



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

C3581a - STUARTHOLME SCHOOL - INNOVATION CENTRE REFURBISHMENT

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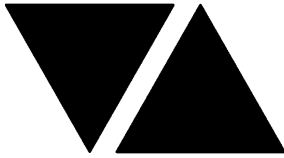
ELECTRICAL SERVICES CONTRACT DOCUMENT SCHEDULE

REVISION B - 18 SEPTEMBER 2025

ISSUING INFORMATION					DATE OF ISSUE									
					DAY	03	18							
					MONTH	09	09							
					YEAR	25	25							
					REASON FOR ISSUE	P	P							
A = APPROVAL					C = CONSTRUCTION					N = COORDINATION				
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DOCUMENTS					REVISION									
C3581a-E01.dwg	LEGEND				A	B								
C3581a-E02.dwg	NOTES				A	B								
C3581a-E03.dwg	FLOOR PLAN				A	B								
C3581a-E04.dwg	REFLECTED CEILING PLAN				A	B								
C3581a-0001.xls	CONTRACT DOCUMENT SCHEDULE				A	B								
C3581a-0002.xls	EQUIPMENT SCHEDULE					A								
C3581a-0004.xls	DISTRIBUTION BOARD DB-2 SCHEDULE					A								



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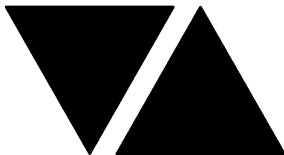
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ELECTRICAL EQUIPMENT SCHEDULE

REVISION A - 18 SEPTEMBER 2025

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	EXISTING 600 X 600 T-BAR TROFFER TO BE REPOSITIONED AS SHOWN				A
L2	34W 4000K LED	600 X 600 LAY IN FLAT PLATE LED FITTING C/W REMOTE DRIVER MOUNTED IN THE CEILING T BAR	WHITE TRIM	GAMMA ILLUMINATION AXIS 1548-4K-34W C/W FLUSH RECESS PB KIT	A
L3	22W 4000K LED	RECESSED DOWNLIGHT C/W REMOTE DRIVER	WHITE TRIM	GAMMA ILLUMINATION COBALT 1402-4K-22W	A
L4	13W 4000K LED	RECESSED DOWNLIGHT C/W REMOTE DRIVER	WHITE TRIM	GAMMA ILLUMINATION COBALT 1402-4K-13W	A
L5	13W 4000K LED	SURFACE MOUNTED CAN DOWNLIGHT C/W INTEGRAL DRIVER	BLACK FITTING AND CAN	GAMMA ILLUMINATION MODTRIM TUBE 1017SM-VWFL-4K-13W	A
L6	4000K LED +/- 10% 2200 LUMEN / M	SUSPENDED LINEAR EXTRUSION C/W INTEGRAL DRIVER AND OPAL DIFFUSER. THE UNDER SIDE OF THE L6 IS TO BE FLUSH WITH THE UNDERSIDE OF THE ADJACENT PB CEILING. EACH END OF THE L6 FITTING IS TO BE FIXED TO THE SIDE OF THE PB COFFER AS PER THE L6 MOUNTING DETAIL. THE SUSPENSIONS OF THE L6 ARE TO BE MINIMISED AND PROVIDED AS 3MM STAINLESS STEEL WIRE FROM THE GRID ABOVE.	BLACK	LIGHT CULTURE AUSTRALIA CENTAURI MINOR	A
E1	LED	EMERGENCY LIGHT: RECESSED NON-MAINTAINED EMERGENCY LIGHT. AS2293 CLASSIFICATION C0-D40 - C90-D40.	WHITE	CLEVERTRONICS CLIFE	A
E2	LED	EMERGENCY LIGHT: SURFACE MOUNTED NON-MAINTAINED EMERGENCY LIGHT MOUNTED ON / INTO A CUSTOM MADE BLACK SURFACE CAN SUCH THAT THE FITTING IS BELOW THE ADJACENT CEILING FEATURE BLADE. AS2293 CLASSIFICATION C0-D40 - C90-D40. PROVIDE DETAILS OF THE MOUNTING CAN FOR APPROVAL.	BLACK FITTING AND CAN	CLEVERTRONICS CLIFE-SM	A
E3	EXISTING RECESSED EMERGENCY LIGHT TO BE REPOSITIONED AS INDICATED				A



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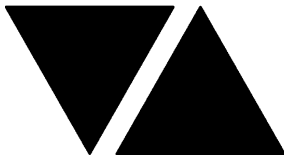
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www.edg.net.au/Links/Lighting.htm

TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
EX	LED	EXIT LIGHT: MAINTAINED 24M VIEWING DISTANCE EXIT LIGHT C/W DIFFUSERS & DIRECTIONAL ARROWS AS SHOWN. CEILING SURFACE MOUNT 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. PROVIDE A CUSTOM WHITE COUNTER LEAVER MOUNTING BRACKET AS REQUIRED AS2293 CLASSIFICATION C0-D8 - C90-E3.2.	WHITE	CLEVERTRONICS LUB PRO SM	A
SWITCH PANEL (SPx)		MULTI GANG SP TO INCLUDE LIGHTS, BLINDS AND AC. REQUIREMENTS ARE KNOWN.	DETAILS TO BE ADDED ONCE THE BLIND		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 UNLESS NOTED AS BLACK (BK)	CLIPSAL C2000 SERIES FACEPLATE	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 FACEPLATE	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 FACEPLATE	A
BLIND MOTOR OUTLETS (BM)		DOUBLE POWER OUTLET CONTROL CABLES TO THE ASSOCIATED SP TO BE ADDED	WHITE	CLIPSAL C2000 SERIES FACEPLATE	A
SPEAKER RECESSED		RECESSED 265 DIA DUAL CONE SPEAKER C/W 100V MULTI-TAP TRANSFORMER AND FLUSH GRILLE. EACH SPEAKER IS TO BE WIRED IN STAR CONFIGURATION TO THE ASSOCIATED SCHOOL BELL AMPLIFIER MOUNTED IN THE EXISTING SCHOOL BELL RACK.	WHITE GRILLE UNLESS NOTED AS BK THEN BLACK	EQUAL TO BOSCH LBC 3099/41	A
CAT 6 COMMUNICATIONS OUTLET		RJ45 CAT-6 COMMUNICATIONS OUTLET, CABLED BACK TO THE COMMUNICATIONS RACK CR-A TERMINATED ONTO FACILITY PATCH PANELS VIA 4-PAIR CAT-6 UTP CABLE. MOUNT UP TO 3 RJ45 OUTLETS PER MULTI-GANG FACEPLATE WITH SEPARATE PERMANENT LABELLING FOR EACH OUTLET.	WHITE UNLESS NOTED OTHERWISE. CEILING MOUNTED OUTLET TO MATCH CEILING COLOUR	CLIPSAL C2000 SERIES FACEPLATE	A
CAT 6 SALTO COMMUNICATIONS OUTLET		RJ45 CAT-6 COMMUNICATIONS MALE PLUG, CABLED BACK TO THE SECURITY PANEL VIA 4-PAIR CAT-6 UTP CABLE (DIFFERENT COLOUR TO THE COMMUNICATIONS CABLE TO BE USED FOR THE SALTO GATEWAY. THE PLUG IS TO HANG OUT OF THE CEILING VIA A 20MM PENETRATION WITH 100MM SLACK FOR CONNECTION TO THE SALTO GATEWAY.			A
COMMUNICATIONS RACK CR-A		EXISTING SERVER COMMUNICATIONS RACK TO BE MODIFIED AS PER THE COMMUNICATIONS NOTES.			A



