

C3631a - CANTERBURY COLLEGE SENIOR SCHOOL - TALNGAI PRECINCT

C3631a-0001(B).xls

ELECTRICAL SERVICES CONTRACT DOCUMENT SCHEDULE

REVISION B - 12 JUNE 2026

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

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[illegible]

LEGEND

	ELECTRICAL SERVICES SWITCHBOARD.
	SWITCHBOARD / CONTROL PANEL NOT PROVIDED AS PART OF THE ELECTRICAL SUBCONTRACT.
	SINGLE POWER OUTLET.
	DOUBLE POWER OUTLET.
	DOUBLE POWER OUTLET C/W USB CHARGER.
	DRINK FOUNTAIN OUTLET.
	SPECIAL PURPOSE POWER OUTLET.
	SINGLE PHASE ISOLATOR.
	THREE PHASE ISOLATOR.
	EMERGENCY SHUT OFF.
	JUNCTION BOX.
	x DENOTES CONDUIT TYPE.
	ELECTRICAL PIT, TYPE AS NOTED.
	HAND DRYER CONNECTION.
	LIGHTING PRESENCE DETECTOR SWITCH.
	LIGHTING CONTROL PANEL.
	ONE-WAY LIGHT SWITCH.
	TWO-WAY LIGHT SWITCH.
	EXHAUST HOOD LIGHTING CONNECTION.
	CIRCUIT LINE.
	SWITCH LINE.
	POWER CIRCUIT DESIGNATION. DENOTES DB AND CIRCUIT.
	ELECTRICAL EQUIPMENT AS NOTED.
	OUTLET MOUNTED IN RECESS KIT.
	RJ45 COMMUNICATIONS OUTLET.
	EXISTING COMMUNICATIONS RACK CR-H5 TO REMAIN AND BE PROVIDED WITH A NEW FIBRE CABLE.
	EXISTING COMMUNICATIONS RACK CR-G6 TO REMAIN AND BE PROVIDED WITH A NEW FIBRE CABLE.
	EXISTING COMMUNICATIONS RACK CR-K TO BE MODIFIED.
	NEW COMMUNICATIONS RACK CR-P.
	FREE TO AIR TELEVISION OUTLET.
	FREE TO AIR TELEVISION ANTENNA.
	ACCESS CONTROL CARD READER.
	ACCESS CONTROL SALTO READER.
	ACCESS CONTROL LIFT INTERFACE MODULE.
	SECURITY DIRECTIONAL MOTION DETECTOR.
	SECURITY PIEZO SIREN.
	PA HORN / HOOTER.
	RECESSED PA MULTI-TAP CONE SPEAKER.
	SURFACE MOUNTED PA MULTI-TAP CONE SPEAKER.

LEGEND

	EXISTING RETAIL METER.
	NCC BCA PART J METER.
	SOLAR CHECK METER.
	CIRCUIT BREAKER MOTOR UNIT.
	GRID PROTECTION WIRELESS PROTECTION RELAY.
	SOLAR DATA LOGGER.
	GRID SIGNALING DEVICE.
	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.
	FIRE INDICATOR PANEL.
	SURFACE MOUNTED SMOKE DETECTOR.
	SURFACE MOUNTED THERMAL DETECTOR.
	DUCT PROBE THERMAL DETECTOR.
	CONCEALED SPACE SMOKE DETECTOR.
	ASPIRATING SMOKE DETECTOR.
	VISUAL ALARM DEVICE.
	RECESSED FIRE ALARM SPEAKER.
	SURFACE MOUNTED FIRE ALARM SPEAKER.
	FIRE ALARM HORN SPEAKER.
	FIRE ALARM DOOR INTERFACE.
	DUST EXTRACTION VSD / EXHAUST CONTROL PANEL.
	DUST EXTRACTION FAN MOTOR CONNECTION.
	DUST EXTRACTION SHAKER MOTOR CONNECTION.
	DUST EXTRACTION DUCT SENSOR CONNECTION.
	DUST EXTRACTION REMOTE CONTROL CONNECTION.

LEGEND

	E1: GENERAL RECESSED LED EMERGENCY LIGHT.
	E2: GENERAL SURFACE MOUNTED LED EMERGENCY LIGHT.
	EX: EMERGENCY LED EXIT LIGHT.
	Lx: LIGHT FITTING C/W NON-MAINTAINED EMERGENCY BATTERY PACK. TYPE AS NOTED.
	L1: 600 x 600 T-BAR MOUNTED LED FLAT PANEL.
	L2: 600 x 600 PLASTER BOARD RECESSED LED FLAT PANEL.
	L3: 300 x 1200 PLASTER BOARD RECESSED LED FLAT PANEL.
	L4: 300 x 600 PLASTER BOARD RECESSED LED FLAT PANEL.
	L5: 1200 LONG SURFACE MOUNTED IP66 LED BATTEN C/W SENSOR.
	L6: 1200 LONG SURFACE MOUNTED IP66 LED BATTEN.
	L7: RECESSED AMENITY LED DOWNLIGHT.
	L8: RECESSED OFFICE DOWNLIGHT.
	L9: RECESSED CIRCULATION DOWNLIGHT.
	L10: CIRCULATION SURFACE MOUNTED CAN DOWNLIGHT.
	L11: 300 x 1200 T-BAR MOUNTED LED FLAT PANEL.
	L12: RECESSED DALI DIMMABLE COLA DOWNLIGHT.
	L13: RECESSED CAFE DOWNLIGHT.
	L14: RECESSED CANTEEN DOWNLIGHT.
	S1: LED STRIP LIGHT BEHIND DOOR HEAD C/W DOOR SWITCH.
	S2: CEILING MOUNTED LED STRIP LIGHT.
	S3: SUSPENDED LED EXTRUSION DOWNWARD OUTPUT.
	S4: SUSPENDED LED EXTRUSION UP/DOWN OUTPUT.
	S5: SUSPENDED ADJUSTABLE TRACK LIGHTING.

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.
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.

LEGEND

ART MSB		EXISTING ART MAIN SWITCHBOARD TO REMAIN AS IS.
MSB		EXISTING MAIN SWITCHBOARD TO BE MODIFIED.
OLD MSB		OLD MAIN SWITCHBOARD TO BE MODIFIED AND PROVIDED WITH A NEW SHELTER.
MDB-1		EXISTING MAIN DISTRIBUTION BOARD 1 TO REMAIN AS IS.
MDB-2		EXISTING MAIN DISTRIBUTION BOARD 2 TO REMAIN AS IS.
MDB-3		EXISTING MAIN DISTRIBUTION BOARD 3 TO REMAIN AS IS.
MDB-4		EXISTING MAIN DISTRIBUTION BOARD 4 TO REMAIN AS IS.
MDB-5		EXISTING MAIN DISTRIBUTION BOARD 5 TO TO BE REMOVED.
MDB-6		EXISTING MAIN DISTRIBUTION BOARD 6 TO REMAIN AS IS.
MDB-7		EXISTING MAIN DISTRIBUTION BOARD 7 TO BE REMOVED.
MDB-8		EXISTING MAIN DISTRIBUTION BOARD 8 TO BE MODIFIED.
MDB-9		NEW MAIN DISTRIBUTION BOARD 9.
DB-1		NEW DISTRIBUTION BOARD 1.
DB-2		NEW DISTRIBUTION BOARD 2.
DB-3		NEW DISTRIBUTION BOARD 3.
DB-4		NEW DISTRIBUTION BOARD 4.
DB-5		NEW DISTRIBUTION BOARD 5.
DB-6		NEW DISTRIBUTION BOARD 6.
DB-7		NEW DISTRIBUTION BOARD 7.
DB-8		NEW DISTRIBUTION BOARD 8.
DB-K1		NEW DISTRIBUTION BOARD K1.
DB-K2		NEW DISTRIBUTION BOARD K2.
DB-K3		NEW DISTRIBUTION BOARD K3.
INV 1		NEW SOLAR INVERTER 1.
INV 2		NEW SOLAR INVERTER 2.
MSSB-1		NEW MECHANICAL SERVICES SWITCHBOARD 1 BY MECHANICAL SUB CONTRACTOR.
MSSB-2		NEW MECHANICAL SERVICES SWITCHBOARD 2 BY MECHANICAL SUB CONTRACTOR.
MSSB-3		NEW MECHANICAL SERVICES SWITCHBOARD 3 BY MECHANICAL SUB CONTRACTOR.
MSSB-K		NEW MECHANICAL SERVICES SWITCHBOARD K BY MECHANICAL SUB CONTRACTOR.
REF		NEW REFRIGERATION SERVICES SWITCHBOARD BY REFRIGERATION SUB CONTRACTOR.
DGP		NEW DATA GATHERING PANEL.

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.
- SOLAR PV SYSTEM.
- LIGHTING.
- COMMUNICATIONS CABLING.
- PUBLIC ADDRESS SYSTEM.
- ACCESS CONTROL.
- INTRUDER DETECTION.
- FIRE ALARM SYSTEM.
- CORROSION PROTECTION
- ALL WORKS AND MATERIALS TO CREATE A SAFE WORK SITE INCLUDING RESTRICTING ACCESS TO NON-AUTHORISED PEOPLE.
- ALL MACHINERY REQUIRED TO COMPLETE THE INSTALLATION INCLUDING LIFTING AND HOISTING MACHINERY, TRANSPORTATION MACHINERY, WINCHES, FORKLIFTS, SCISSOR LIFTS, HOISTS, BOOMS, CHERRY PICKERS.
- ALL NECESSARY WASTE MANAGEMENT AND WASTE REMOVAL.
- 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 COLLEGE PRIOR TO ROUGH-IN.

UPDATE THE COLLEGES EXISTING AS BUILT DOCUMENTS AND MAINTENANCE MANUAL TO INCLUDE THE NEW WORKS.

