



# ELECTRICAL DESIGN GROUP

ELECTRICAL BUILDING SERVICES CONSULTANTS

P.O. Box 15, SHERWOOD Q. 4075

Phone: (07) 3278 4375

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

C3051a - ASPLEY LEAGUES CLUB - RUGBY AMENITIES

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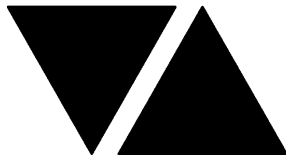
ELECTRICAL SERVICES CONTRACT DOCUMENT SCHEDULE

REVISION C - 12 SEPTEMBER 2023

ISSUING INFORMATION				DATE OF ISSUE							
	DAY	24	27	12							
	MONTH	07	07	09							
	YEAR	23	23	23							
	REASON FOR ISSUE	T	T	C							
A = APPROVAL      C = CONSTRUCTION      N = COORDINATION      P = PRELIMINARY      T = TENDER											

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DOCUMENTS				REVISION							
C3051a-E01.dwg	LEGEND & NOTES			A	B	C					
C3051a-E02.dwg	SITE PLAN			A		B					
C3051a-E03.dwg	AMENITIES PLAN			A	B	C					
C3051a-E04.dwg	AMENITIES DETAIL SECTIONS			A	B	C					
C3051a-0001.xls	CONTRACT DOCUMENT SCHEDULE			A	B	C					
C3051a-0002.xls	EQUIPMENT SCHEDULE			A	B	C					
C3051a-0004.xls	DISTRIBUTION BOARD DB-A SCHEDULE			A							
C3051a-0001.zip	FITTING & OUTLET DATASHEETS			A	B						



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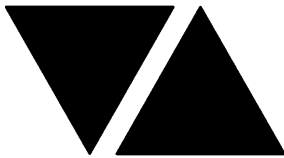
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## ELECTRICAL EQUIPMENT SCHEDULE

REVISION C - 12 SEPTEMBER 2023

THE EQUIPMENT SUPPLIER CONTACT DETAILS MAY BE AVAILABLE ON THE EDG WEBSITE VIA THE FOLLOWING LINK  
[www.edg.net.au/links.html](http://www.edg.net.au/links.html)

TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
L1	1800LUMEN / METER 4000K LED	CONTINUOUS WALL MOUNTED EXTRUSION C/W REMOTE DRIVERS LOCATED IN A CONCEALED ACCESSIBLE LOCATION. FIX THE EXTRUSION IN PLACE WITH CONCEALED SCREWS. WALL MOUNT THE FITTING HORIZONTALLY TO THE BLOCKWORK WALL WITH THE TOP EDGE OF THE FITTING FLUSH WITH THE TOP OF THE BLOCKWORK. THE FITTING IS TO EXTEND THE FULL WIDTH OF THE ROOM ALONG THE WALL.	ALUMINIUM	GAMMA ILLUMINATION GAP 55028	C
L2	1800LUMEN / METER 4000K LED	CONTINUOUS SURFACE MOUNTED EXTRUSION C/W REMOTE DRIVERS LOCATED IN A CONCEALED ACCESSIBLE LOCATION. FIX THE EXTRUSION IN PLACE WITH CONCEALED SCREWS. MOUNT THE FITTING CENTRALLY ON THE UNDERSIDE OF THE ROOF BEAM. THE FITTING IS TO EXTEND THE FULL WIDTH OF THE ROOM ALONG THE BEAM.	ALUMINIUM	GAMMA ILLUMINATION GAP 55028	C
L3	1800LUMEN / METER 4000K LED	2400 LENGTH OF CONTINUOUS WALL MOUNTED EXTRUSION C/W REMOTE DRIVERS LOCATED IN A CONCEALED ACCESSIBLE LOCATION. FIX THE EXTRUSION IN PLACE WITH CONCEALED SCREWS. WALL MOUNT THE FITTING HORIZONTALLY AT 2400 AFFL TO THE BLOCKWORK WALL CENTRED OVER THE MIRRORS.	ALUMINIUM	GAMMA ILLUMINATION GAP 55028	C
L4	1800LUMEN / METER 4000K LED	CONTINUOUS WALL MOUNTED EXTRUSION C/W REMOTE DRIVERS LOCATED IN A CONCEALED ACCESSIBLE LOCATION. FIX THE EXTRUSION IN PLACE WITH CONCEALED SCREWS. WALL MOUNT THE FITTING HORIZONTALLY AT 2400 AFFL TO THE BLOCKWORK WALL FOR THE FULL WIDTH OF THE FIRST AID ROOM.	ALUMINIUM	GAMMA ILLUMINATION GAP 55028	C
L5	1800LUMEN / METER 4000K LED	CONTINUOUS WALL MOUNTED EXTRUSION C/W REMOTE DRIVERS LOCATED IN A CONCEALED ACCESSIBLE LOCATION. FIX THE EXTRUSION IN PLACE WITH CONCEALED SCREWS. WALL MOUNT THE FITTING HORIZONTALLY AT 2400 AFFL TO THE BLOCKWORK WALL FOR THE FULL WIDTH OF THE AMENITIES ROOM.	ALUMINIUM	GAMMA ILLUMINATION GAP 55028	C
L6	1800LUMEN / METER 4000K LED	CONTINUOUS SURFACE MOUNTED EXTRUSION C/W REMOTE DRIVERS LOCATED IN A CONCEALED ACCESSIBLE LOCATION. FIX THE EXTRUSION IN PLACE WITH CONCEALED SCREWS. MOUNT THE FITTING CENTRALLY ON THE UNDERSIDE OF THE HIGH LEVEL ROOF BEAM. THE FITTING IS TO EXTEND THE FULL WIDTH OF EACH SEGMENT OF BEAM.	ALUMINIUM	GAMMA ILLUMINATION GAP 55028	C
L7	36W LED 4000K	1200 LONG SURFACE MOUNTED IP65 DIFFUSED BATTEN C/W INTEGRAL ELECTRONIC CONTROL GEAR, LIGHT LEVEL / MOVEMENT SENSOR AND A NON MAINTAINED AS 2293 EMERGENCY PACK. WALL MOUNT THE FITTING HORIZONTALLY AS HIGH AS PRACTICAL UP TO 2400 AFFL.	WHITE	GAMMA STORM 1558- CCT-36	A