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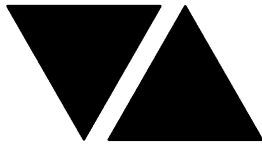
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TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
RECESS KIT (RK)		VERTICALLY ORIENTATED WALL BOX AT 1400AFFL TO ALLOW THE OUTLET TO BE RECESSED WITHIN THE WALL CAVITY	WHITE	REPELEC RECWP1WH	A
DB-2		EXISTING DISTRIBUTION BOARD TO BE PROVIDED WITH ADDITIONAL SWITCHGEAR TO ACCOMMODATE THE NEW DB-2 CIRCUITS. UPDATE THE SCHEDULE AT PRACTICAL COMPLETION.			A
MSB		EXISTING MAIN SWITCHBOARD TO BE PROVIDED WITH A NEW MCCB TO SUPPLY THE NEW ROOF PLANTROOM MSSB3 AS PER THE NOTES.			A
MSSB-3		NEW MECHANICAL SERVICES SWITCHBOARD PROVIDED BY THE MECHANICAL SERVICES SUB CONTRACTOR.			A
FIRE INDICATOR PANEL (FIP)		EXISTING FIRE INDICATOR PANEL TO BE MODIFIED AS NECESSARY TO ACCOMMODATE THE CHANGES TO THE FIRE ALARM SERVICES. UPDATE THE ZONE PLAN TO REFLECT THE REVISED LAYOUT AT PRACTICAL COMPLETION.			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
SMOKE DETECTOR		SURFACE MOUNTED SMOKE DETECTOR COMPATIBLE WITH THE EXISTING FIRE ALARM SYSTEM AND AS1670.1. WHITE ENSURE ALL SMOKE DETECTORS ARE PROVIDED AS AS 7240.7 POINT DETECTORS WITH A PERFORMANCE OF 6 TO 12 % OBS/M SET AT 7.8 %			A
SMOKE DETECTOR (SUS)		SURFACE MOUNTED BLACK SMOKE DETECTOR COMPATIBLE WITH THE EXISTING FIRE ALARM SYSTEM TO AS1670 MOUNTED ON A CUSTOM MADE BLACK SURFACE CAN SUCH THAT THE DETECTOR IS BELOW THE ADJACENT CEILING FEATURE BLADE. PROVIDE DETAILS OF THE MOUNTING CAN FOR APPROVAL. ENSURE ALL SMOKE DETECTORS ARE PROVIDED AS AS 7240.7 POINT DETECTORS WITH A PERFORMANCE OF 6 TO 12 % OBS/M SET AT 7.8 %			A
CONCEALED SPACE DETECTOR		CONCEALED SPACE SMOKE DETECTOR C/W REMOTE INDICATOR AND REMOTE ACCESS BRACKET IF REQUIRED COMPATIBLE WITH THE EXISTING FIRE ALARM SYSTEM AND AS1670.1. WHITE ENSURE ALL SMOKE DETECTORS ARE PROVIDED AS AS 7240.7 POINT DETECTORS WITH A PERFORMANCE OF 6 TO 12 % OBS/M SET AT 7.8 %			A
SECURITY PANELS		EXISTING SECURITY PANELS TO REMAIN AS IS			A
HDMI CONNECTION / OUTLET		PROVIDE A FACTORY TERMINATED HDMI 2 CABLE (LESS THAN 12M IN LENGTH) FROM THE TV RUN CONCEALED TO A WALL MOUNTED OUTLET AT 300 AFFL TO ALLOW REMOTE HDMI INPUTS TO BE CONNECTED TO THE TV.	WHITE	CLIPSAL C2000 SERIES FACEPLATE	A
TV AUDIO INTERFACE		INTERFACE AN AUDIO OUTPUT FROM THE TV INTO THE HEARING AUGMENTATION SYSTEM VIA CONCEALED CABLING.			A
DRQ RECESSED SPEAKER		CEILING RECESSED HEARING AUGMENTATION SPEAKER	WHITE	UCONNECT DQR SPEAKER	A
SOUND HOUSE (SH)		WALL RECESS HEARING AUGMENTATION SYSTEM ENCLOSURE	WHITE	UCONNECT SOUND HOUSE TBA	A
JOINING PANEL (JP)		WALL RECESS HEARING AUGMENTATION JOINING SYSTEM ENCLOSURE	WHITE	UCONNECT SOUND HOUSE TBA	A

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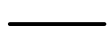
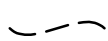
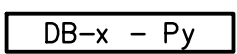

