2. WORKMANSHIP

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

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

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

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

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

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

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

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

3. STANDARDS

IRRESPECTIVE OF INFORMATION CONTAINED IN THE FIRE ALARM SYSTEM DOCUMENTS OR IN INSTRUCTIONS, IT IS THE FIRE ALARM SYSTEM SUB CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL FIRE ALARM SYSTEM WORKS ARE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FOLLOWING. REFER ANY DISCREPANCIES BETWEEN THE REQUIREMENTS OF THE FOLLOWING AND/OR THE FIRE ALARM SYSTEM 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.
- AS3008.
- AS1670.1.
- AS1670.
- 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.
- SOLAR ACCREDITATION AUSTRALIA.

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 MODIFYING THE EXISTING MSB AND OLD MSB. THE EXISTING MDB-8 SUBMAIN IS TO BE RELOCATED FROM THE MSB TO THE OLD MSB. THE SPACE IN THE MSB CREATED BY THE RELOCATION OF THE MDB-8 SUBMAIN IS TO BE USED TO SUPPLY A NEW SUBMAIN TO THE NEW MDB-9. THE EXISTING MDB-5 AND MDB-7 SWITCHBOARDS AND ASSOCIATED SUBMAINS ARE TO BE REMOVED.

THE NEW MDB-9 IS TO BE USED TO SUPPLY NEW SWITCHBOARDS IN THE LIBRARY / BLOCK P.

THE EXISTING MDB-8 IS TO BE MODIFIED TO SUPPLY NEW SWITCHBOARDS IN BLOCK K,

PROVIDE AN ENERGY MONITORING SYSTEM AS PER J9D3 OF THE NCC BCA 2022 THAT COLLATES THE TIME-OF-USE ENERGY DATA TO A SINGLE INTERFACE WHERE IT CAN BE STORED, ANALYSED AND REVIEWED. SUBMIT DETAILS OF THE ENERGY MONITORING SYSTEM FOR APPROVAL.

THE EXISTING ART MSB IS TO REMAIN AS IS.

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

- POWER DISTRIBUTION.
- EARTHING.
- MSB AND OLD MSB MODIFICATIONS.
- NEW UNDERGROUND PIT AND CONDUIT SYSTEM.
- NEW SUBMAINS FROM THE MSB TO MDB-9.
- NEW MAIN DISTRIBUTION BOARD MDB-9,
- ENERGY MONITORING SYSTEM.
- DISTRIBUTION BOARDS.
- SUBMAINS FROM MDB-8 AND MDB-9 TO THE ASSOCIATED DISTRIBUTION BOARDS, SOLAR INVERTERS AND THE MSSBS.
- 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.
- EMERGENCY SHUT OFFS
- TESTING AND COMMISSIONING.
- SWITCHBOARD SHOP DRAWING.

THE POWER SUPPLY TO THE REMAINDER OF THE COLLEGE MUST BE MAINTAINED AT ALL TIMES THE COLLEGE IS OPEN INCLUDING THE AFTER HOURS CARE. ANY INTERRUPTION TO THE POWER SUPPLY MUST BE ADVISED TO THE COLLEGE IN WRITING TWO WEEKS PRIOR.

ENSURE ALL OUTLETS AND ISOLATORS ARE POSITIONED SUCH THAT THEY ARE NOT COVERED BY THE EQUIPMENT. THE FINAL POSITION OF ALL OUTLETS AND ISOLATORS ARE TO BE CONFIRMED ON SITE BY THE COLLEGE.

7 SOLAR PV SYSTEM

PROVIDE A 200KW SOLAR PV INSTALLATION AS FOLLOWS:

- UNDERTAKEN BY AN INSTALLER WITH SOLAR ACCREDITATION AUSTRALIA (SAA) DESIGN AND INSTALLATION ACCREDITATION.
- ENERGEX APPROVALS, FEES AND CHARGES.
- RPEQ ENGINEERING AND DESIGN.
- SUPPLY AND INSTALLATION OF ALL COMPONENTS FORMING PART OF THE SOLAR SYSTEM INSTALLATION.
- ALL CABLING MUST BE COPPER.
- PROVIDE A ALUMINIUM OR HOT DIPPED GALVANIZED PV PANEL SUPPORT SYSTEM.
- PROVIDE THE SOLAR SYSTEM DC AND AC CABLING THAT HAS A LESS THAN COMBINED LOSS LESS THAN 3%.
- PROVIDE SHOP DRAWINGS AND TECHNICAL DETAILS OF EACH SOLAR SYSTEM INCLUDING ALL COMPONENTS AND THE PV PANEL LAYOUTS FOR APPROVAL.
- PROVIDE A HARD COPY OF THE ENTIRE SYSTEM DESIGN AND ALL INFORMATION ASSOCIATED WITH EACH SOLAR SYSTEM IN A PERMANENT DOCUMENT HOLDER ADJACENT EACH SYSTEM INVERTER.
- SIGNAGE AND LABELS.
- AC AND DC CABLING.
- AC AND DC ISOLATORS.
- PROVIDE THE INVERTER WITH NETWORK PROTECTION INTERFACED TO THE SITES EXISTING WIRELESS NETWORK PROTECTION SYSTEM.

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.
- 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.

NOTES

9. COMMUNICATIONS CABLING

THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES A NEW COMMUNICATION RACK CR-P TO SUPPORT CAT 6 RJ45 OUTLETS CABLED TO MODULAR PATCH PANELS IN THE COMMUNICATIONS RACK CR-A VIA CAT 6 UTP CABLING. PROVIDE THE FOLLOWING THE EXISTING RACKS CRH5, CRG6 AND THE NEW RACK CR-P WITH 12 CORE OS2 OPTICAL FIBRE CABLES FULLY TERMINATED WITH LC CONNECTORS RUN BACK TO THE EXISTING SERVER RACK.

THE LIBRARY AND BLOCK P COMMUNICATIONS OUTLETS ARE TO BE CABLED BACK TO CR-P.

THE BLOCK K COMMUNICATIONS OUTLETS ARE TO BE CABLED BACK TO THE EXISTING RACK CR-K.

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

PROVIDE A DIGITAL FREE TO AIR TELEVISION ANTENNA ON THE LIBRARY SERVICING A TV OUTLET IN THE EXISTING SERVER RACK.

AS PART OF THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT PROVIDE CAT 6 RJ45 CCTV AND VAPE SENSOR PLUGS. THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- COMMUNICATIONS OUTLETS AND CABLING.
- CCTV AND VAPE PLUGS AND CABLING.
- COMMUNICATIONS RACK CR-P.
- PATCH PANELS.
- FOBOT.
- OPTICAL FIBRE CABLES.
- TV ANTENNA AND OUTLET.
- 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, VAPE SENSORS, CCTV CAMERAS AND ACTIVE COMMUNICATIONS EQUIPMENT WILL BE PROVIDED BY THE COLLEGE.

10. PUBLIC ADDRESS SYSTEM

THE PUBLIC ADDRESS SYSTEM COMPONENT OF THIS CONTRACT INCLUDES MULTI TAP 100V SPEAKERS AND HORNS CABLED TO POWER AMPLIFIERS MOUNTED WITH IN THE TOP OF COMMUNICATIONS RACKS CR-P AND CR-K. PROVIDE THREE SEPARATE AMPLIFIERS CONFIGURED AS SEPARATE ZONES BEING EXTERNAL AND ONE ZONE FOR EACH LEVEL. 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
- RACK MOUNTED AMPLIFIERS.
- CO-ORDINATION.
- TESTING, COMMISSIONING AND BALANCING.
- MAINTENANCE.
- AS CONSTRUCTED DOCUMENTS INCLUDING DRAWINGS DETAILING THE LOOP PATH OF EACH SPEAKER CABLE.
- OPERATION AND MAINTENANCE MANUAL.
- CABLING, CABLE SUPPORT SYSTEMS AND ACCESS.
- ALL MINOR COMPONENTS AND INCIDENTAL WORKS NOT SPECIFICALLY REFERRED TO, HOWEVER NECESSARY TO COMPLETE THE PUBLIC ADDRESS SYSTEM INSTALLATION SUCH THAT IT IS HANDED OVER COMPLETE, OPERATIONAL AND FIT FOR THE INTENDED USE.

ALL PUBLIC ADDRESS SYSTEM WORKS MUST BE UNDERTAKEN BY AN ACMA LICENCE HOLDER. THE AUDIO / IP CONVERTERS, THE CONNECTION OF THE AMPLIFIERS TO THE AUDIO / IP CONVERTERS AND PATCH LEADS WILL BE PROVIDED BY THE COLLEGE.

PROVIDE COMPREHENSIVE DETAILS OF THE PROPOSED EQUIPMENT AND COMPONENTS OF THE PA SYSTEM FOR APPROVAL.

11. SECURITY

THE SECURITY SYSTEM COMPONENT OF THIS CONTRACT INCLUDES THE EXPANSION OF THE COLLEGES EXISTING INNER RANGE INTEGRITY SECURITY SYSTEM INTO THE BUILDING TO PROVIDE INTRUDER DETECTION AND ACCESS CONTROL. PROVIDE THE BMS PANEL WITH A LOW-LEVEL SIGNAL TO INDICATE THE ARMING STATUS OF THE SECURITY SYSTEM TO THE BMS. COORDINATE THE CONNECTION WITH THE BMS CONTRACTOR ON SITE.

CONNECT THE BUILDING SECURITY EQUIPMENT TO THE EXISTING SYSTEM VIA THE COLLEGES ETHERNET NETWORK VIA A COLE ETHERNET BRIDGE. THE ETHERNET SETTINGS ARE TO BE COORDINATED WITH THE COLLEGES IT STAFF.

PROVIDE ACCESS CONTROL BY EXPANDING THE COLLEGES EXISTING SALTO ACCESS CONTROL SYSTEM TO THE NOMINATED DOORS AND THE LIFT.