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TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
L8	22W 4000K LED	ADJUSTABLE 36 DEG SPOT LIGHT C/W INTEGRAL DRIVER MOUNTED AT HIGH LEVEL BEHIND THE CEILING BEAM TO ILLUMINATE THE CLUB SIGN.	WHITE	GAMMA CIXO SM 1115SM-FL-4K-22W	B
L9	1800LUMEN / METER 4000K LED	CONTINUOUS WALL MOUNTED EXTRUSION C/W REMOTE DRIVERS LOCATED IN A CONCEALED ACCESSIBLE LOCATION FIX THE EXTRUSION IN PLACE WITH CONCEALED SCREWS. WALL MOUNT THE FITTING HORIZONTALLY CENTRED WITH THE DOOR HEAD BEAM. THE FITTING IS TO EXTEND FROM THE DOOR TO THE BLOCKWORK WALL OF THE STORE ROOM.	ALUMINIUM	GAMMA ILLUMINATION PAP 55028	A
L10	2X14W 4000K LED	WALL MOUNTED UP / DOWN BOX LIGHT C/W INTERNAL DRIVER. PROVIDE EACH FITTING WITH AN ADJUSTABLE ILLUMINATION LEVEL / MOVEMENT DETECTOR TO OPERATE THE FITTING FOR A PRE-SET AMOUNT OF TIME. ADJUST THE TIME AND SENSITIVITY ON SITE AS DIRECTED BY THE ENGINEER. SUBMIT DETAILS OF THE FITTING AND SENSOR FOR APPROVAL PRIOR TO ORDERING. THE SENSOR CAN BE EITHER INTEGRAL TO THE FITTING OR SURFACE MOUNTED TO THE UNDERSIDE OF THE REAR BASE OF THE FITTING. CONFIRM THE MOUNTING HEIGHT AND POSITION ON SITE WITH THE ARCHITECT.	WHITE	GAMMA TOMMASO 1277-4K-28W PLUS SENSOR	B
L11	222 4000K LED	WALL MOUNTED BOX DOWNLIGHT C/W INTERNAL DRIVER. PROVIDE EACH FITTING WITH AN ADJUSTABLE ILLUMINATION LEVEL / MOVEMENT DETECTOR TO OPERATE THE FITTING FOR A PRE-SET AMOUNT OF TIME. ADJUST THE TIME AND SENSITIVITY ON SITE AS DIRECTED BY THE ENGINEER. SUBMIT DETAILS OF THE FITTING AND SENSOR FOR APPROVAL PRIOR TO ORDERING. THE SENSOR CAN BE EITHER INTEGRAL TO THE FITTING OR SURFACE MOUNTED TO THE UNDERSIDE OF THE REAR BASE OF THE FITTING. CONFIRM THE MOUNTING HEIGHT AND POSITION ON SITE WITH THE ARCHITECT.	WHITE	GAMMA TOMMASO 1276-4K-22W PLUS SENSOR	B
EX	LED	EXIT LIGHT: IP66 WALL MOUNT 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	CLEVERTONICS LWELED-WM	A
ONE-WAY LIGHT SWITCH		ONE-WAY LIGHT SWITCH C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND. MOUNTED CENTRED AT 1000mm AFFL UNLESS NOTED OTHERWISE.	WHITE	CLIPSAL STANDARD SERIES 30USM	A
ONE-WAY KEYED LIGHT SWITCH		ONE-WAY KEY OPERATED 20AMP LIGHT SWITCH. MOUNTED CENTRED AT 1000mm AFFL UNLESS NOTED OTHERWISE.	WHITE	CLIPSAL STANDARD SERIES 31VK1/2CK	A



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TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
PROXIMITY DETECTOR SWITCH (PD)		ADJUSTABLE WALL MOUNTED ILLUMINATION LEVEL / MOVEMENT DETECTOR TO OPERATE THE ASSOCIATED LIGHTS FOR A PRE-SET AMOUNT OF TIME. ADJUST THE TIME AND SENSITIVITY ON SITE AS DIRECTED BY THE ENGINEER. SUBMIT DETAILS OF THE MOVEMENT DETECTOR SWITCH FOR APPROVAL PRIOR TO ORDERING	WHITE	CLIPSAL	A
SINGLE POWER OUTLET		SINGLE POWER OUTLET MOUNT AT 300 AFFL U.N.O.	WHITE	CLIPSAL STANDARD SERIES	A
DOUBLE POWER OUTLET		DOUBLE POWER OUTLET MOUNT AT 3000 AFFL U.N.O	WHITE	CLIPSAL STANDARD 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.	-	CLIPSAL WSCF227F	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
OUTLET PANEL (OP)		PROVIDE AN IP 66 STAINLESS STEEL ENCLOSURE C/W A LIFT OFF HINGED DOOR WITH A FLUSH KEY LOCKABLE HANDLE. MOUNT THE ENCLOSURE AGAINST THE FLOOR. PROVIDE THE ENCLOSURE WITH TWO DOUBLE GPOS AND A DOUBLE COMMUNICATIONS OUTLET MOUNTED WITHIN THE ENCLOSURE. PROVIDE DETAILS OF THE ENCLOSURE FOR APPROVAL.			A
COMMUNICATIONS RACK CR-A		PROVIDE CR-A AS A IP56 316 STAINLESS STEEL 12 RU 600 DEEP WALL MOUNTED HINGED COMMUNICATIONS RACK C/W A KEY LOCKABLE DOOR. PROVIDE THE RACK WITH A FOBOT TO ACCOMMODATE THE FIBRE OPTIC CABLE FROM CR-CH AND CAT 6 PATCH PANELS TO ACCOMMODATE THE COMMUNICATIONS OUTLETS AND CCTV POINTS. PROVIDE THE RACK WITH A 6 X 10 AMP REAR MOUNTED POWER BOARD. UTILISE THE POWER CONDUITS TO INSTALL THE OPTICAL FIBRE CABLE FROM CR-CH TO CR-A. PROVIDE A SHOP DRAWING OR CATALOGUE DETAILS OF THE RACK FOR APPROVAL.			B
CLUB HOUSE COMMUNICATIONS RACK CR-CH		EXISTING CLUB HOUSE COMMUNICATIONS RACK TO BE PROVIDED WITH A FOBOT TO ACCOMMODATE THE NEW FIBRE OPTIC CABLE TO CR-A. CONFIRM THE LOCATION OF CR-CH ON SITE.			A
COMMUNICATIONS OUTLET		RJ45 CAT-6 COMMUNICATIONS OUTLET, CABLED BACK TO COMMUNICATIONS RACK CR-A TERMINATED ONTO PATCH PANELS VIA 4-PAIR CAT-6 TWISTED PAIR CABLE. MOUNT UP TO 3 RJ45 OUTLETS PER MULTI-GANG FACEPLATE WITH SEPARATE PERMANENT LABELLING FOR EACH OUTLET.	WHITE	CLIPSAL STANDARD SERIES COMMSCOPE OUTLET	A



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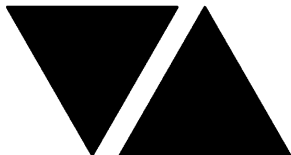
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TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
CCTV POINT		RJ45 CAT-6 CABLE TO BE COILED IN A FLUSH RECESSED JUNCTION BOX WITH A MALE RJ45 PLUG FOR CONNECTION TO A CCTV CAMERA BY THE SECURITY CONTRACTOR. CABLE THE CCTV POINT BACK TO COMMUNICATIONS RACK CR-A TERMINATED ONTO PATCH PANELS VIA 4-PAIR CAT-6 TWISTED PAIR CABLE.			B
DB-A		PROVIDE DB-A AS PER THE NOTES AND DB-A SCHEDULE SUPPLIED VIA A NEW SUBMAIN FROM THE SITE MSB.			A
MSB		UPGRADE THE EXISTING MSB AS PER THE NOTES TO ACCOMMODATE A NEW MCCB TO SUPPLY DB-A.			A
HAND DRYER (HD)		PROVIDE A SWITCH ON THE WALL 200MM ABOVE THE LIGHT FITTING CABLED THROUGH THE BLOCKWORK TO THE HAND DRYER. TAKE POSSESSION OF THE HAND DRYER FROM THE CONTRACTOR AND INSTALL IT AS PER THE MANUFACTURERS RECOMMENDATIONS.	WHITE	CLIPSAL STANDARD SERIES	A