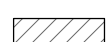










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DISTRIBUTION BOARD DB-2

REVISION A - 18 SEPTEMBER 2025

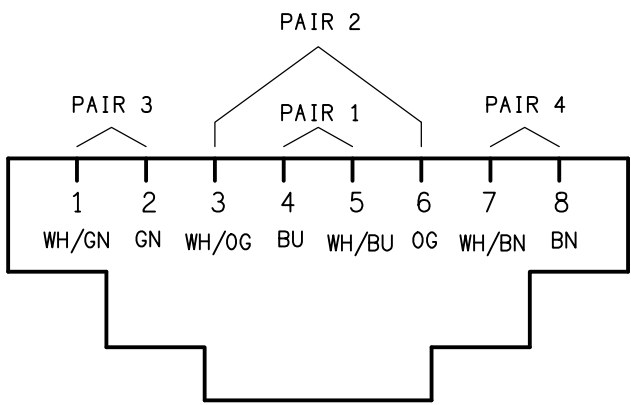
							REV
REMOVE THE EXISTING CIRCUITS AND SWITCHGEAR MADE REDUNDANT BY THE WORKS. PROVIDE NEW SWITCHGEAR THAT MATCHES THE EXISTING FOR THE FOLLOWING CIRCUITS. IT IS ACCEPTABLE TO UTILISE EXISTING SWITCHGEAR THAT BECOMES REDUNDANT IF IT IS IN GOOD CONDITION, HAS THE CORRECT RATING AND FUNCTION.							A
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE (mm2)	LOCATION	CIRCUIT USE	
P1	1	20	RCBO	2.5	GLA 1	GPOs	A
P2	1	20	RCBO	2.5	GLA 2	GPOs	A
P3	1	20	RCBO	2.5	GLA 3	GPOs	A
P4	1	20	RCBO	2.5	LIBRARY	GPOs	A
P5	1	20	RCBO	2.5	GLA 4	GPOs	A
P6	1	20	RCBO	2.5	JUNIOR LIBRARY	GPOs	A
P7	1	20	RCBO	2.5	ENTRY	CHARGER	A
P8	1	20	RCBO	2.5	RECEPTION	CLEANING	A
P9	1	20	RCBO	2.5	RECEPTION	PRINTER	A
P10	1	20	RCBO	2.5	RECEPTION	PRINTER	A
P11	1	20	RCBO	2.5	RECEPTION	PRINTER	A
P12	1	20	RCBO	2.5	STAFF KITCHEN	GPOs	A
P13	1	20	RCBO	2.5	STAFF KITCHEN	DISHWASHER	A
P14	1	20	RCBO	2.5	STAFF KITCHEN	AUTO BOILER	A
P15	1	20	RCBO	2.5	STAFF KITCHEN	REF	A
L1	1	20	RCBO	2.5	GLA 1	LIGHTING	A
L2	1	20	RCBO	2.5	GLA 2	LIGHTING	A
L3	1	20	RCBO	2.5	GLA 3	LIGHTING	A
L4	1	20	RCBO	2.5	GLA 4	LIGHTING	A
L5	1	20	RCBO	2.5	JUNIOR LIBRARY	LIGHTING	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.
-  TWO-WAY LIGHT SWITCH.
-  LIGHTING CONTROL SWITCH PANEL, TYPEx.
-  CIRCUIT LINE.
-  SWITCH LINE.
-  POWER CIRCUIT DESIGNATION. DENOTES DB AND CIRCUIT.
-  ELECTRICAL EQUIPMENT AS NOTED.
-  BLIND MOTOR / CONTROLLER.
-  SALTO CAT-6 OUTLET.
-  RJ45 COMMUNICATIONS OUTLET.
-  TELEPHONE HANDSET RECESSED COMMUNICATIONS OUTLET.
-  HDMI OUTLET / CONNECTION.
-  JOINING PANEL, WALL RECESSED.
-  TV TO SOUND HOUSE INTERFACE.
-  SOUND HOUSE, WALL RECESSED.
-  PA MULTI-TAP CONE SPEAKER.
-  DRQ RECESSED SPEAKER.
-  FIRE EVACUATION SPEAKER.
-  FIRE INDICATOR PANEL.
-  MANUAL CALL POINT.
-  SMOKE DETECTOR.
-  CONCEALED SPACE SMOKE DETECTOR.
-  BLACK SMOKE DETECTOR, MOUNTED ON A BLACK CAN.
-  REFER TO DETAIL NOTED FOR THE AREA SHOWN HATCHED. ADDITIONAL OUTLETS & FITTINGS MAY BE SHOWN ON DETAIL.
-  E1: GENERAL RECESSED LED EMERGENCY LIGHT.
-  E2: GENERAL BLACK CAN LED EMERGENCY LIGHT.
-  E3: EXISTING EMERGENCY LIGHT RELOCATED AS SHOWN.
-  EX: EMERGENCY LED EXIT LIGHT.
-  L1: EXISTING RELOCATED 600 x 600 LAY-IN LED FLAT PANEL.
-  L2: 600 x 600 PLASTERBOARD RECESSED LED FLAT PANEL.
-  L3: 28W RECESSED DOWNLIGHT.
-  L4: 22W RECESSED DOWNLIGHT.
-  L5: 28W BLACK CAN DOWNLIGHT.
-  L6: SUSPENDED EXTRUSION LIGHT.

