTS AND KITCHEN THAT REMAIN SUCH AS THE AIRCONDITIONING AND HOT WATER SYSTEM ARE TO BE RESUPPLIED FROM DB-A.

ALL EXISTING SERVICES INCLUDING SWITCHGEAR MADE REDUNDANT BY THE WORKS IS TO BE REMOVED AND THE EXISTING DISTRIBUTION BOARD SCHEDULES UPDATED AT PRACTICAL COMPLETION.

THE POWER DISTRIBUTION COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:
 - POWER DISTRIBUTION.
 - NEW DISTRIBUTION BOARD DB-A.
 - EMERGENCY SHUT OFFS.
 - CABLE ACCESS WAYS.
 - CIRCUITS.
 - ISOLATORS AND OUTLETS.
 - TESTING AND COMMISSIONING.
 - REMOVAL OF ALL EXISTING REDUNDANT SERVICES.

PROVIDE THE DISTRIBUTION BOARD DB-A AS FOLLOWS:

- WALL MOUNTED.
- IP44 FORM 1.
- LIGHT GREY ENCLOSURE WHITE ESCUTCHEON.
- 3 POINT 92268 KEY LOCKABLE FLUSH 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 SCHNEIDER OR NHP/ TERASAKI.
- PROVIDE SHOP DRAWINGS FOR APPROVAL.
- ALL COMPONENTS ARE TO BE LABELLED WITH NON-STICK LABELS.

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

7. LIGHTING

ALL OF THE LIGHT FITTINGS, LAMPS AND ACCESSORIES ARE TO BE PROVIDED AS PART OF THIS CONTRACT. THE LIGHTING COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- LIGHTING.
- LIGHT FITTINGS AND ACCESSORIES.
- EMERGENCY AND EXIT LIGHTING.
- EARTHING OF THE LIGHTING INSTALLATION.
- LIGHTING CONTROL.
- WALL MOUNTED FANS.
- LIGHTING SUBCIRCUITS.
- TESTING AND COMMISSIONING.
- RECONNECTION OF THE EXISTING LIGHTING THAT REMAINS INCLUDING ALL NEW SWITCHGEAR AND CONTROLS.
- REMOVAL OF ALL EXISTING REDUNDANT LIGHTING SERVICES.

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.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.

THIS EVIDENCE IS TO BE IN THE FORM OF A LOG BOOK SIMILAR TO THE GENERAL LIGHTING SERVICE PTY LTD "EMERGENCY LIGHTING MAINTENANCE LOG BOOK AND MANUAL" WHICH IS TO BE PROVIDED BY THE ELECTRICAL SUB-CONTRACTOR AND HAVE ALL ENTRIES FULLY COMPLETED AND BE PRESENTED FOR INSPECTION AT PRACTICAL COMPLETION. THE LOG BOOK IS TO BE RETAINED BY THE ELECTRICAL SUB-CONTRACTOR FOR THE DURATION OF THE MAINTENANCE PERIOD, AND THE SIX MONTHLY TEST AND MAINTENANCE RESULTS ENTERED. THE LOG BOOK IS TO BE PRESENTED FOR APPROVAL AT FINAL COMPLETION (EXPIRY OF THE MAINTENANCE PERIOD) AND WILL BE FORWARDED TO THE OPERATOR FOR THEIR USE.

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. PROVIDE THE EMERGENCY LIGHTING SYSTEM WITH A SUPPLY SENSING AND TESTING FACILITY IN ACCORDANCE WITH AS 2293.1.

NOTES

8. COMMUNICATIONS CABLING

THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES NEW CAT 6 OUTLETS CABLED TO A NEW CAT 6 PATCH PANEL IN THE EXISTING COMMUNICATIONS RACK. ALL NEW COMMUNICATIONS CABLING OUTLETS AND PORTS ARE TO BE LABELLED USING THE EXISTING LABELLING SYSTEM.

PROVIDE THE COMMUNICATIONS CABLING AS COMMSSCOPE CAT 6 UTP WITH A MANUFACTURERS PERFORMANCE WARRANTY.

THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:
 - PATCH PANELS AS NECESSARY.
 - CAT 6 COMMUNICATIONS OUTLETS AND CABLING.
 - CABLE ACCESS WAYS.
 - TESTING AND COMMISSIONING.
 - MANUFACTURERS WARRANTY.
 - REMOVAL OF ALL EXISTING COMMUNICATIONS SERVICES MADE REDUNDANT BY THE WORKS.