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


























DISTRIBUTION BOARD DB-A

REVISION A - 24 JULY 2023

FAULT CURRENT: 6KA							250A NON AUTO LOAD BREAK	REV
MAIN SWITCH:								A
CHASSIS SIZE: 60 POLES								A
SUPPLIED FROM: MSB								A
CHASSIS RATING: 250A							1C 95	A
SUPPLY CABLE:								A
PHASES: 3								A
PROVIDE THE DB WITH A FULL WIDTH EMPTY DIN RAIL TO ACCOMMODATE FUTURE CONTACTORS AND CONTROLS IN ADDITION TO THE INITIAL CONTROL. PROVIDE THE DB WITH AN AS2293 EMERGENCY LIGHTING CONTROL SYSTEM TO CONTROL THE ASSOCIATED EMERGENCY LIGHTS. PROVIDE THE DB WITH SURGE PROTECTION. PROVIDE A SHOP DRAWING OF THE DISTRIBUTION BOARD FOR APPROVAL.								A
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE ( mm <sup>2</sup> )	LOCATION	CIRCUIT USE		
P1	1	20	RCBO	2.5	PLATFORM	GPOs	A	
P2	1	20	RCBO	2.5	PLANT	CR-A	A	
P3	1	20	RCBO	2.5	PLANT	GPOs	A	
P4	1	20	RCBO	2.5	FIRST AID	GPOs	A	
P5	1	20	RCBO	2.5	SOUTH AMENITY	GPOs	A	
P6	1	20	RCBO	2.5	SOUTH AMENITY	HAND DRYER	A	
P7	1	20	RCBO	2.5	NORTH AMENITY	GPOs	A	
P8	1	20	RCBO	2.5	NORTH AMENITY	HAND DRYER	A	
P9	1	40	RCBO	6.0	FIRST AID	HWS	A	
P10	1	20	RCBO	2.5	AMENITY	GPOs	A	
P11	1	20	RCBO	2.5	AMENITY	HAND DRYER	A	
P12	3	20	RCBO	2.5	SOUTH EXTERNAL	3 X 4.8KW HWS	A	
P13	3	20	RCBO	2.5	SOUTH EXTERNAL	3 X 4.8KW HWS	A	
P14	3	20	RCBO	2.5	NORTH EXTERNAL	3 X 4.8KW HWS	A	
P15	3	20	RCBO	2.5	NORTH EXTERNAL	3 X 4.8KW HWS	A	
L1	1	20	RCBO	2.5	AMENITY	1200 BATTEN LIGHTS	A	
L2	1	20	RCBO	2.5	CENTRAL ROOMS	LIGHTS	A	
L3	1	20	RCBO	2.5	SOUTHERN SIDE	LIGHTS	A	
L4	1	20	RCBO	2.5	NORTHERN SIDE	LIGHTS	A	



LEGEND

	ELECTRICAL SERVICES SWITCHBOARD.
	SWITCHBOARD / CONTROL PANEL NOT PROVIDED AS PART OF THE ELECTRICAL SUBCONTRACT.
	SINGLE POWER OUTLET.
	DOUBLE POWER OUTLET.
	SPECIAL PURPOSE POWER OUTLET.
	SINGLE PHASE ISOLATOR.
	THREE PHASE ISOLATOR.
	OUTLET PANEL
	ELECTRICAL PIT, TYPE AS NOTED.
	HAND DRYER CONNECTION.
	LIGHTING PRESENCE DETECTOR SWITCH, WALL MOUNTED.
	ONE-WAY LIGHT SWITCH.
	ONE-WAY LIGHT SWITCH, KEYED.
	TWO-WAY LIGHT SWITCH.
	CIRCUIT LINE.
	SWITCH LINE.
	POWER CIRCUIT DESIGNATION. DENOTES DB AND CIRCUIT.
	ELECTRICAL EQUIPMENT AS NOTED.
	RJ45 COMMUNICATIONS OUTLET.
	CCTV POINT.
	REFER TO DETAIL NOTED FOR THE AREA SHOWN HATCHED. ADDITIONAL OUTLETS & FITTINGS MAY BE SHOWN ON DETAIL.
	EX: EMERGENCY LED EXIT LIGHT.
	Lx: LIGHT FITTING C/W NON-MAINTAINED EMERGENCY BATTERY PACK. TYPE AS NOTED.
	L1: LINEAR EXTRUSION, WALL MOUNTED.
	L2: LINEAR EXTRUSION, SURFACE MOUNTED.
	L3: LINEAR EXTRUSION, 2400 LONG WALL MOUNTED.
	L4: LINEAR EXTRUSION, WALL MOUNTED.
	L5: LINEAR EXTRUSION, WALL MOUNTED.
	L6: LINEAR EXTRUSION, SURFACE MOUNTED.
	L7: 1200 LONG BATTEN C/W MOVEMENT SENSOR AND EMERGENCY PACK.
	L8: SPOT LIGHT.
	L9: LINEAR EXTRUSION, WALL MOUNTED.
	L10: UP / DOWN WALL MOUNTED SECURITY LIGHT.
	L11: DOWN WALL MOUNTED SECURITY LIGHT.

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.
- INSPECTIONS.
- TESTING AND COMMISSIONING.
- MAINTENANCE.
- CABLING, CABLE SUPPORT SYSTEMS AND ACCESS.
- POWER DISTRIBUTION.
- LIGHTING.
- COMMUNICATIONS CABLING.
- AS CONSTRUCTED DOCUMENTS.
- 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.

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.

IDENTIFY ALL EXISTING UNDERGROUND SERVICES WITHIN THE SCOPE OF THE WORKS PRIOR TO UNDERTAKING ANY EXCAVATION. 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.

REFER TO THE EQUIPMENT SCHEDULE FOR ADDITIONAL REQUIREMENTS.

2. WORKMANSHIP

ENSURE THAT THE ELECTRICAL WORK IS PERFORMED BY THE HOLDER OF A CURRENT ELECTRICAL SUB CONTRACTOR LICENSE AND THE SERVICES COVERED BY THE ACMA IS PERFORMED BY THE HOLDER OF THE APPROPRIATE CURRENT ACMA 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 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.

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.
- 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 EMERGENCY SERVICES.