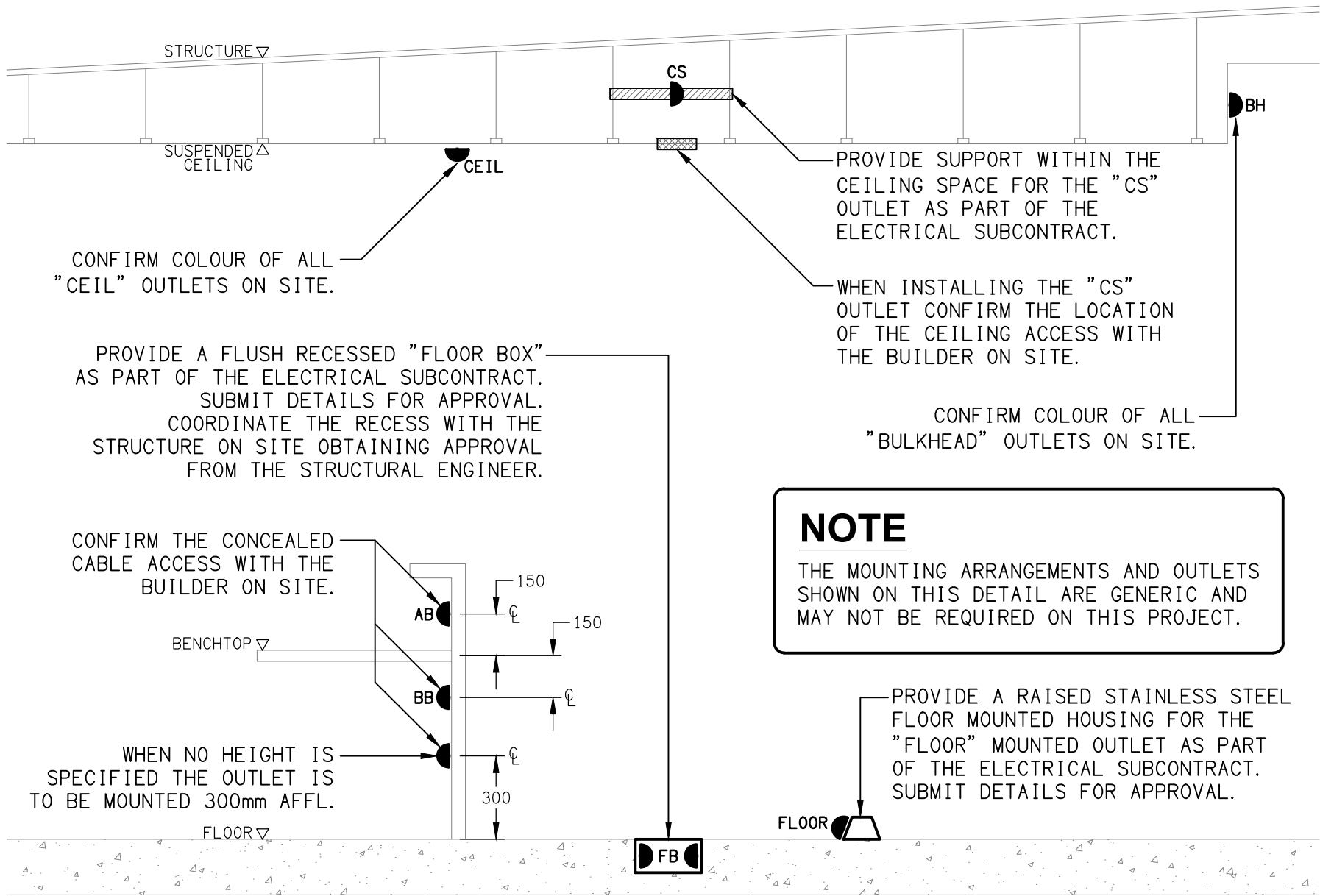
NOTE

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.



SCHEMATIC

RJ45 PINOUT CONFIGURATION
NOT TO SCALE



DETAIL

TYPICAL OUTLET MOUNTINGS
NOT TO SCALE

NOTE

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

PROVIDE A RAISED STAINLESS STEEL FLOOR MOUNTED HOUSING FOR THE "FLOOR" MOUNTED OUTLET AS PART OF THE ELECTRICAL SUBCONTRACT. SUBMIT DETAILS FOR APPROVAL.

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.
- HEARING AUGMENTATION.
- ELECTRONIC SECURITY.
- PA / SCHOOL BELL.
- FIRE DETECTION AND ALARM.
- 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.

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 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 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.
- AS1670. 1.
- 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 THE UPGRADING OF THE EXISTING DISTRIBUTION BOARD DB-2 TO ACCOMMODATE THE ADDITIONAL CIRCUITS AND CHANGES. A NEW MCCB IS TO BE PROVIDED IN THE MSB ALONG WITH A NEW SUBMAIN TO THE NEW MSSB3 LOCATED INT EH ROOF LEVEL MECHANICAL PLANT ROOM. THE POWER DISTRIBUTION COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- DB-2 MODIFICATIONS.
- EARTHING.
- REMOVAL OF EXISTING REDUNDANT CIRCUITS.
- CIRCUITS.
- ISOLATORS AND OUTLETS.
- MSB MCCB.
- MSSB3 SUBMAIN.
- CABLE SUPPORT SYSTEMS.
- TESTING AND COMMISSIONING.

PROVIDE A NEW THREE PHASE 160 AMP MCCB IN THE MSB LABELLED MSSB3. THE NEW MCCB AND LABEL ARE TO MATCH THE EXISTING MCCBS AND LABELS. PROVIDE A NEW 4c+E 70mm² Cu XLPE / PVC RUN CONCEALED FROM THE NEW MCCB TO THE NEW MSSB3 LOCATED IN THE ROOF LEVEL MECHANICAL PLANT ROOM. ENSURE THAT POWER IS MAINTAINED TO THE REMAINING PARTS OF THE BUILDING THAT ARE NOT PART OF THE WORKS BETWEEN 6.00AM AND 11.00PM. ANY INTERRUPTIONS TO THE POWER SUPPLY MUST BE LIMITED TO LESS THAN FOUR HOURS BETWEEN 11.00PM AND 6.00AM AND THE SCHOOL MUST BE PROVIDED WITH TWO WEEKS NOTICE PRIOR TO THE INTERRUPTION.

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.
- REMOVAL OF EXISTING REDUNDANT LIGHTING SERVICES.
- RELOCATION OF THE EXISTING LIGHTING SERVICES AS NOTED.
- EARTHING OF THE LIGHTING INSTALLATION.
- EMERGENCY AND EXIT LIGHTING.
- LIGHTING CONTROL.
- LIGHTING SUBCIRCUITS.
- TESTING AND COMMISSIONING.

THE GLAs ARE TO BE PROVIDED WITH SWITCH PANELS C/W FACILITY TO CONTROL THE ROOMS BLINDS AND AIRCONDITIONING.

8. COMMUNICATIONS

PROVIDE CAT 6 UTP COMMUNICATIONS OUTLETS CABLED TO CR-A. ALL OF THE EXISTING COMMUNICATION CABLES THAT BECOME REDUNDANT ARE TO BE REMOVED. REARRANGE THE PORTS WITHIN THE EXISTING CR-A PATCH PANELS AS DIRECTED BY THE SCHOOLS IT STAFF SUCH THAT THE TOP TWO PATCH PANELS BECOME FREE AND IN TURN ARE THEN TO BE USED TO FACILITATE THE CONNECTION OF THE NEW COMMUNICATIONS OUTLETS. THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- REMOVAL OF EXISTING REDUNDANT CABLING.
- NEW COMMUNICATIONS OUTLETS.
- MODIFICATION TO THE ARRANGEMENT OF THE EXISTING PATCH PANELS WITHIN CR-A AS REQUIRED.
- UPDATE THE PORT AND OUTLET LABELLING TO REFLECT THE FINAL AS CONSTRUCTED ARRANGEMENT AT PRACTICAL COMPLETION.
- HDMI OUTLETS.
- TESTING AND COMMISSIONING.

9. ELECTRONIC SECURITY

THE SECURITY COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE REMOVAL OF THE EXISTING INTRUDER DETECTION SERVICES WITHIN THE AREA OF THE WORKS.

EXPAND THE SCHOOLS EXISTING SALTO SYSTEM INTO THE BUILDING TO CONTROL THE NEW SALTO WIRELESS HARDWARE. THE WIRELESS DOOR HARDWARE WILL BE SUPPLIED AS PART OF THE DOOR HARDWARE PACKAGE. TURNKEY LOCKSMITHS, WARREN TURNBULL, 0410 007 124, locksmith@turnkeyqld.com IS TO BE ENGAGED AS A NOMINATED SUBCONTRACTOR TO THE ELECTRICAL SUBCONTRACTOR TO SUPPLY AND COMMISSION THE SALTO SYSTEM.