9. SECURITY

THE SECURITY COMPONENT OF THIS CONTRACT INCLUDES THE EXPANSION OF THE EXISTING INTRUDER DETECTION SYSTEM WITH NEW INTRUDER DETECTORS WHICH INCLUDES THOUGH IS NOT LIMITED TO.
 - INTRUDER DETECTION SENSORS.
 - CABLING.
 - TESTING AND COMMISSIONING.
 - REMOVAL OF ALL EXISTING SECURITY SERVICES.

10. ABBREVIATIONS

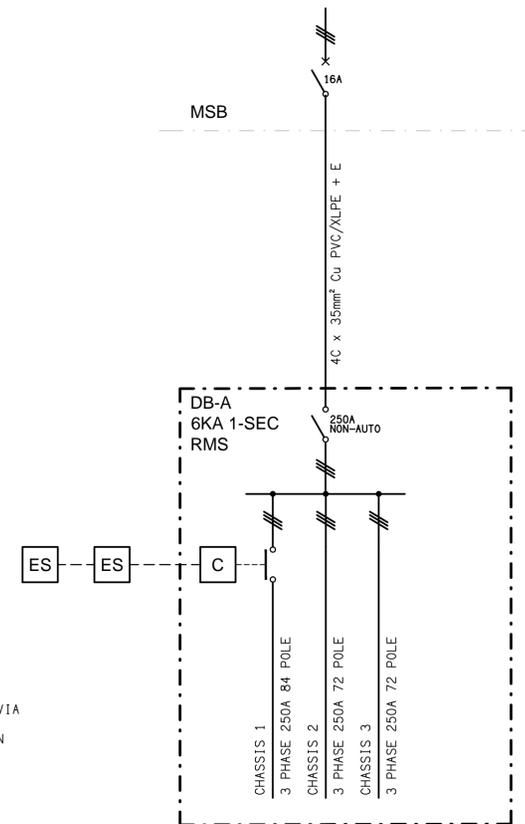
- A - AMP CURRENT RATING
- AB - MOUNT ABOVE BENCH.
- AFFL - ABOVE FINISHED FLOOR LEVEL.
- BB - MOUNT BELOW BENCH.
- BH - MOUNT ON BULKHEAD.
- CEIL - MOUNT ON CEILING.
- CS - MOUNT WITHIN CEILING SPACE.
- C/W - COMPLETE WITH.
- DW - DISHWASHER.
- HWS - HOT WATER SYSTEM.
- MCB - MINIATURE CIRCUIT BREAKER.
- MSB - MAIN SWITCHBOARD.
- MW - MICROWAVE.
- N - NEON / LED INDICATOR WHEN ON.
- NTS - NOT TO SCALE.
- RCBO - CIRCUIT PROTECTED VIA A 30mA RESIDUAL CURRENT DEVICE INTEGRAL TO THE CIRCUIT BREAKER. 3-PHASE RCBO TO BE 4-POLE.
- REF - REFRIGERATOR.
- SUS - MOUNT SUSPENDED FROM CEILING.
- UNO - UNLESS NOTED OTHERWISE.
- WP - WEATHERPROOF TO IP56 UNO.
- 500 - NUMBER DENOTES MOUNTING HEIGHT AFFL.

SCHEMATIC LEGEND:

-  NON-AUTO SWITCH.
-  CIRCUIT BREAKER.
-  NORMALLY OPEN CONTACTOR.
-  EMERGENCY STOP BUTTON.
-  THREE PHASE.