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. POWER DISTRIBUTION

THE POWER DISTRIBUTION COMPONENT OF THIS CONTRACT INCLUDES THE PROVISION OF A NEW DISTRIBUTION BOARD DB-A SUPPLIED VIA NEW 4 X 1 CORE 95MM² CU XLPE / PVC + 50MM² E SUBMAIN FROM THE EXISTING CLUBHOUSE MSB. UPGRADE / MODIFY THE EXISTING CLUBHOUSE MSB TO CONTAIN A NEW 160 AMP THREE PHASE MCCB IN 0.75 RO PROTECT THE NEW SUBMAIN TO DB-A. THE MSB WILL BE REQUIRED TO BE PROVIDED WITH MOUNTING SUPPORT FOR THE NEW MCCB AS WELL AS MODIFICATIONS TO THE ESCUTCHEON AND A LOAD SIDE FLEXIBLE CONNECTION TO THE MCCB. UPDATE THE MSB LABELLING AT PRACTICAL COMPLETION.

THE EXISTING UNDERGROUND PIT AND CONDUIT SYSTEM AROUND THE FIELD IS TO BE UTILISED AND EXTENDED TO DB-A AND THE CLUBHOUSE MSB TO FACILITATE THE INSTALLATION OF THE NEW SUBMAIN. ALL CABLE ACCESS INTO THE CLUB HOUSE IS TO BE CONCEALED

ALL OF THE EXISTING ELECTRICAL SERVICES INCLUDING CIRCUITS, CABLING AND OUTLETS THAT BECOME REDUNDANT ARE TO BE REMOVED. ANY INTERRUPTION TO THE POWER SUPPLY TO ANY SERVICES OUTSIDE OF THE AREA OF WORKS MUST BE RESTRICTED TO OUTSIDE OF THE CLUBS OPERATING HOURS AND MUST BE ADVISED TO THE OPERATOR IN WRITING TWO WEEKS PRIOR.

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

- POWER DISTRIBUTION.
- MSB UPGRADE.
- DISTRIBUTION BOARD DB-A.
- SUBMAIN FROM THE MSB TO DB-A.
- CABLE ACCESS WAYS.
- CIRCUITS.
- ISOLATORS AND OUTLETS.
- TESTING AND COMMISSIONING.
- REMOVAL OF ALL EXISTING REDUNDANT SERVICES.

PROVIDE THE DB-A AS/WITH:

- SHOP DRAWINGS FOR APPROVAL.
- WALL MOUNTED.
- 316 STAINLESS STEEL.
- LIGHT GREY ENCLOSURE.
- WHITE ESCUTCHEONS WITH LIFT OFF HINGES AND 1/4 TURN LATCHES TO SECURE THE ESCUTCHEON THAT REMAIN PART OF THE ESCUTCHEON.
- 92268 KEY LOCKABLE DOOR.
- IP66
- FORM 1
- ENSURE ALL CABLE CONNECTIONS CAN BE THERMALLY SCANNED WITHOUT ISOLATING THE POWER.

REFER TO THE DISTRIBUTION BOARD SCHEDULES 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.
- 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.

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 THE PROVISION OF A 6 CORE SINGLE MODE UNDERGROUND FIBRE CABLE FULLY TERMINATED WITH LC TERMINATIONS RUN FROM A NEW FOBOT IN THE CLUB HOUSE COMMUNICATIONS RACK CR-CH TO A FOBOT IN A NEW COMMUNICATIONS RACK CR-A. SEPARATELY IDENTIFY EACH CORE AT BOTH ENDS.

THE EXISTING UNDERGROUND PIT AND CONDUIT SYSTEM AROUND THE FIELD IS TO BE UTILISED AND EXTENDED TO CR-A AND THE CLUBHOUSE COMMUNICATIONS RACK CR-CH TO FACILITATE THE INSTALLATION OF THE NEW FIBRE OPTIC CABLE. THE NEW FIBRE OPTIC CABLE IS TO SHARE THE PITS AND CONDUITS WITH THE NEW POWER SUBMAIN. ALL CABLE ACCESS INTO THE CLUB HOUSE IS TO BE CONCEALED.

THE NEW COMMUNICATIONS RACK CR-A IS TO CONTAIN CAT 6 PATCH PANELS TO SUPPLY THE NEW CAT 6 OUTLETS AND CAT 6 CCTV POINTS. ALL ACTIVE EQUIPMENT WILL BE BY THE CLUBS SPECIALIST CONTRACTORS.

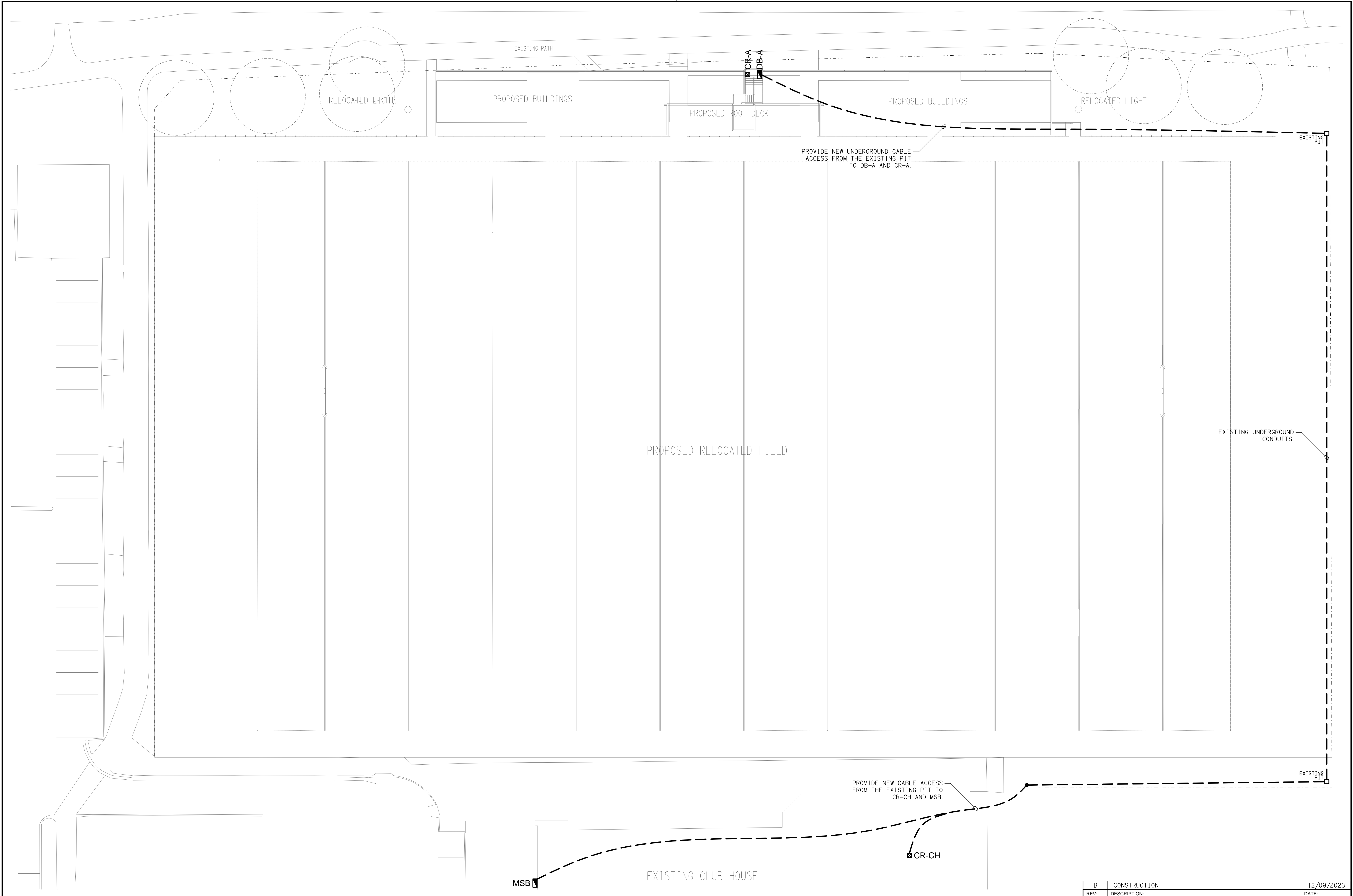
THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- NEW COMMUNICATIONS RACK CR-A.
- NEW FOBOT IN THE CLUBHOUSE COMMUNICATION RACK CR-CH.
- NEW FIBRE OPTIC CABLE.
- PATCH PANELS AS NECESSARY.
- CAT 6 COMMUNICATIONS OUTLETS AND CABLING.
- CAT 6 CCTV POINTS AND CABLING.
- CABLE ACCESS WAYS.
- TESTING AND COMMISSIONING.