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

- REMOVAL OF EXISTING INTRUDER DETECTION SERVICES WITHIN THE AREA OF THE WORKS.
- EXPANSION OF THE SCHOOLS EXISTING SALTO SYSTEM.
- SALTO HUB CABLE.
- SALTO HUB.
- TESTING AND COMMISSIONING.

10. SCHOOL BELL / PA SYSTEM

MODIFY THE EXISTING SCHOOL BELL / PA SYSTEM WITH NEW SPEAKERS OUTSIDE OF THE GLAs CABLED BACK TO THE SCHOOL BELL RACK AND CONNECTED TO THE EXISTING AMPLIFIER. THE PA SYSTEM COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- NEW SPEAKERS AND CABLING AS REQUIRED.
- REMOVAL OF EXISTING REDUNDANT PA SYSTEM CABLING WITHIN THE SCOPE OF THE WORKS.
- CONNECTION OF THE SCHOOL BELL PA SYSTEM TO THE HEAR AND LEARN SOUND HOUSE HEARING AUGMENTATION SYSTEM IN EACH OF THE FOUR GLA ROOMS.
- TESTING AND COMMISSIONING.

THE EXISTING CABLING AND SPEAKERS CAN BE REUSED IF IT IS IN APPROPRIATE CONDITION AND THE CONTRACTOR ASSUMES FULL WARRANTY OVER IT AS IF THEY HAVE INSTALLED IT AS PART OF THESE WORKS.

NOTES

11. FIRE ALARM

THE FIRE ALARM COMPONENT OF THIS CONTRACT IS TO INCLUDE UPGRADING / MODIFYING THE EXISTING AS1670.1 FIRE DETECTION AND ALARM SYSTEM TO ACCOMMODATE THE PROPOSED WORKS.

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

- FIRE INDICATOR PANEL UPGRADE / MODIFICATION.
- SMOKE DETECTORS.
- CONCEALED SPACE DETECTORS.
- CABLING.
- PROVISION OF ANY ADDITIONAL SPEAKERS TO ACHIEVE EVACUATION SOUND LEVELS WITH A MINIMUM OF 10DB (A) ABOVE AMBIENT, AND NOT LESS THAN 65DB (A) AND NO MORE THAN 105DB (A).
- TESTING AND COMMISSIONING.
- LOG BOOK UPDATE.
- MAINTENANCE DURING THE DEFECTS AND LIABILITY PERIOD IN ACCORDANCE WITH MP6.1 OF THE QDC AND AS1851.
- PAY ALL COSTS ASSOCIATED WITH THE ISOLATION AND RECONNECTION OF THE BRIGADE MONITORING OF THE FIRE ALARM SYSTEM.

REMOVE ALL EXISTING REDUNDANT FIRE ALARM SERVICES.

THE CONTRACTOR IS RESPONSIBLE FOR PAYING ANY CALL OUT FEES ISSUED BY QFES THAT ARE THE RESULT OF DEFECTIVE WORKS, CABLING OR SYSTEM COMPONENTS

ENSURE ALL WORKS INSTALLED UNDER THE FIRE ALARM SYSTEM COMPONENT OF THE ELECTRICAL SUB-CONTRACT IS 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.

NOTES

12. HEARING AUGMENTATION

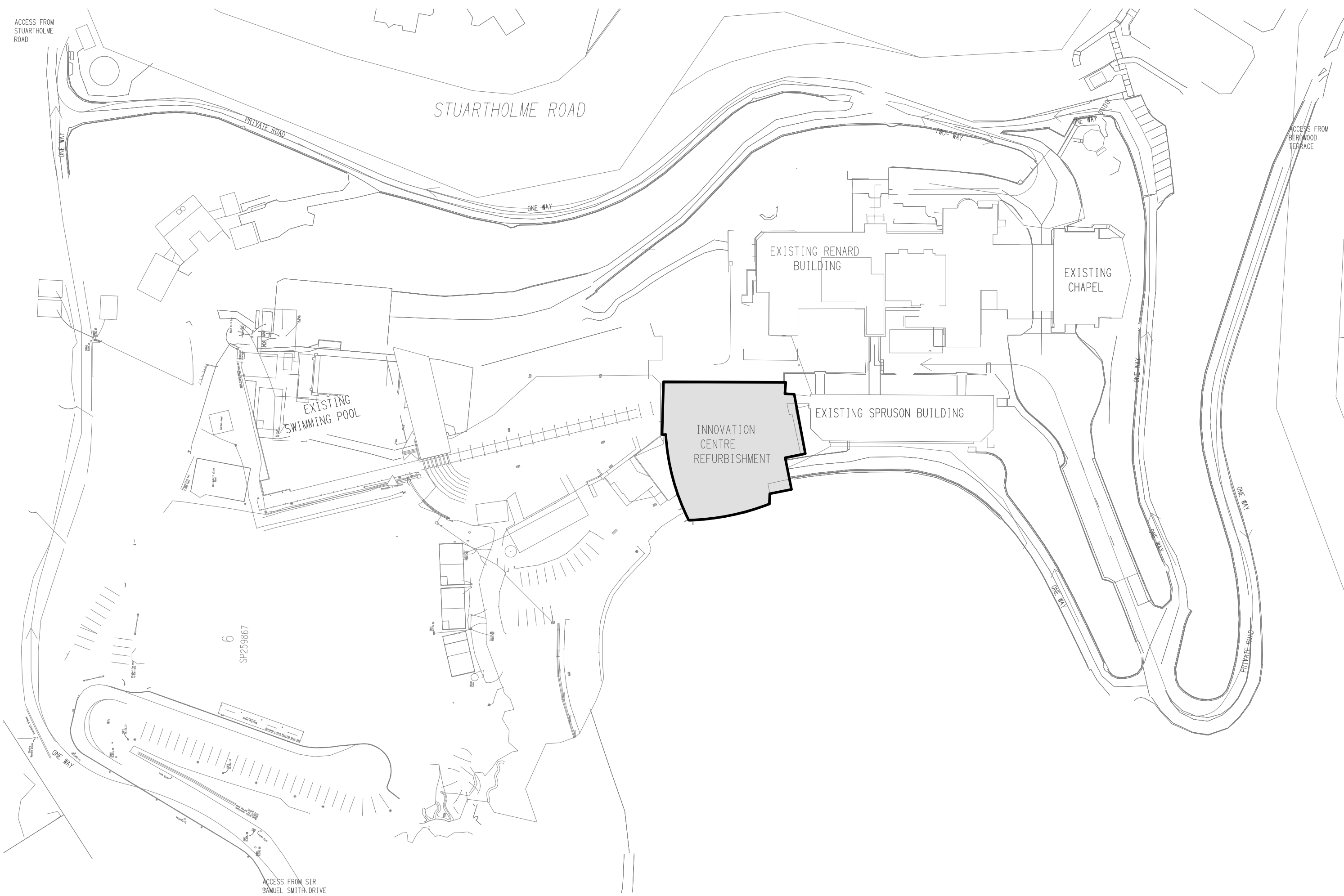
PROVIDE THE FOUR GLA ROOMS WITH A UCONNECT SOUND HOUSE HEARING AUGMENTATION SYSTEM. CONNECT THE HEARING AUGMENTATION SYSTEM TO THE EXISTING SCHOOL BELL / PA SYSTEM TO PROVIDED SCHOOL BELL / PA SYSTEM SERVICES THROUGH THE GLAs AS A PRIORITY SERVICE. THE ELECTRICAL SUB CONTRACT IS TO INCLUDE THE SUPPLY AND INSTALLATION OF ALL HEARING AUGMENTATION SYSTEM COMPONENTS. HEAR AND LEARN (03)9370 9355 ARE TO BE ENGAGED AS A NOMINATED SUBCONTRACTOR TO THE ELECTRICAL SUBCONTRACTOR TO COMMISSION THE HEARING AUGMENTATION SYSTEM AND PROVIDE STAFF TRAINING.