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

- INTRUDER DETECTION SYSTEM POWER SUPPLY AND DISTRIBUTION.
- EARTHING.
- MOVEMENT DETECTORS.
- PIEZO ALARMS.
- KEY PANELS.
- ZONE EXPANDERS.
- ETHERNET BRIDGES.
- CARD READERS.
- SALTO DOOR CONTROLLERS.
- AUTO DOOR INTERFACES.
- LIFT INTERFACE.
- CABLING.
- CABLE ACCESS WAYS.

12. FIRE ALARM SYSTEM.

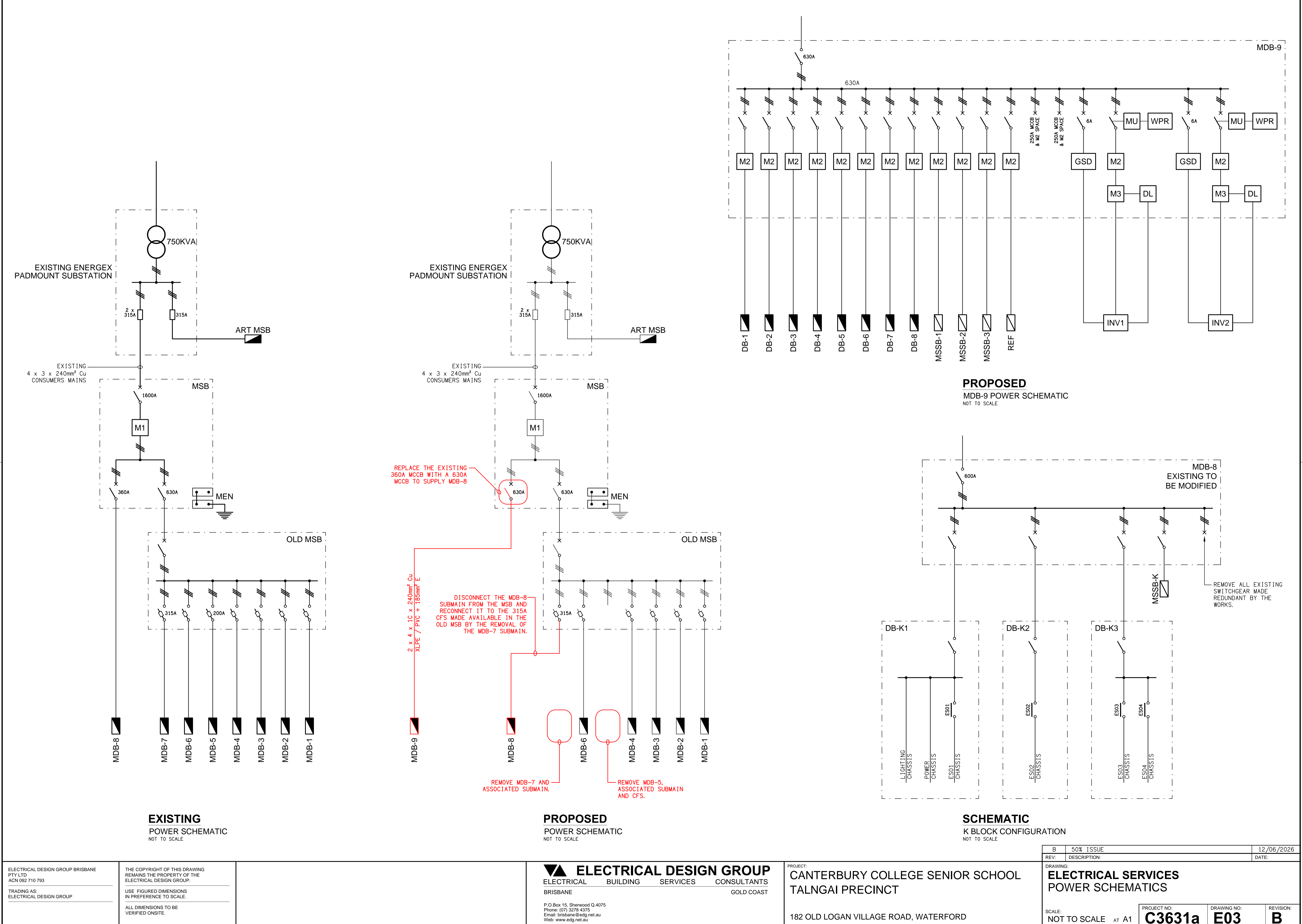
REMOVE THE EXISTING LIBRARY FIRE ALARM SYSTEM AND PROVIDE A NEW NON-BRIGADE MONITORED AS1670.1 COMPLIANT ADDRESSABLE FIRE ALARMS SYSTEM THROUGHOUT THE LIBRARY AND BLOCK B.

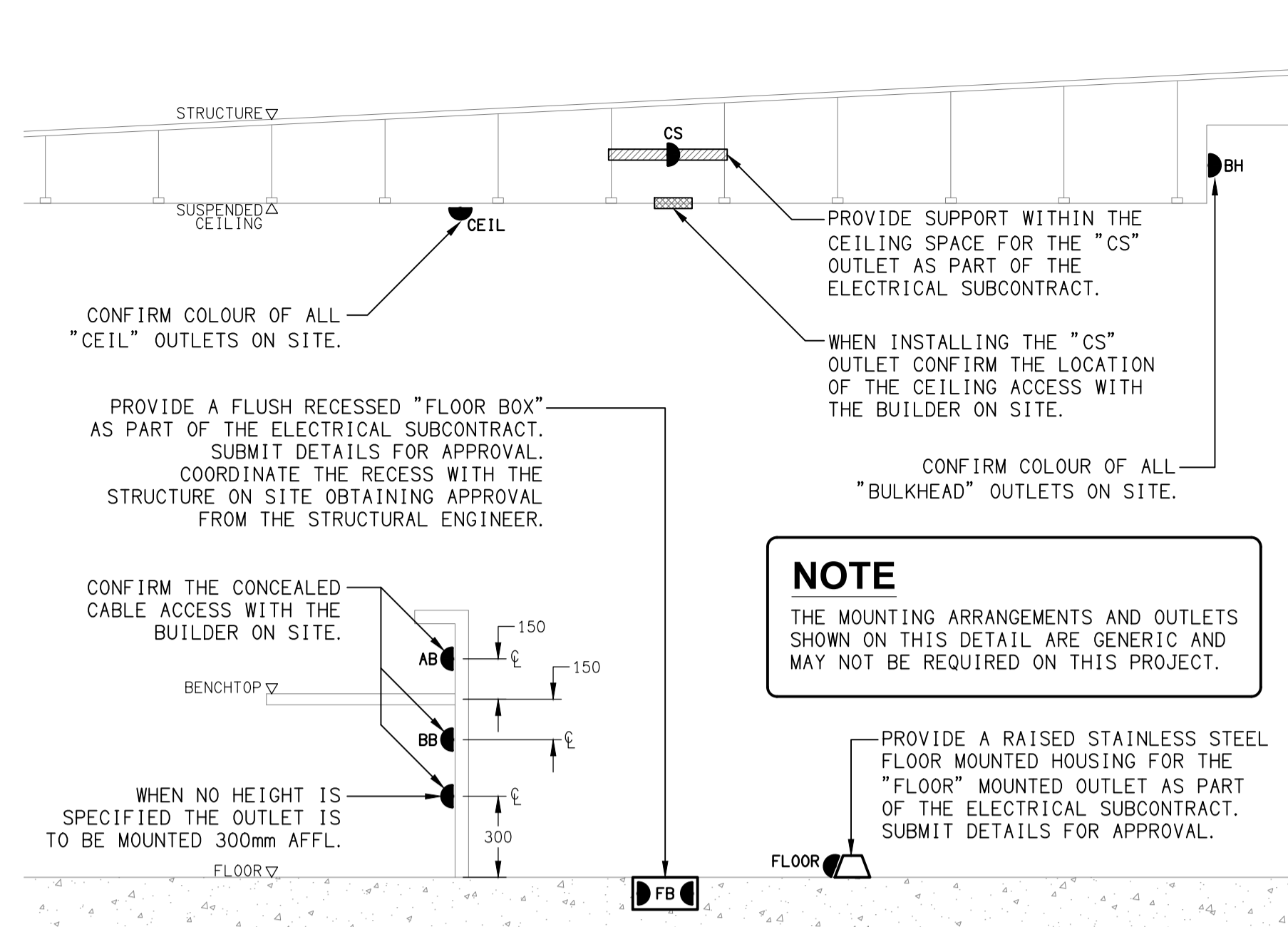
THERE ARE NO FIRE ALARM SYSTEM REQUIREMENTS IN BLOCK K.