9. ABBREVIATIONS

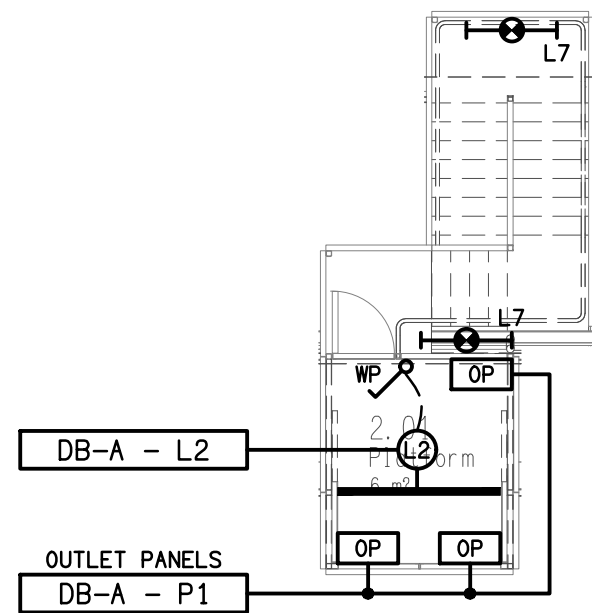
A - AMP CURRENT RATING  
AB - MOUNT ABOVE BENCH.  
AFFL - ABOVE FINISHED FLOOR LEVEL.  
BB - MOUNT BELOW BENCH.  
BH - MOUNT ON BULKHEAD.  
CEIL - MOUNT ON CEILING.  
CS - MOUNT WITHIN CEILING SPACE.  
C/W - COMPLETE WITH.  
MCB - MINIATURE CIRCUIT BREAKER.  
MSB - MAIN SWITCHBOARD.  
N - NEON / LED INDICATOR WHEN ON.  
NTS - NOT TO SCALE.  
QDC - QUEENSLAND DEVELOPMENT CODE.  
RCBO - CIRCUIT BREAKER C/W AN INTEGRAL 30ma RESIDUAL CURRENT DEVICE.  
RCD - CIRCUIT PROTECTED VIA A 30ma RESIDUAL CURRENT DEVICE.  
REF - REFRIGERATOR.  
UNO - UNLESS NOTED OTHERWISE.  
WP - WEATHERPROOF TO IP56 UNO.  
500 - NUMBER DENOTES MOUNTING HEIGHT AFFL.

<div>ELECTRICAL DESIGN GROUP BRISBANE PTY LTD ACN 092 710 793</div> <div>TRADING AS: ELECTRICAL DESIGN GROUP</div>	<div>THE COPYRIGHT OF THIS DRAWING REMAINS THE PROPERTY OF THE ELECTRICAL DESIGN GROUP.</div> <div>USE FIGURED DIMENSIONS IN PREFERENCE TO SCALE.</div> <div>ALL DIMENSIONS TO BE VERIFIED ONSITE.</div>	<div><div><div></div><div>ELECTRICAL DESIGN GROUP</div></div><div>ELECTRICAL BUILDING SERVICES CONSULTANTS</div><div>BRISBANE</div><div>P.O.Box 15, Sherwood Q.4075 Phone: (07) 3278 4375 Email: brisbane@edg.net.au Web: www.edg.net.au</div></div>	<div>PROJECT: ASPLEY LEAGUES CLUB - RUGBY AMENITIES</div> <div>29 KIRBY ROAD, ASPLEY, QUEENSLAND</div>	<div>C CONSTRUCTION</div> <div>12/09/2023</div>
				<div>REV: DESCRIPTION: DATE:</div>
				<div>DRAWING: ELECTRICAL SERVICES LEGEND &amp; NOTES</div> <div><div>SCALE: NOT TO SCALE AT A1</div><div><div>PROJECT NO: C3051a</div><div>DRAWING NO: E01</div><div>REVISION: C</div></div></div>



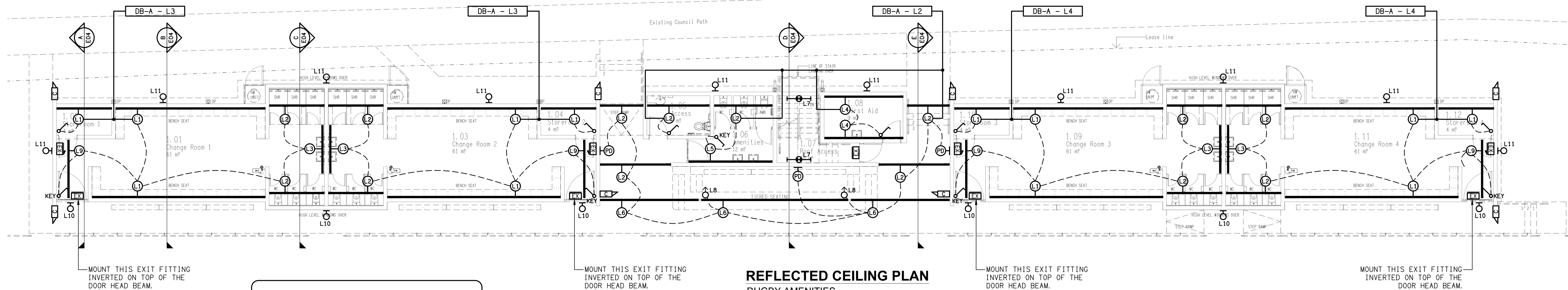
<div>ELECTRICAL DESIGN GROUP BRISBANE PTY LTD ACN 092 710 793</div> <div>TRADING AS: ELECTRICAL DESIGN GROUP</div>	<div>THE COPYRIGHT OF THIS DRAWING REMAINS THE PROPERTY OF THE ELECTRICAL DESIGN GROUP.</div> <div>USE FIGURED DIMENSIONS IN PREFERENCE TO SCALE.</div> <div>ALL DIMENSIONS TO BE VERIFIED ONSITE.</div>	<div><div><div></div><div>ELECTRICAL DESIGN GROUP</div></div><div>ELECTRICAL BUILDING SERVICES CONSULTANTS</div><div>BRISBANE GOLD COAST</div><div><div>P.O.Box 15, Sherwood Q.4075</div><div>Phone: (07) 3278 4375</div><div>Email: brisbane@edg.net.au</div><div>Web: www.edg.net.au</div></div></div>	PROJECT:	ASPLEY LEAGUES CLUB - RUGBY AMENITIES	
			29 KIRBY ROAD, ASPLEY, QUEENSLAND		
			DRAWING: <b>ELECTRICAL SERVICES SITE PLAN</b>		
SCALE: 1:200	AT A1	PROJECT NO: <b>C3051a</b>	DRAWING NO: <b>E02</b>	REVISION: <b>B</b>	