THE HEARING AUGMENTATION COMPONENT OF THIS CONTRACT IS TO INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- A UCONNECT SOUNDHOUSE SYSTEM WITHIN EACH OF THE FOUR GLAs.
- FLUSH RECESSED SPEAKERS.
- INTERFACES TO THE PA / SCHOOL BELL SYSTEM WITHIN EACH OF THE FOUR TEACHING SPACES.
- SOUND HOUSE ENCLOSURE C/W THE ASSOCIATED HEARING AUGMENTATION EQUIPMENT.
- INTERFACES TO THE TVS WITHIN EACH OF THE FOUR GLAs.
- A SYSTEM TO ALLOW THE HEAR AND LEARN SOUND HOUSE HEARING AUGMENTATION SYSTEMS IN GLAS 1, 2 AND 3 TO BE JOINED.
- TESTING, COMMISSIONING AND STAFF TRAINING.

13. ABBREVIATIONS

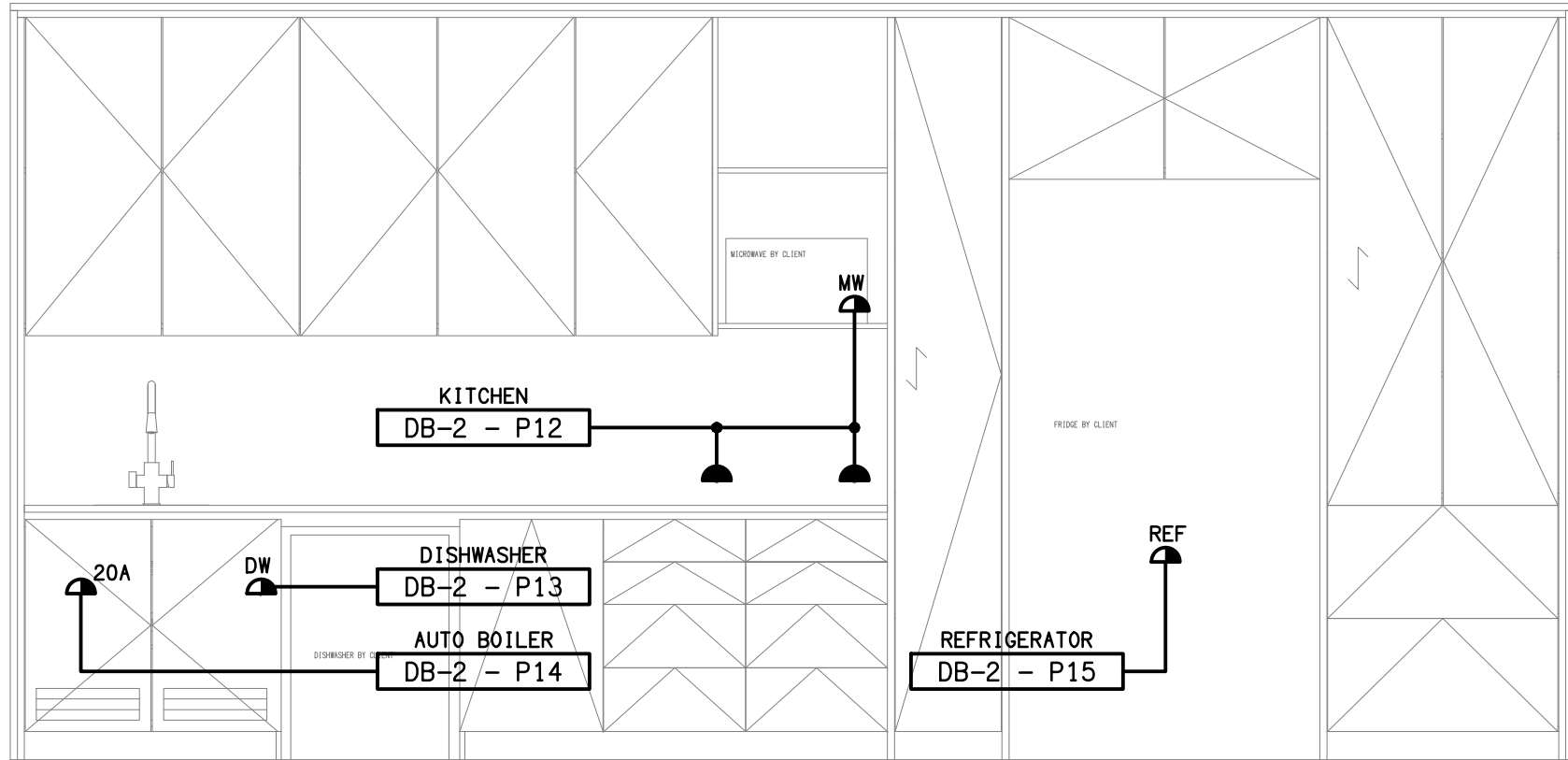
A - AMP CURRENT RATING
AB - MOUNT ABOVE BENCH.
AFFL - ABOVE FINISHED FLOOR LEVEL.
BB - MOUNT BELOW BENCH.
BH - MOUNT ON BULKHEAD.
CEIL - MOUNT ON CEILING.
CS - MOUNT WITHIN CEILING SPACE.
C/W - COMPLETE WITH.
DW - DISHWASHER.
MCB - MINIATURE CIRCUIT BREAKER.
MSB - MAIN SWITCHBOARD.
MSSB - MECHANICAL 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. 3-PHASE RCBO TO BE 4-POLE.
REF - REFRIGERATOR.
SC - OUTLETS MOUNTED ON THE SUPPORT STRUCTURE AS PER THE SC DETAIL.
SUS - MOUNT SUSPENDED FROM CEILING.
UNO - UNLESS NOTED OTHERWISE.
WP - WEATHERPROOF TO IP56 UNO.
500 - NUMBER DENOTES MOUNTING HEIGHT AFFL.