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

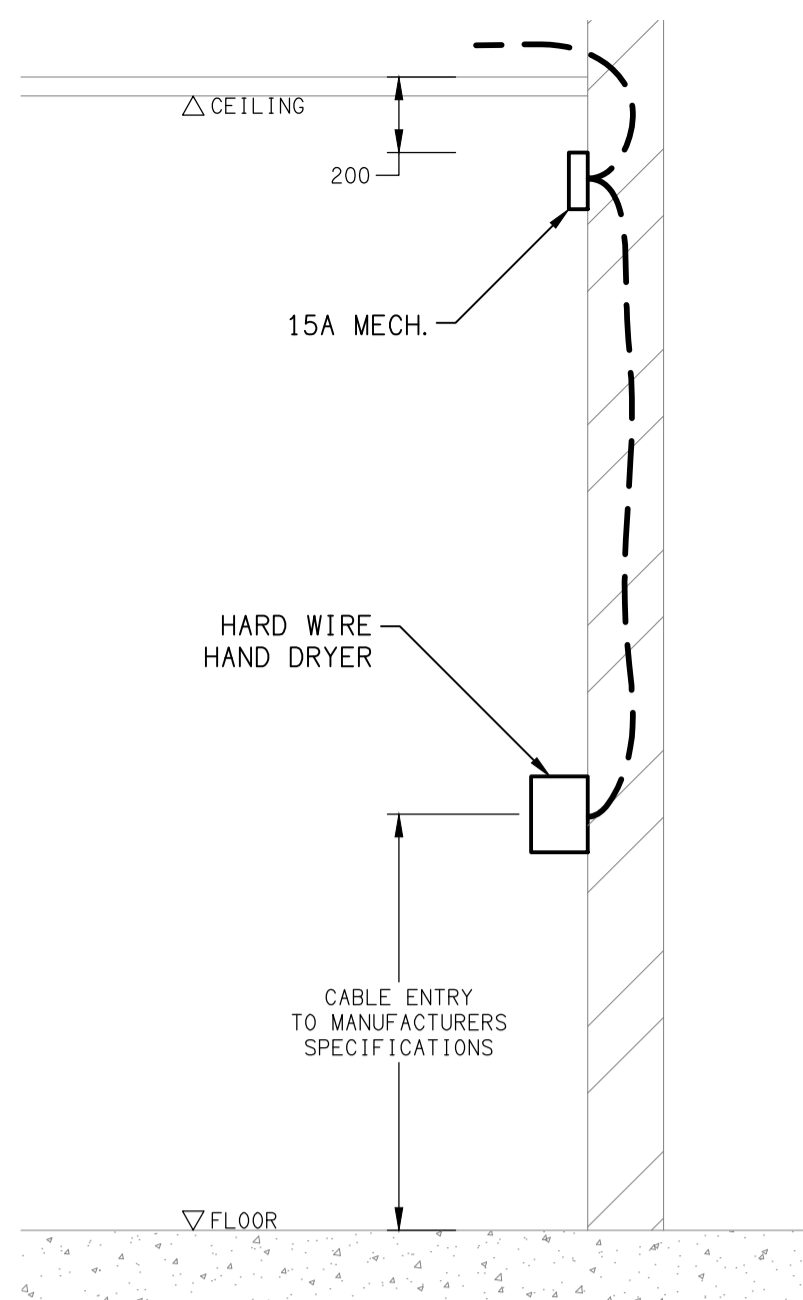
- FIRE INDICATOR PANEL INCORPORATING THE EWCIE AND FDCIE
- DETECTORS.
- SPEAKERS AND HORNS.
- DOOR INTERFACES.
- CABLING.
- CABLE ACCESS WAYS.

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				182 OLD LOGAN VILLAGE ROAD, WATERFORD		DRAWING NO: E02	
						REVISION: B	

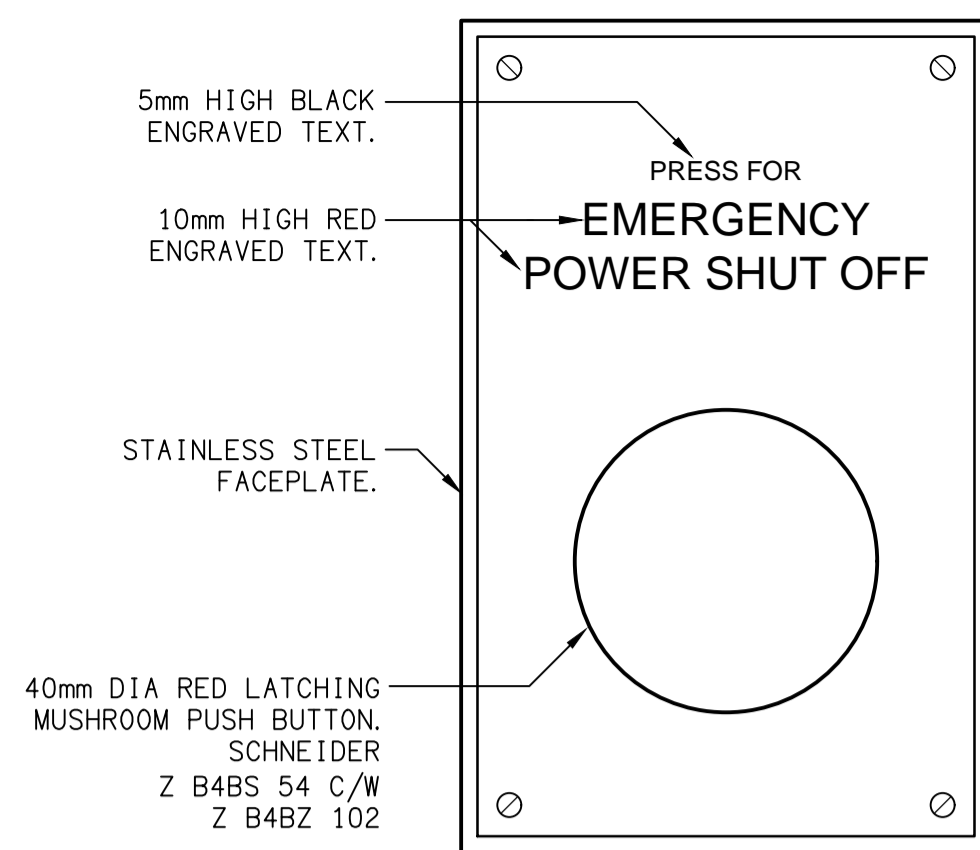




DETAIL
TYPICAL OUTLET MOUNTINGS
NOT TO SCALE

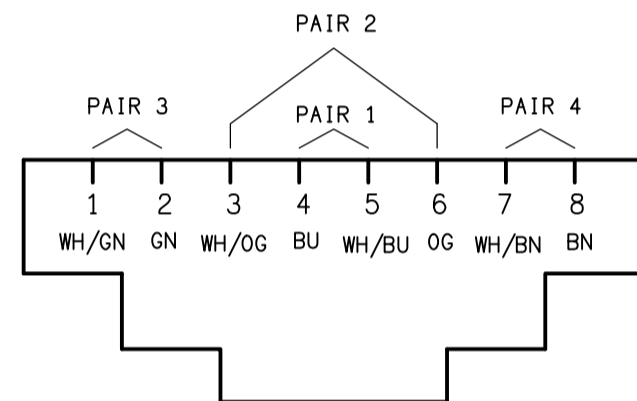


DETAIL
HAND DRYER CONNECTION
NOT TO SCALE

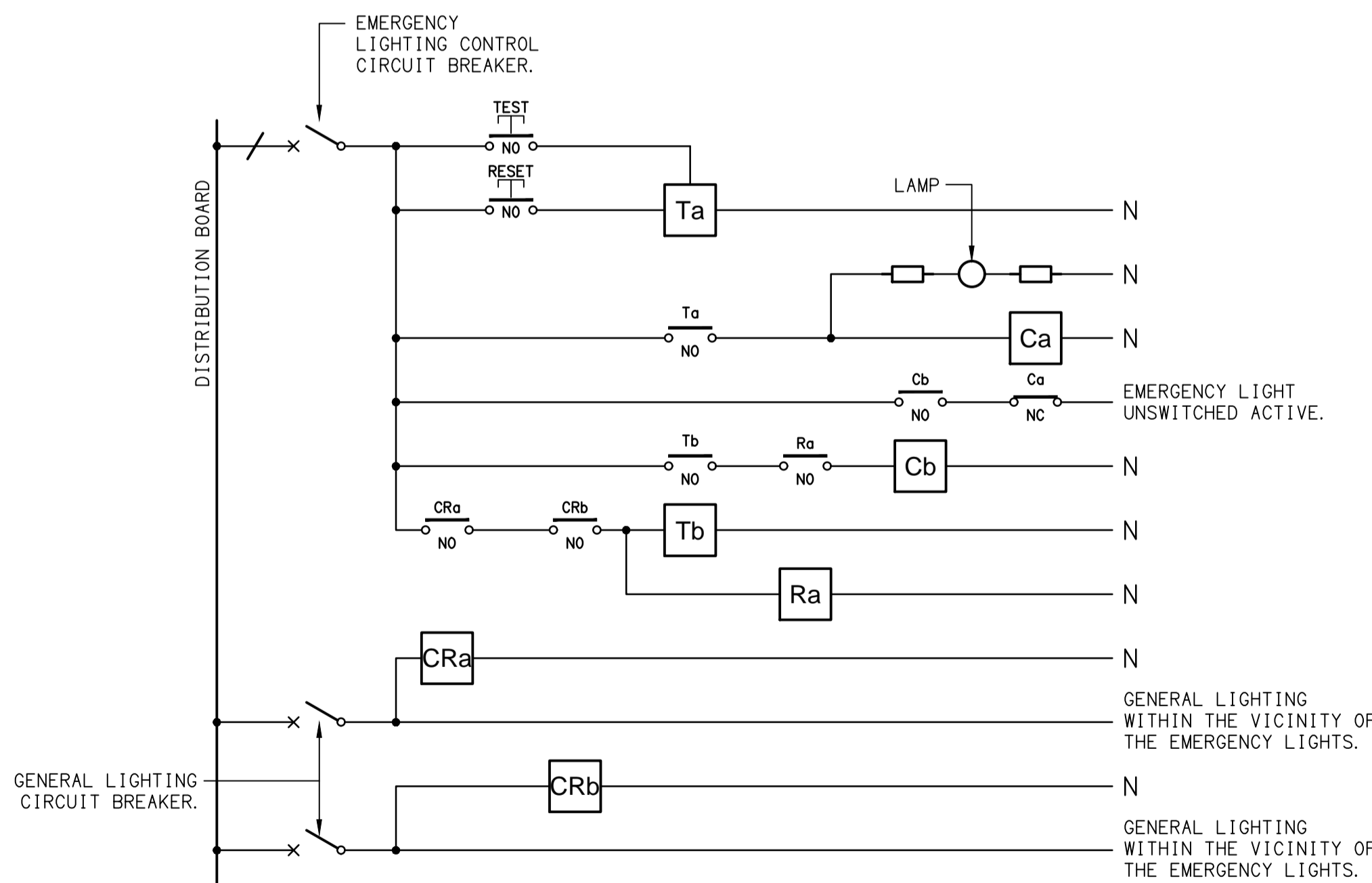


DETAIL
EMERGENCY POWER SHUT OFF (ESO)
NOT TO SCALE

- 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.