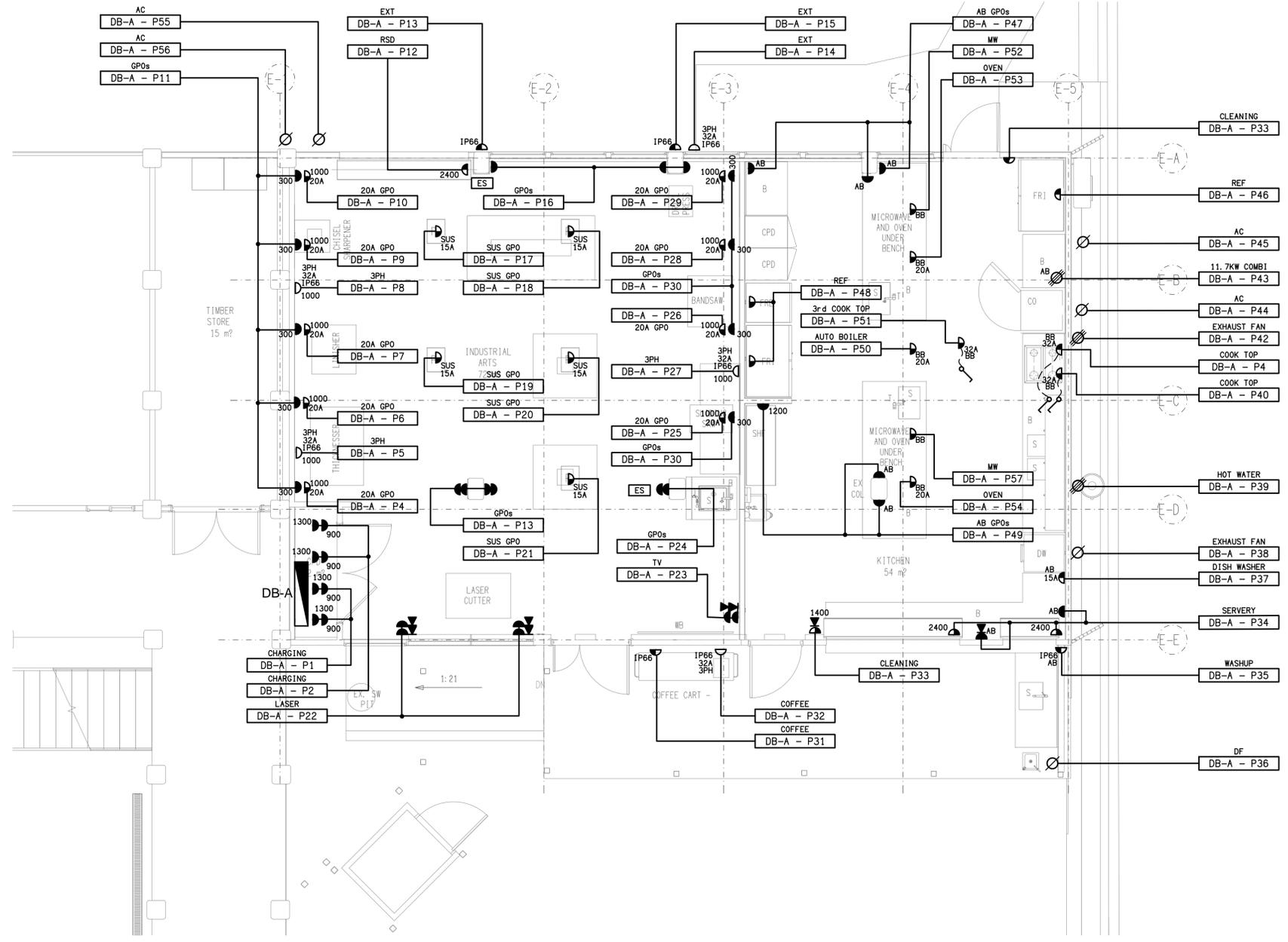
DB-A NOTE

THE INDUSTRIAL ARTS CIRCUITS P1 THROUGH TO P30 ARE TO BE SUPPLIED VIA CHASSIS 1 SUCH THAT THEY ARE CONTROLLED VIA THE CONTACTOR AND IN TURN THE EMERGENCY STOP BUTTONS.