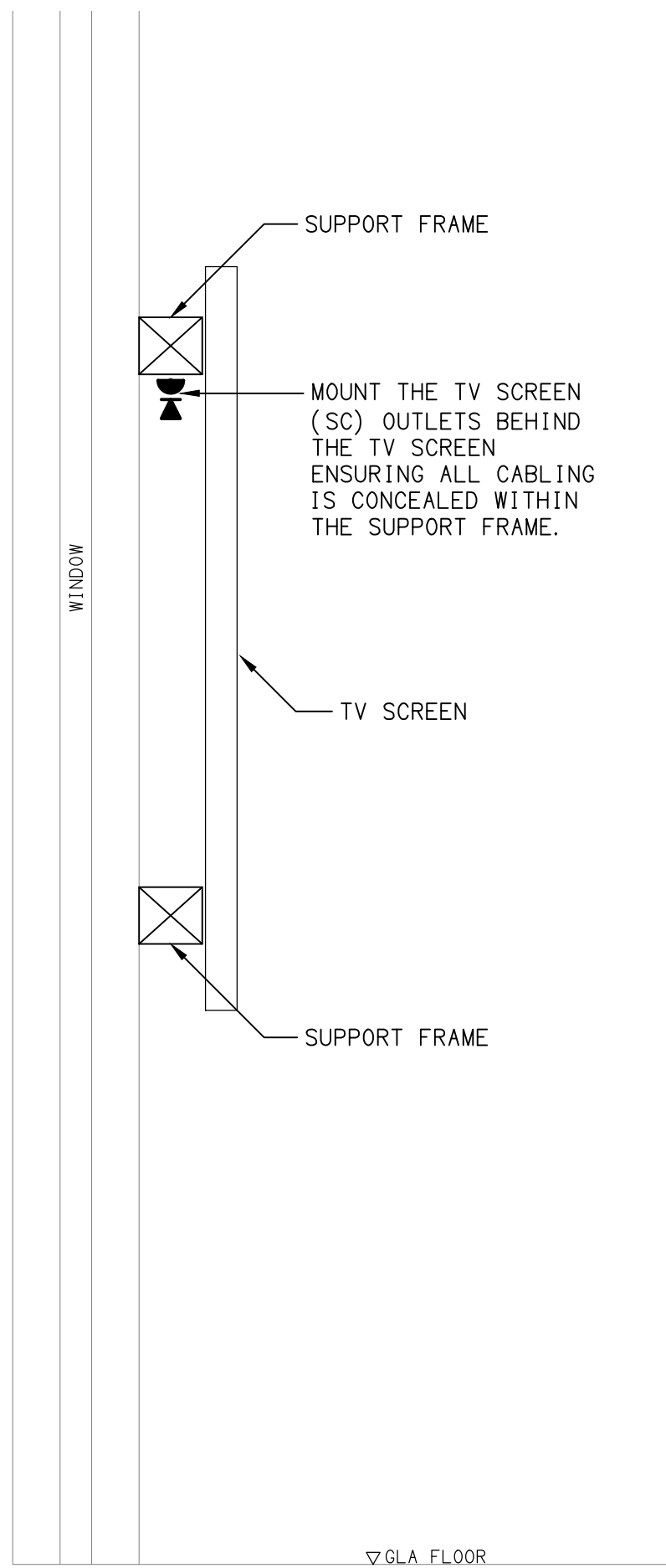
LOCATION PLAN

INNOVATION CENTRE REFURBISHMENT
SCALE 1:1000

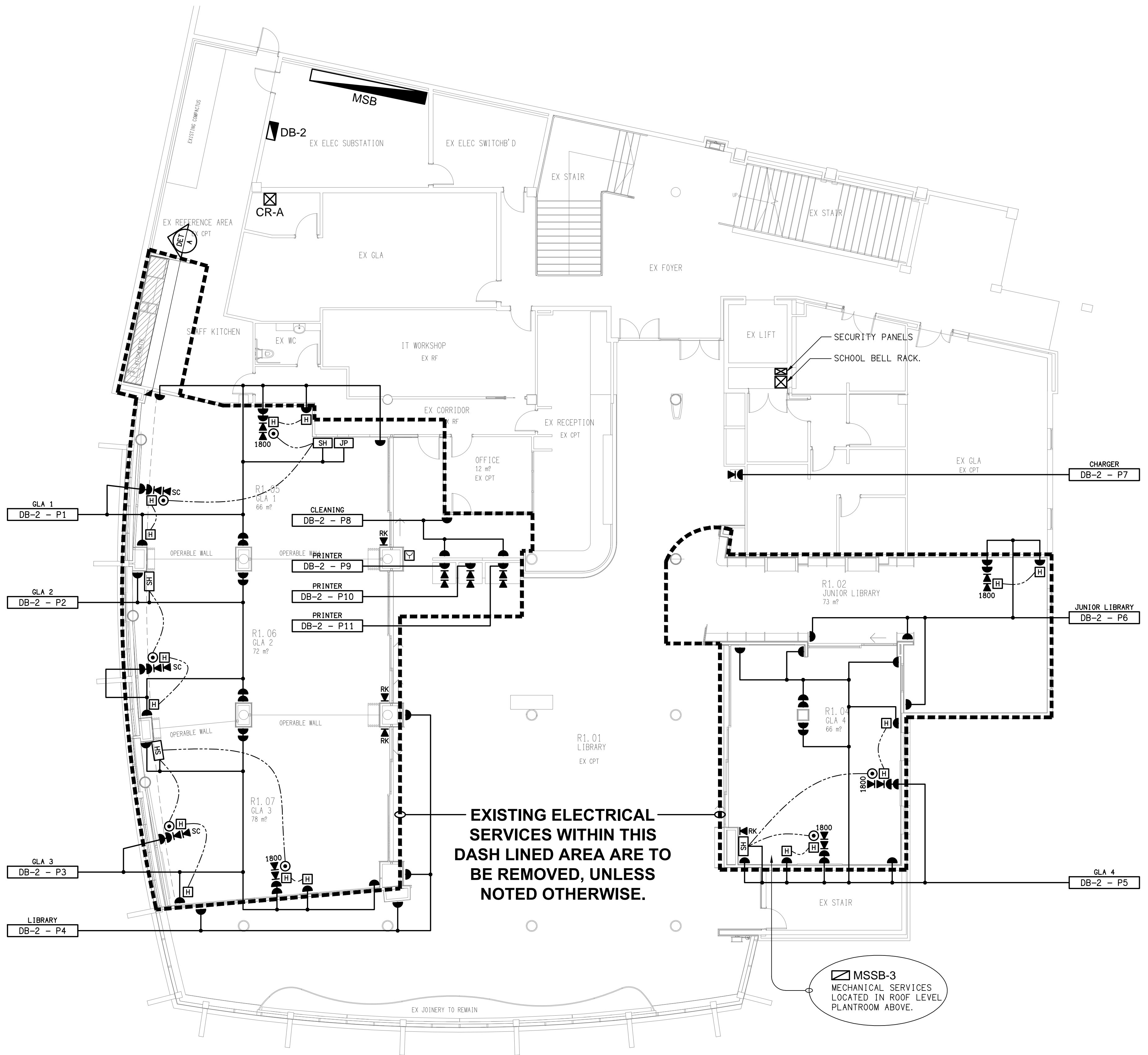
<div>ELECTRICAL DESIGN GROUP BRISBANE PTY LTD ACN 092 710 793</div> <div>TRADING AS: ELECTRICAL DESIGN GROUP</div>	<div>THE COPYRIGHT OF THIS DRAWING REMAINS THE PROPERTY OF THE ELECTRICAL DESIGN GROUP.</div> <div>USE FIGURED DIMENSIONS IN PREFERENCE TO SCALE.</div> <div>ALL DIMENSIONS TO BE VERIFIED ONSITE.</div>		<div><div><div><div></div></div><div>ELECTRICAL DESIGN GROUP</div></div><div>ELECTRICAL BUILDING SERVICES CONSULTANTS</div><div>BRISBANE</div><div>GOLD