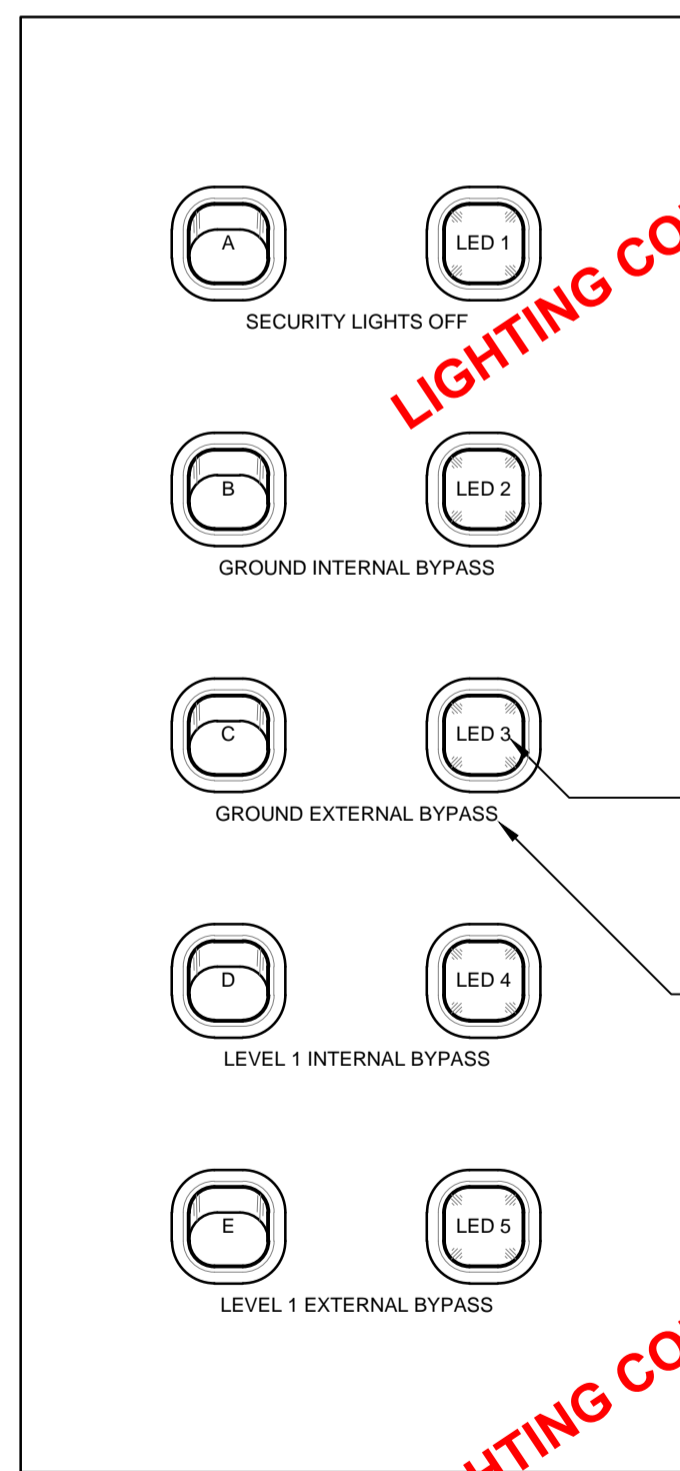
SCHEMATIC
RJ45 PINOUT CONFIGURATION
NOT TO SCALE



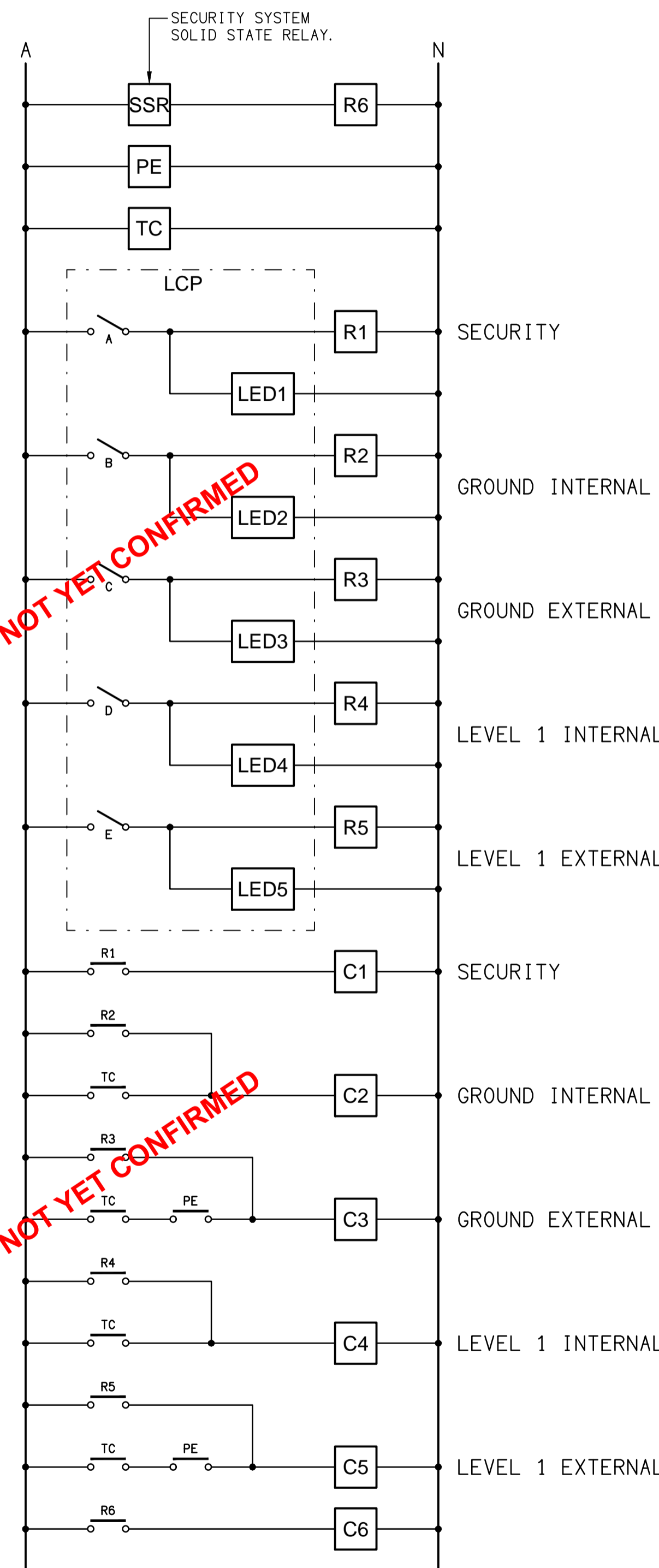
SCHEMATIC
EMERGENCY LIGHTING
NOT TO SCALE

NOTES

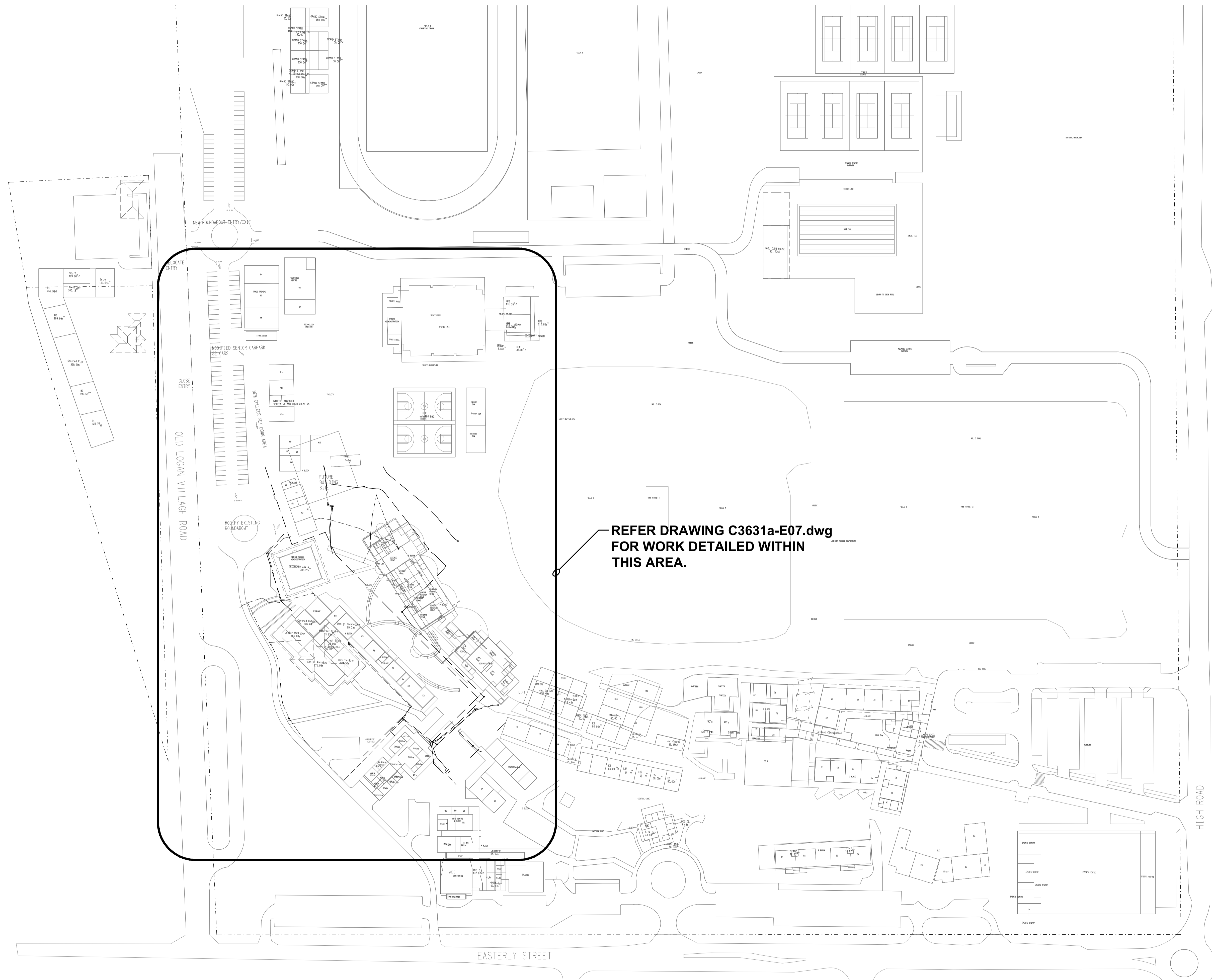
1. THE EMERGENCY LIGHT UNSWITCHED ACTIVE / GENERAL LIGHTING SWITCHED ACTIVE CIRCUIT ARRANGEMENT AND CONTROL IS TYPICAL FOR ALL CIRCUITS SUPPLYING EMERGENCY LIGHTS.
2. PROVIDE ADDITIONAL CONTROL RELAYS (CRx) CONFIGURED AS PER CRa AND CRb FOR ALL ADDITIONAL LIGHTING CIRCUITS THAT SUPPLY LIGHTS IN THE VICINITY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