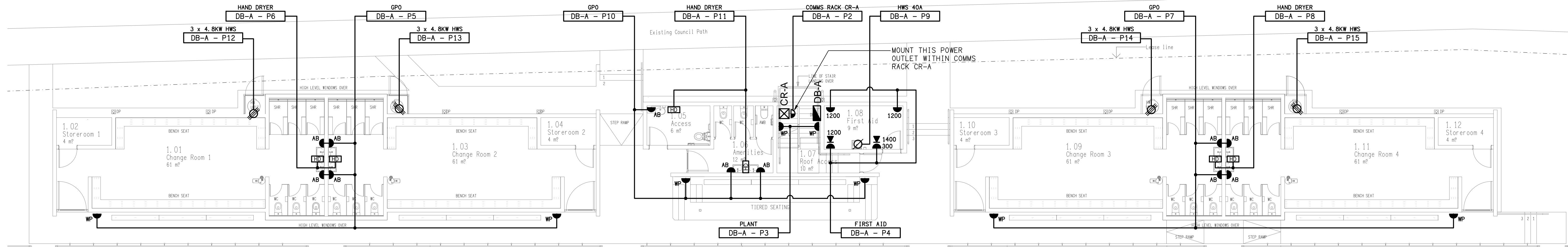
**ROOF PLATFORM**  
RUGBY AMENITIES  
SCALE 1: 100