COAST</div><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>	<div>PROJECT: STUARTHOLME SCHOOL INNOVATION CENTRE REFURBISHMENT</div> <div>365 BIRDWOOD TERRACE, TOOWONG, QUEENSLAND</div>	<div>DRAWING: ELECTRICAL SERVICES NOTES</div> <div>SCALE: NOT TO SCALE AT A1</div> <div><div>PROJECT NO: C3581a</div><div>DRAWING NO: E02</div><div>REVISION: B</div></div>
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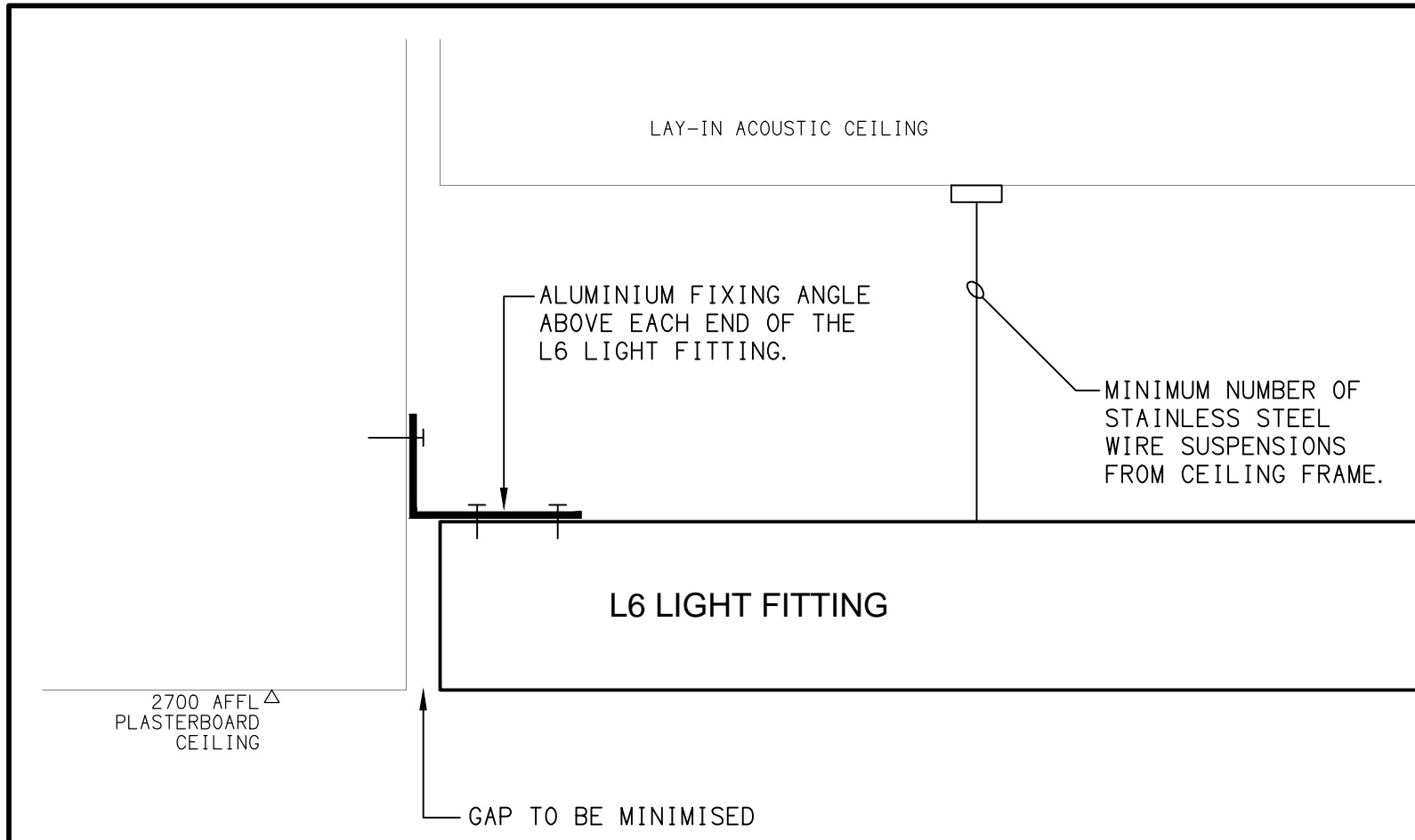


DETAIL A
STAFF KITCHENETTE ELEVATION
SCALE 1: 25



DETAIL B
TYPICAL SC OUTLET MOUNTING
NOT TO SCALE





DETAIL A
TYPICAL L6 LIGHT MOUNTING
NOT TO SCALE