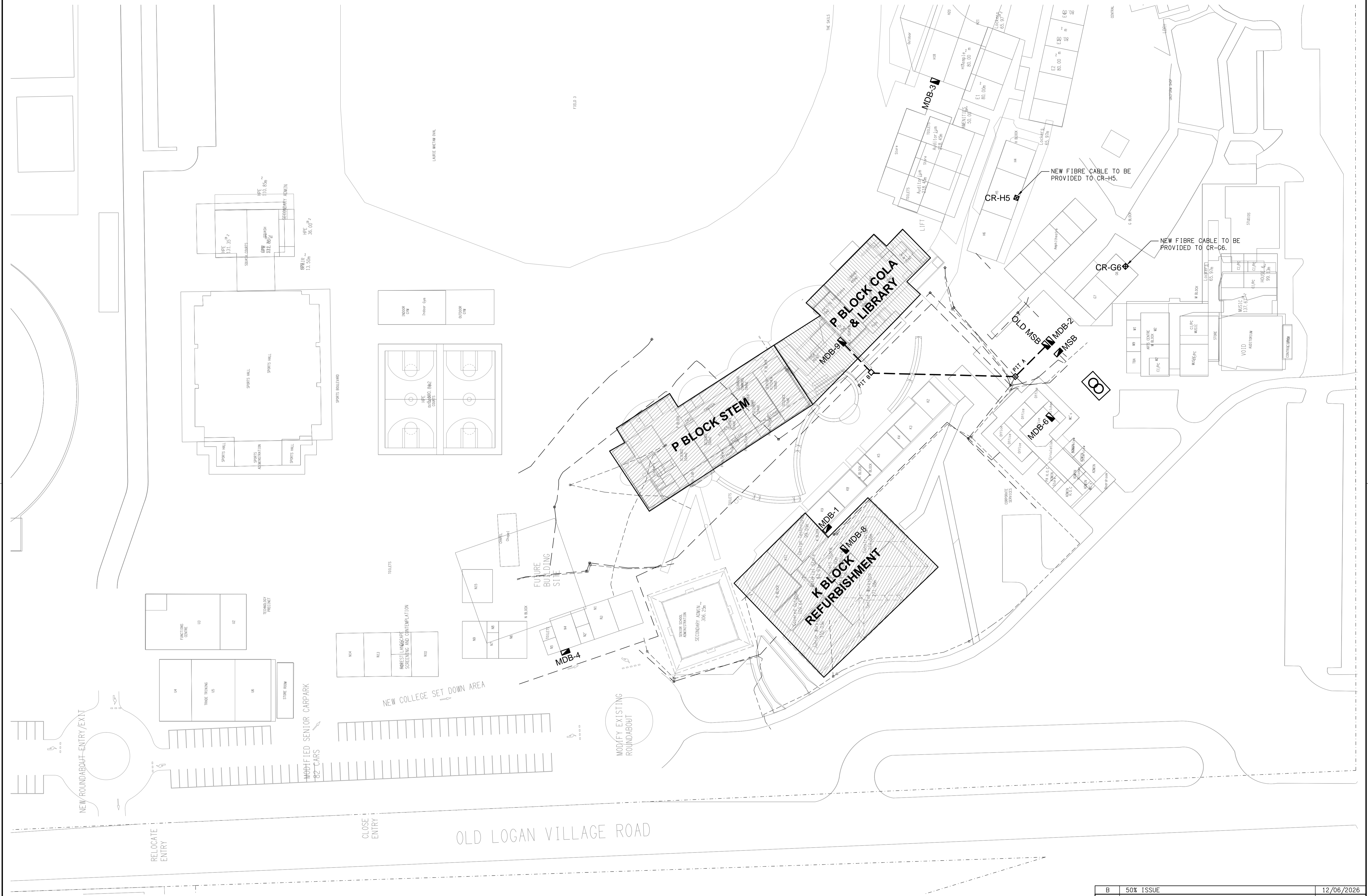
DETAIL
LIGHTING CONTROL PANEL (LCP) ELEVATION
NOT TO SCALE



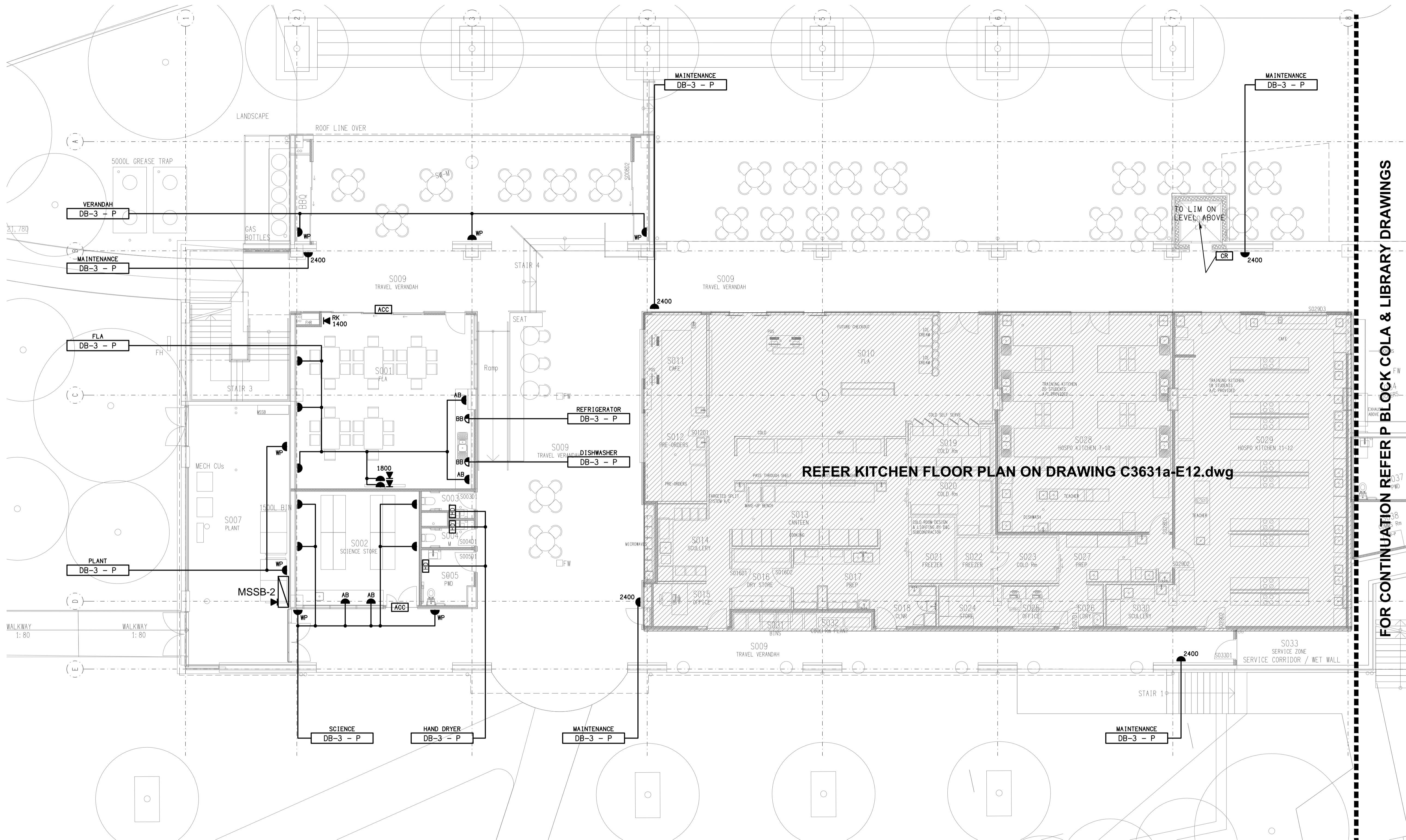
SCHEMATIC
LIGHTING CONTROL PANEL (LCP) CONTROL
NOT TO SCALE

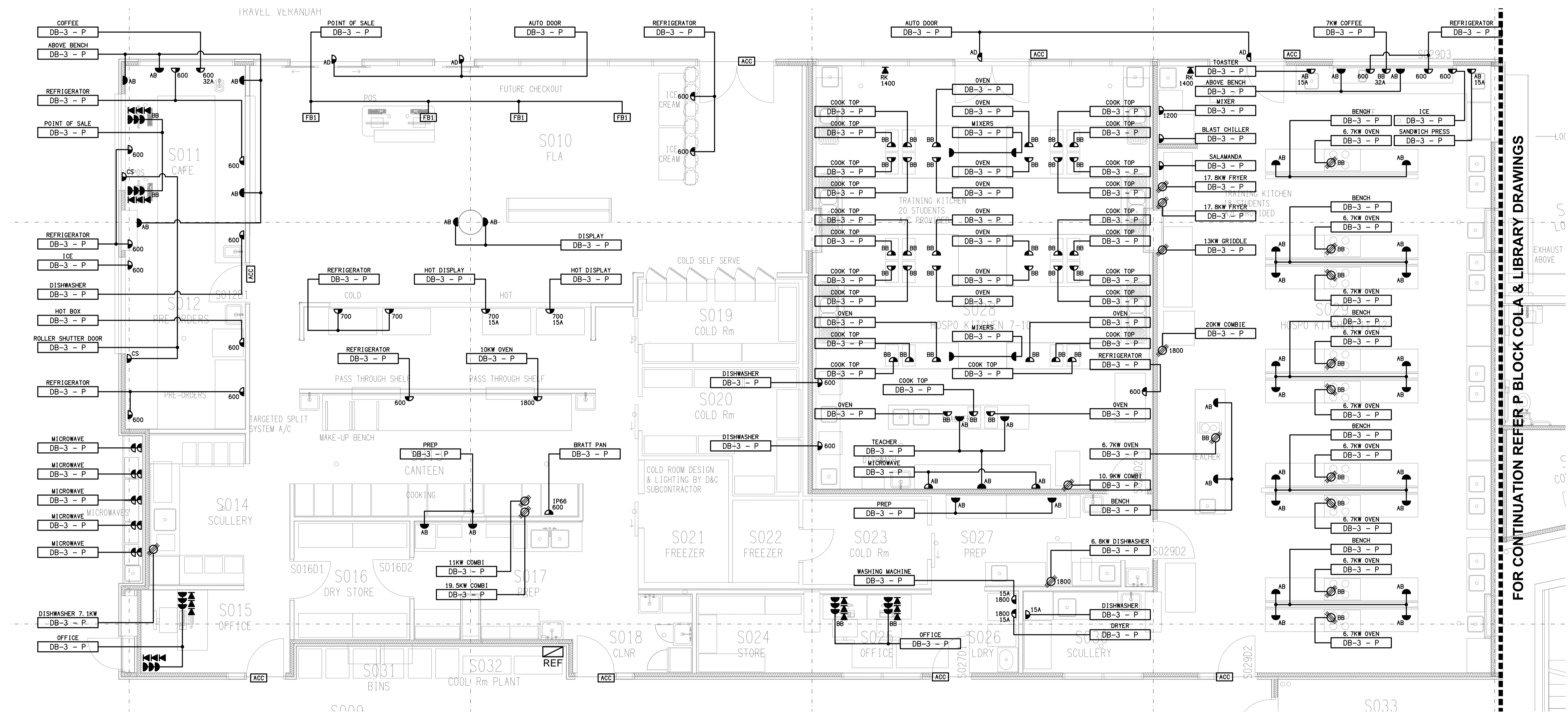


REFER DRAWING C3631a-E07.dwg