**NOTE:**  
ALL L7, L10 & L11 FITTINGS ARE TO BE SUPPLIED FROM CIRCUIT DB-A - L1.

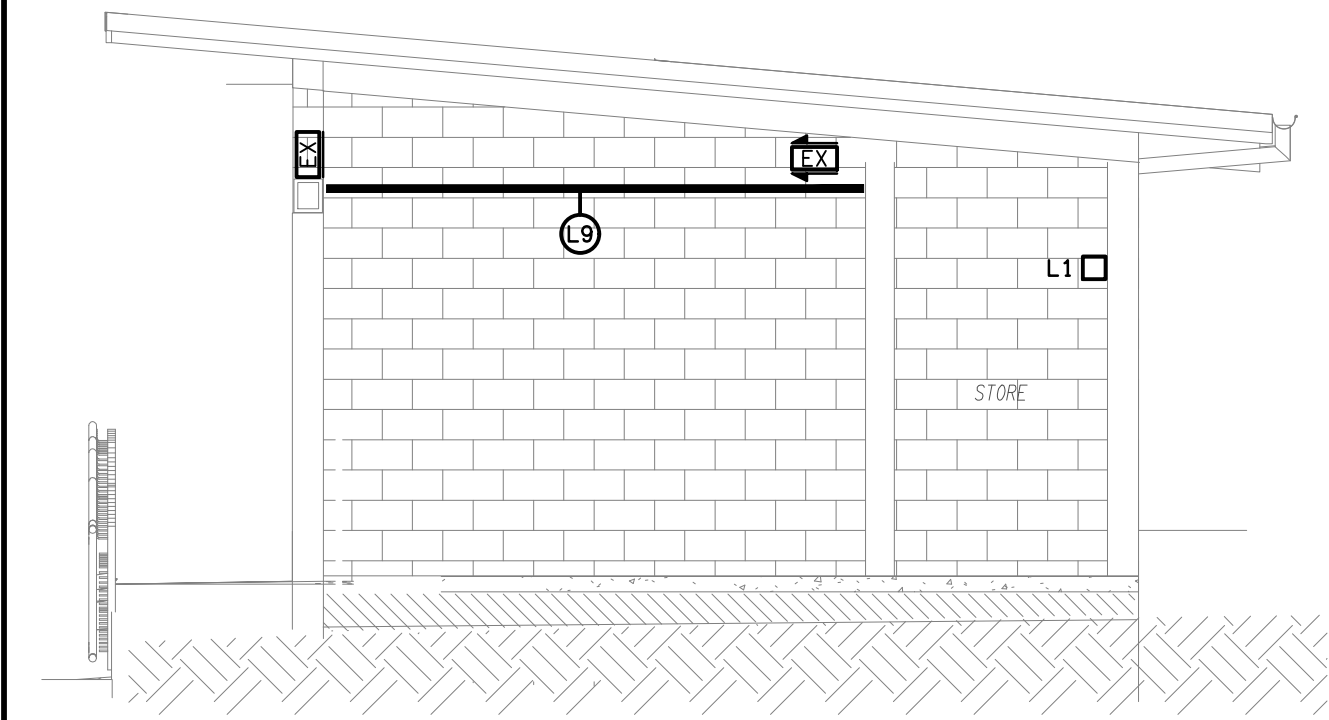


**REFLECTED CEILING PLAN**  
RUGBY AMENITIES  
SCALE 1: 100

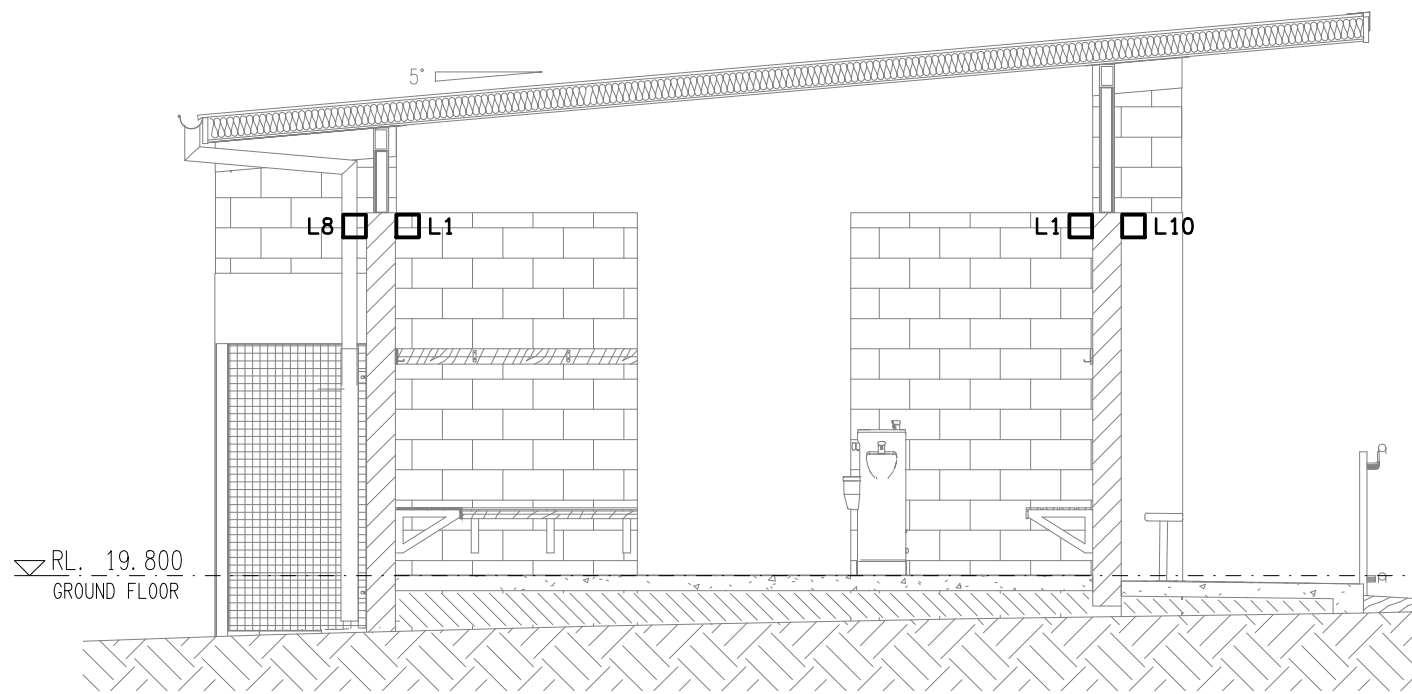
**NOTE**  
ALL ELECTRICAL PENETRATIONS THROUGH THE ROOF SHEETING ARE TO BE IN LINE WITH THE STRUCTURAL OR MECHANICAL SERVICES PENETRATIONS TO AVOID DEDICATED FLASHINGS FOR THE ELECTRICAL SERVICES.



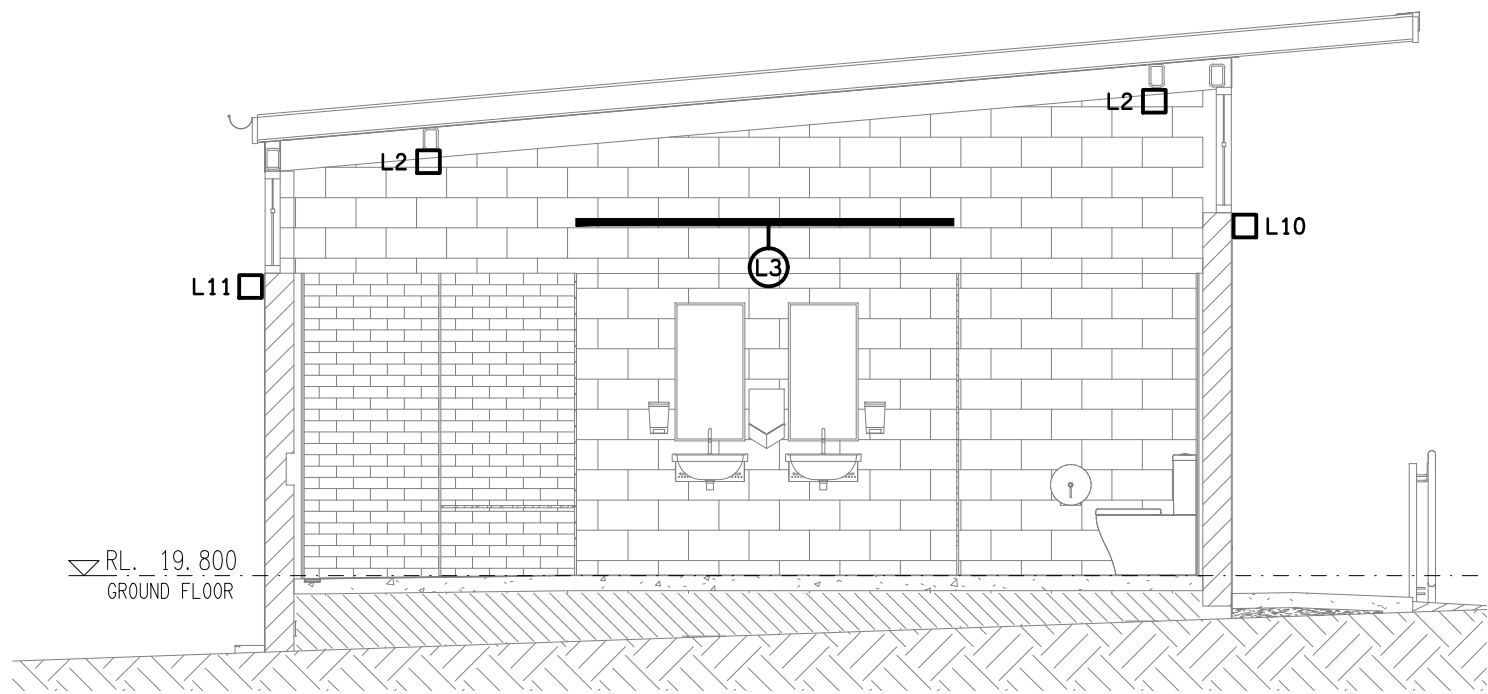
**FLOOR PLAN**  
RUGBY AMENITIES  
SCALE 1: 100