SCHEMATIC
 POWER / DB-A CONFIGURATION
 NOT TO SCALE

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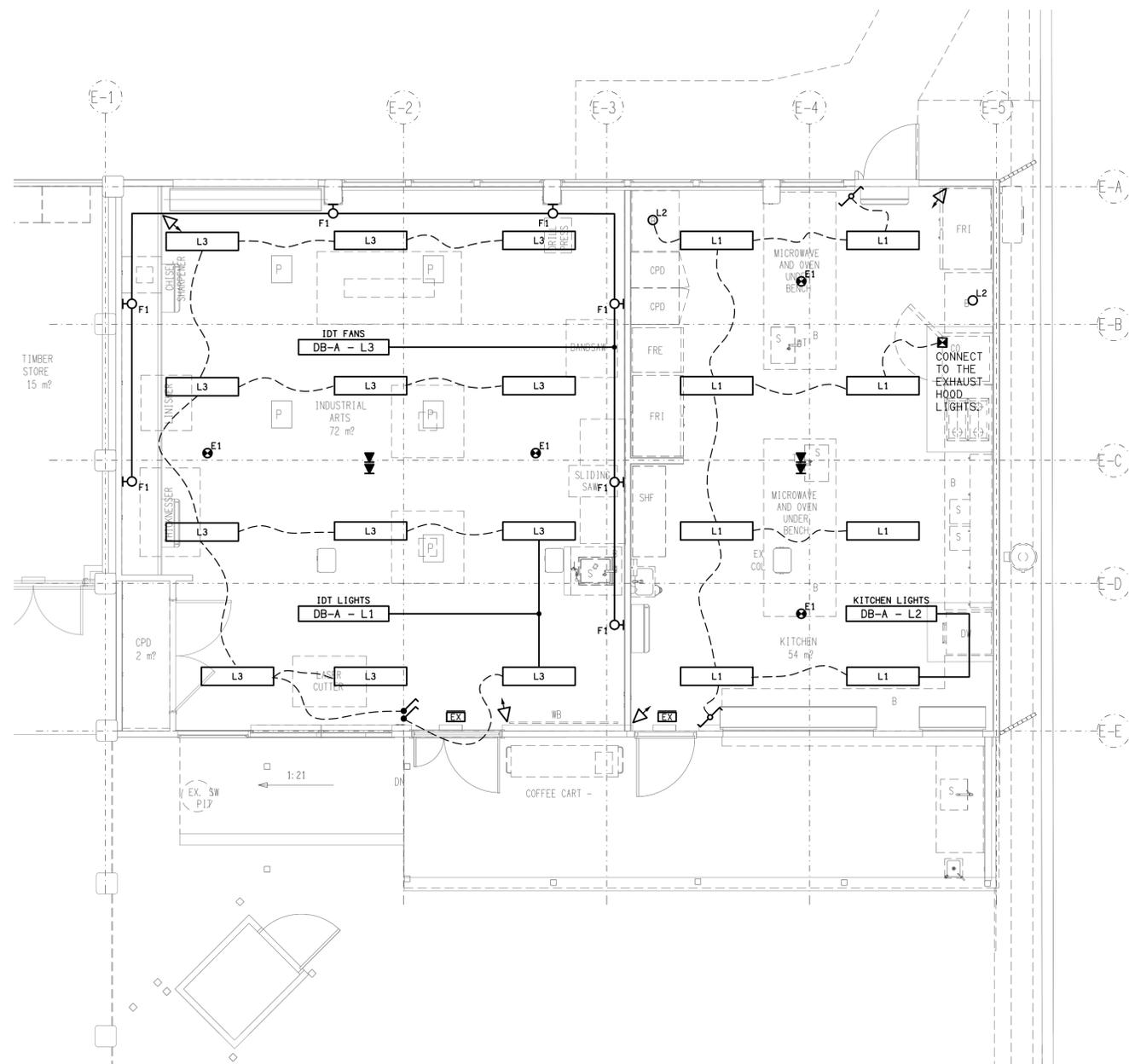
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PROJECT:
**FLEXIBLE LEARNING CENTRE, IPSWICH
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 1 QUEEN VICTORIA PARADE, IPSWICH, QUEENSLAND