FOR WORK DETAILED WITHIN
THIS AREA.

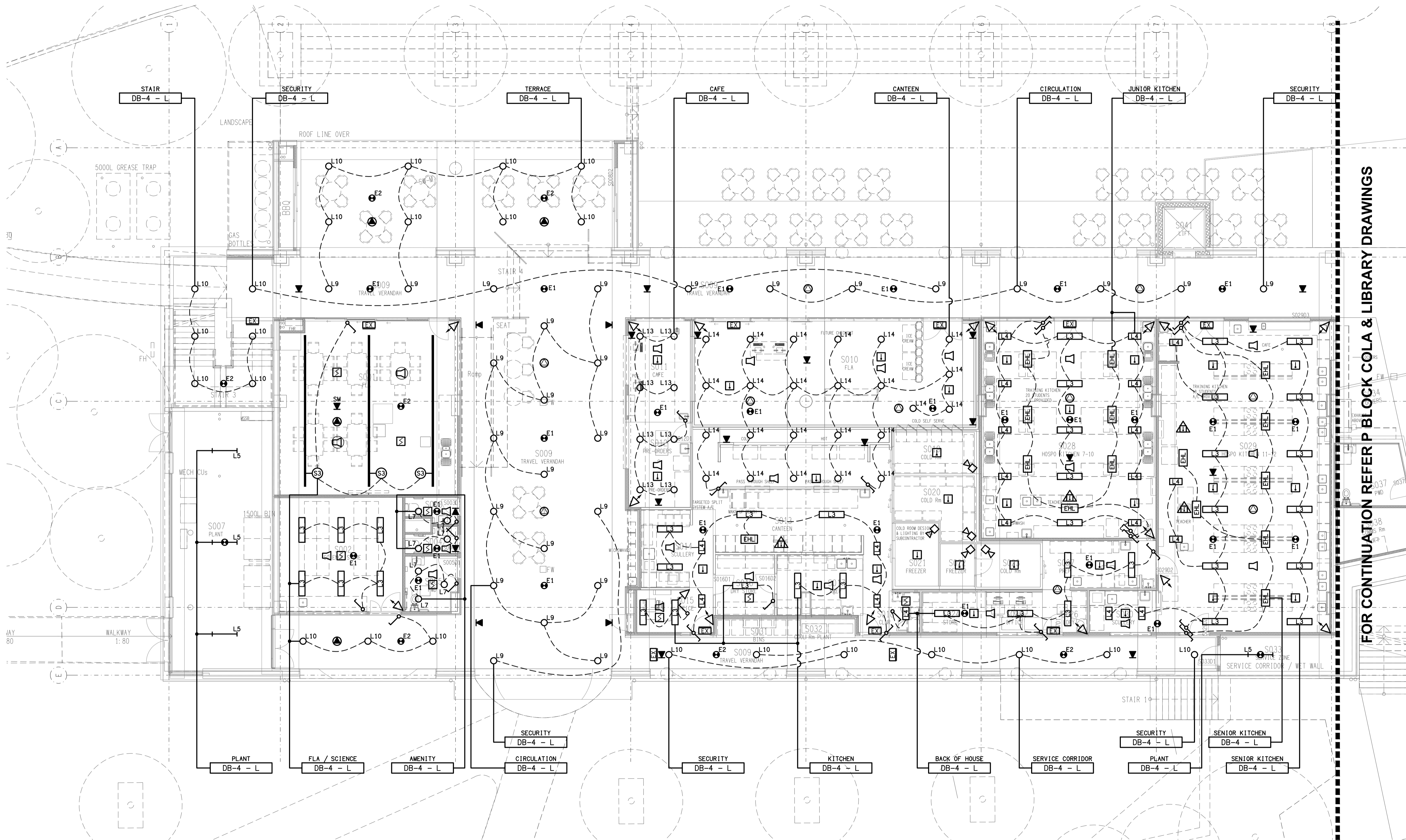


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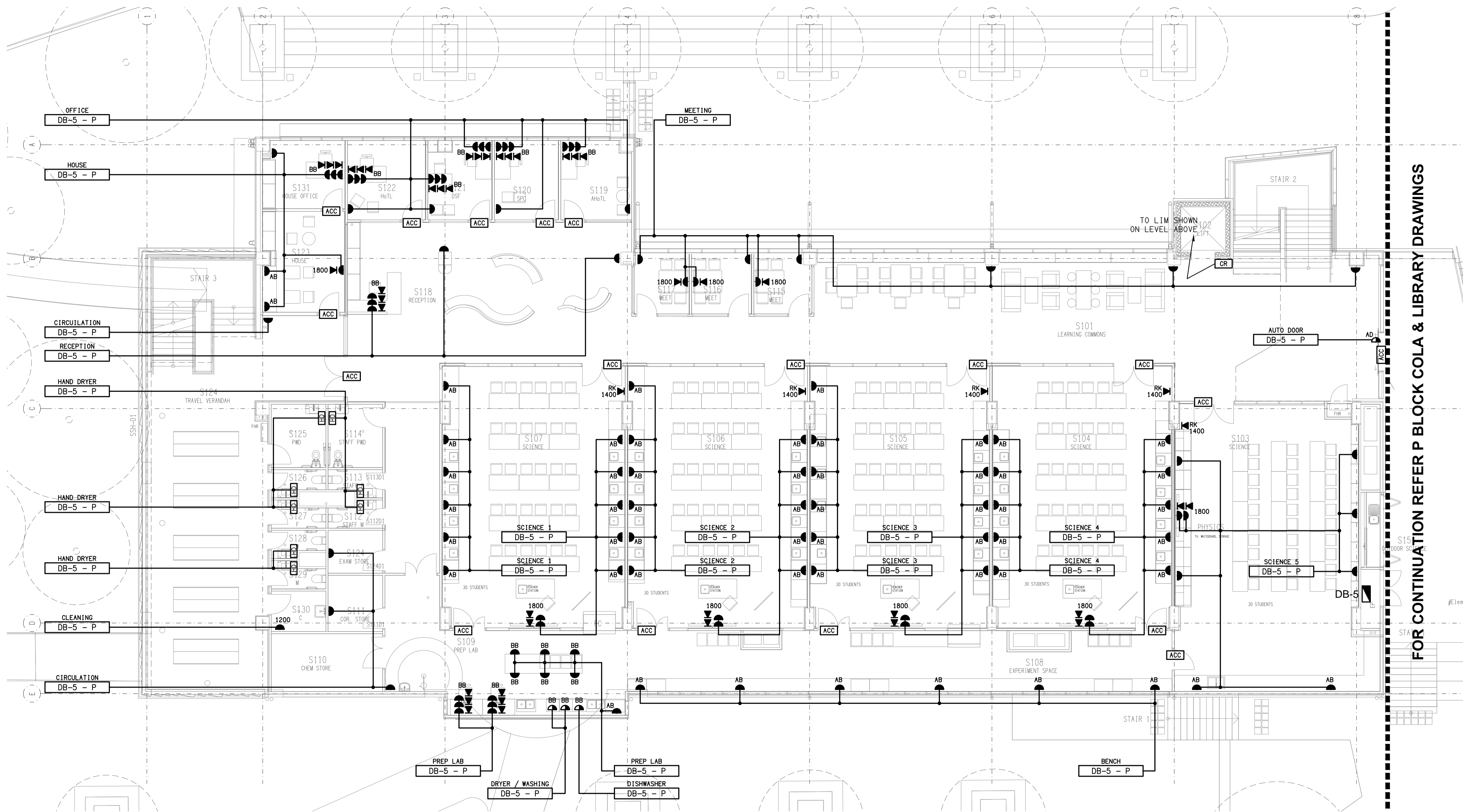
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PROJECT:
CANTERBURY COLLEGE SENIOR SCHOOL
TALNGAI PRECINCT