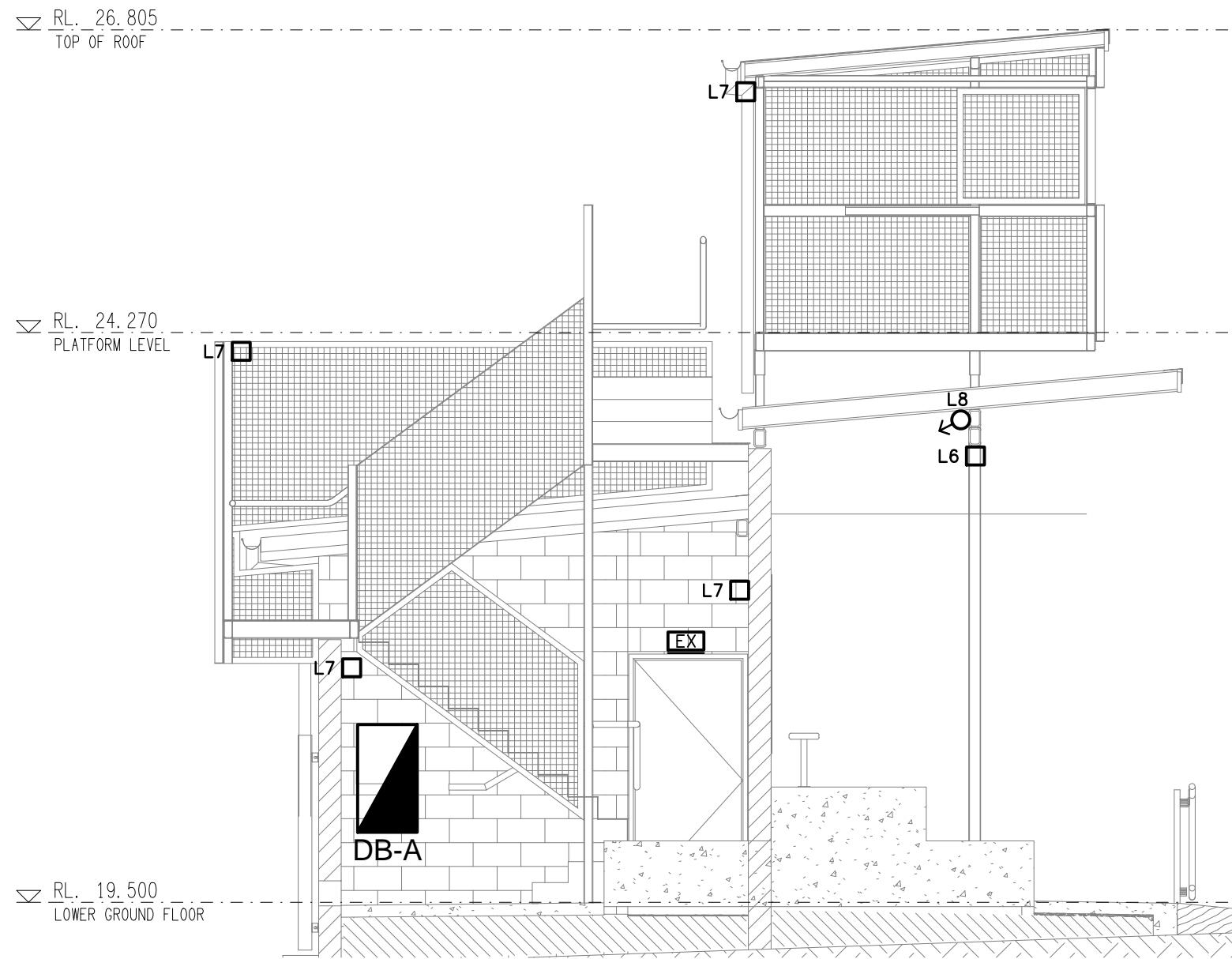
**DETAIL A**  
CHANGE ROOM ENTRY SECTION  
SCALE 1: 50



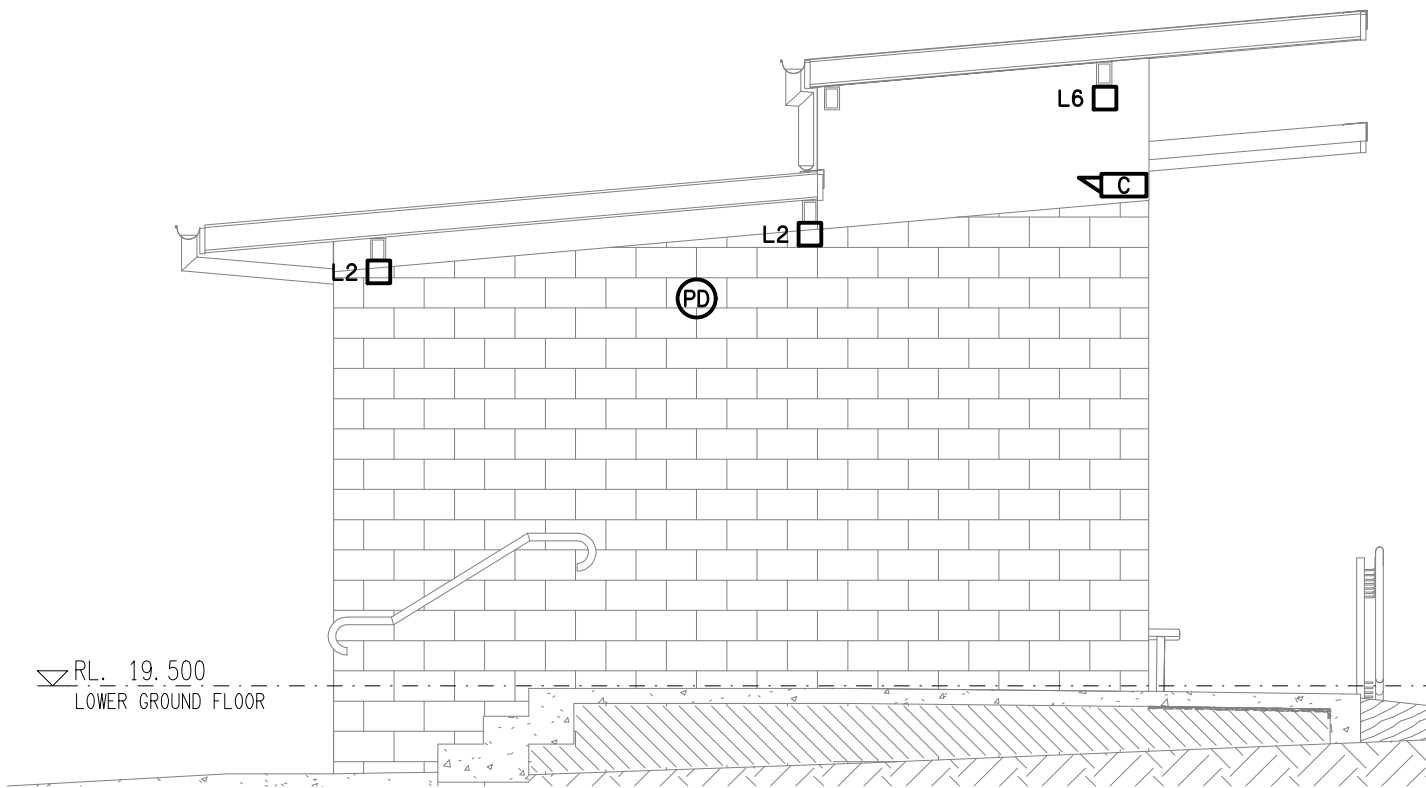
**DETAIL B**  
CHANGE ROOM SECTION  
SCALE 1: 50



**DETAIL C**  
CHANGE ROOM AMENITIES SECTION  
SCALE 1: 50



**DETAIL D**  
STAIRWELL SECTION  
SCALE 1: 50



**DETAIL E**  
CIRCULATION SECTION  
SCALE 1: 50