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RENOVATIONS**

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DRAWING:
**ELECTRICAL SERVICES
INDUSTRIAL ARTS & KITCHEN RCP**

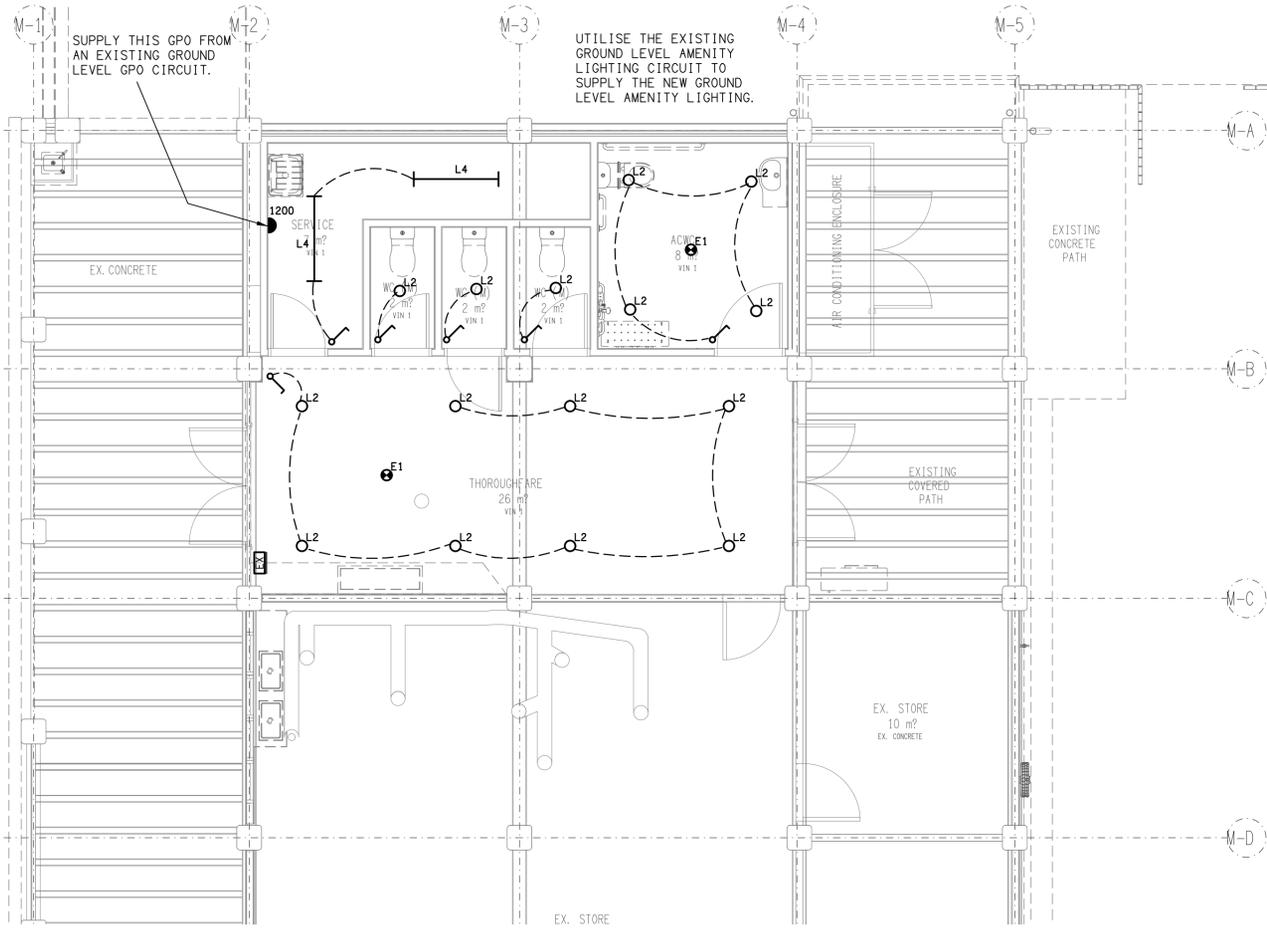
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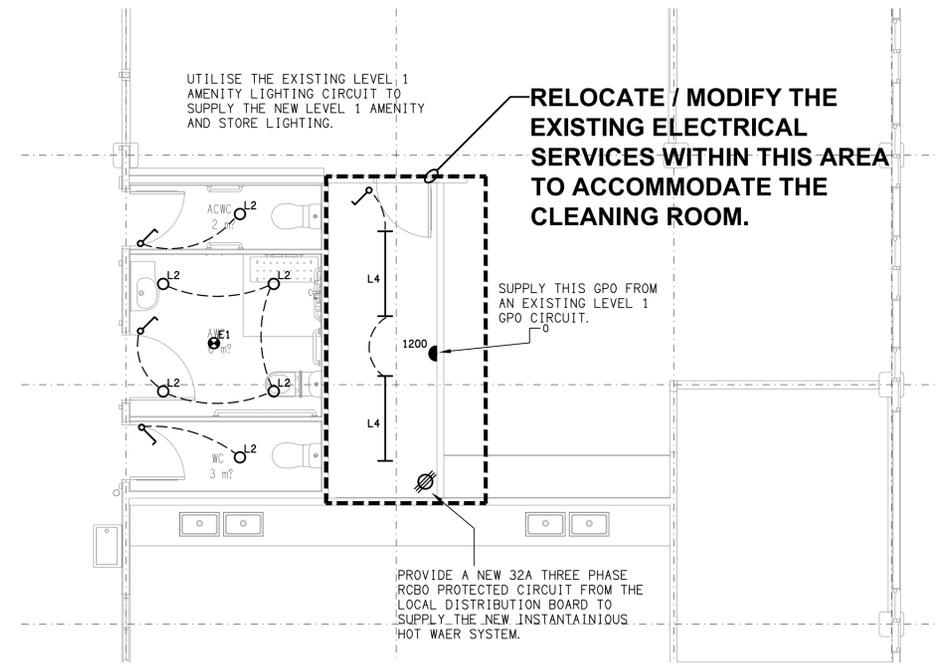
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C3336a

DRAWING NO:
E04

REVISION:
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GROUND LEVEL
 AMENITIES FLOOR / REFLECTED CEILING PLAN
 SCALE 1: 50



LEVEL 1
 AMENITIES FLOOR / REFLECTED CEILING PLAN
 SCALE 1: 50

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 AMENITIES PLANS**

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C3336a

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