182 OLD LOGAN VILLAGE ROAD, WATERFORD

B	50% ISSUE	12/06/2026
REV:	DESCRIPTION:	DATE:

DRAWING: ELECTRICAL SERVICES INFINITY CENTRE (I BLOCK) LOWER GROUND REFLECTED CEILING PLAN	PROJECT NO: C3631a	DRAWING NO: E13	REVISION: B
SCALE: 1:100	AT A1		



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TALNGAI PRECINCT

182 OLD LOGAN VILLAGE ROAD, WATERFORD

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REV:	DESCRIPTION:	DATE:

DRAWING:
**ELECTRICAL SERVICES
INFINITY CENTRE (I BLOCK)
GROUND FLOOR PLAN**

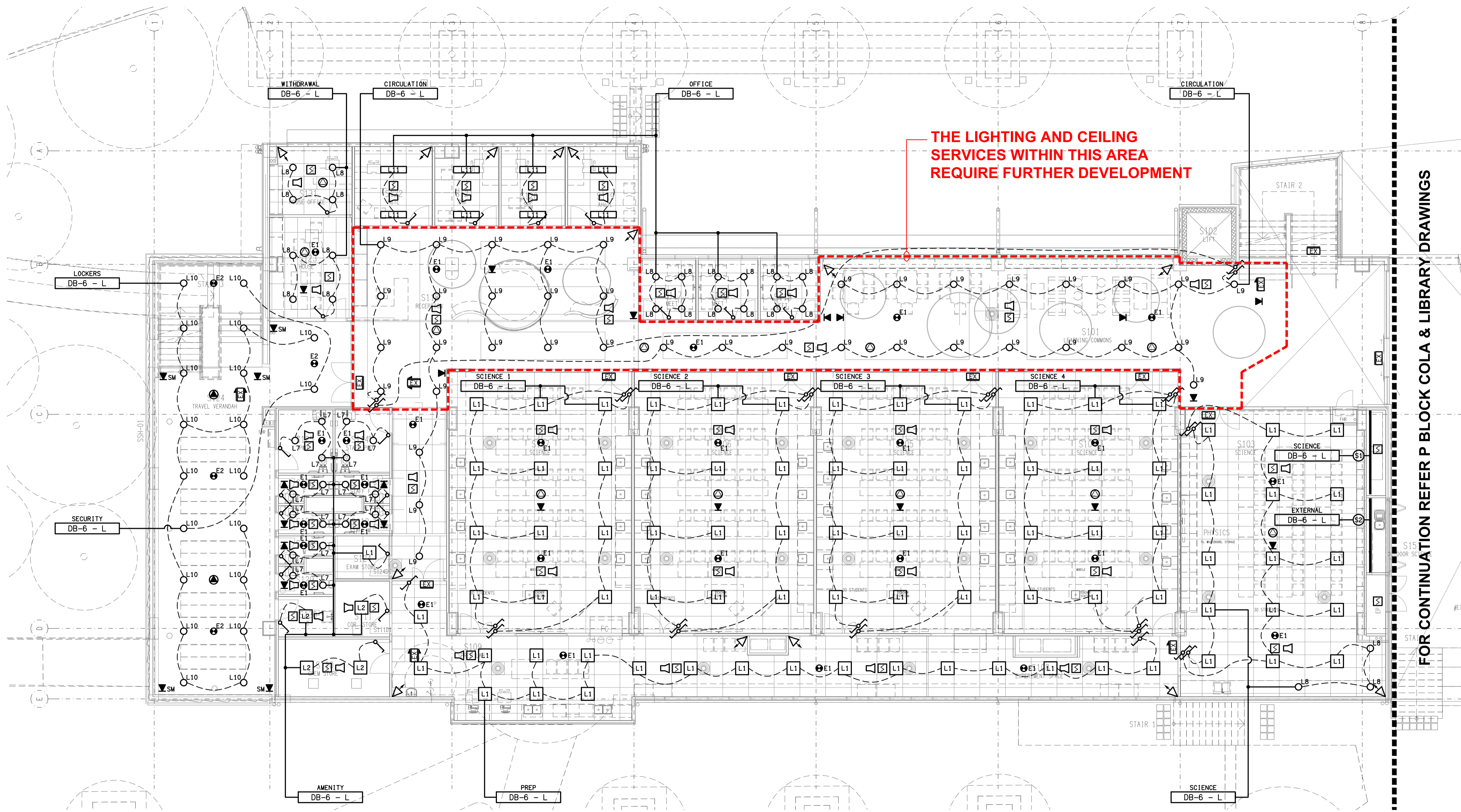
SCALE:
1:100

AT A1

PROJECT NO:
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DRAWING NO:
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REVISION:
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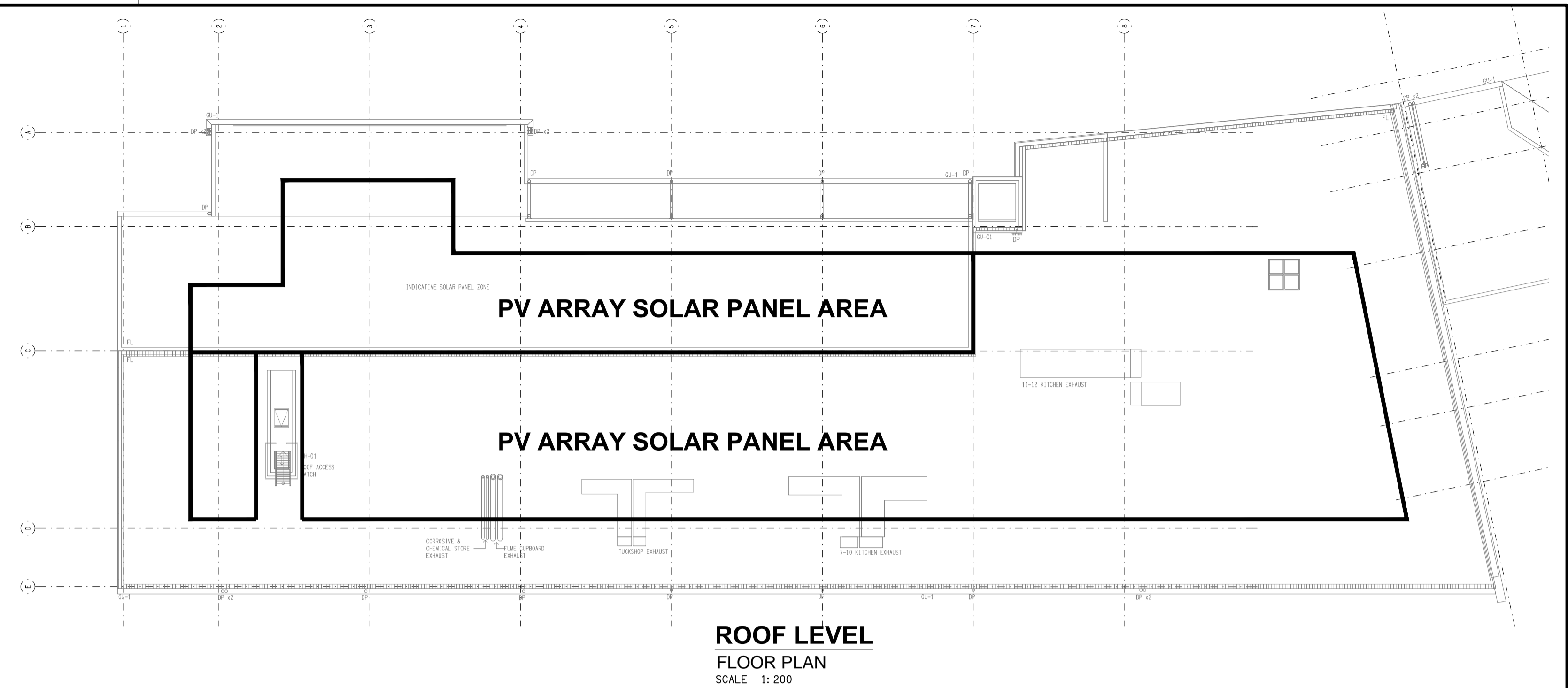
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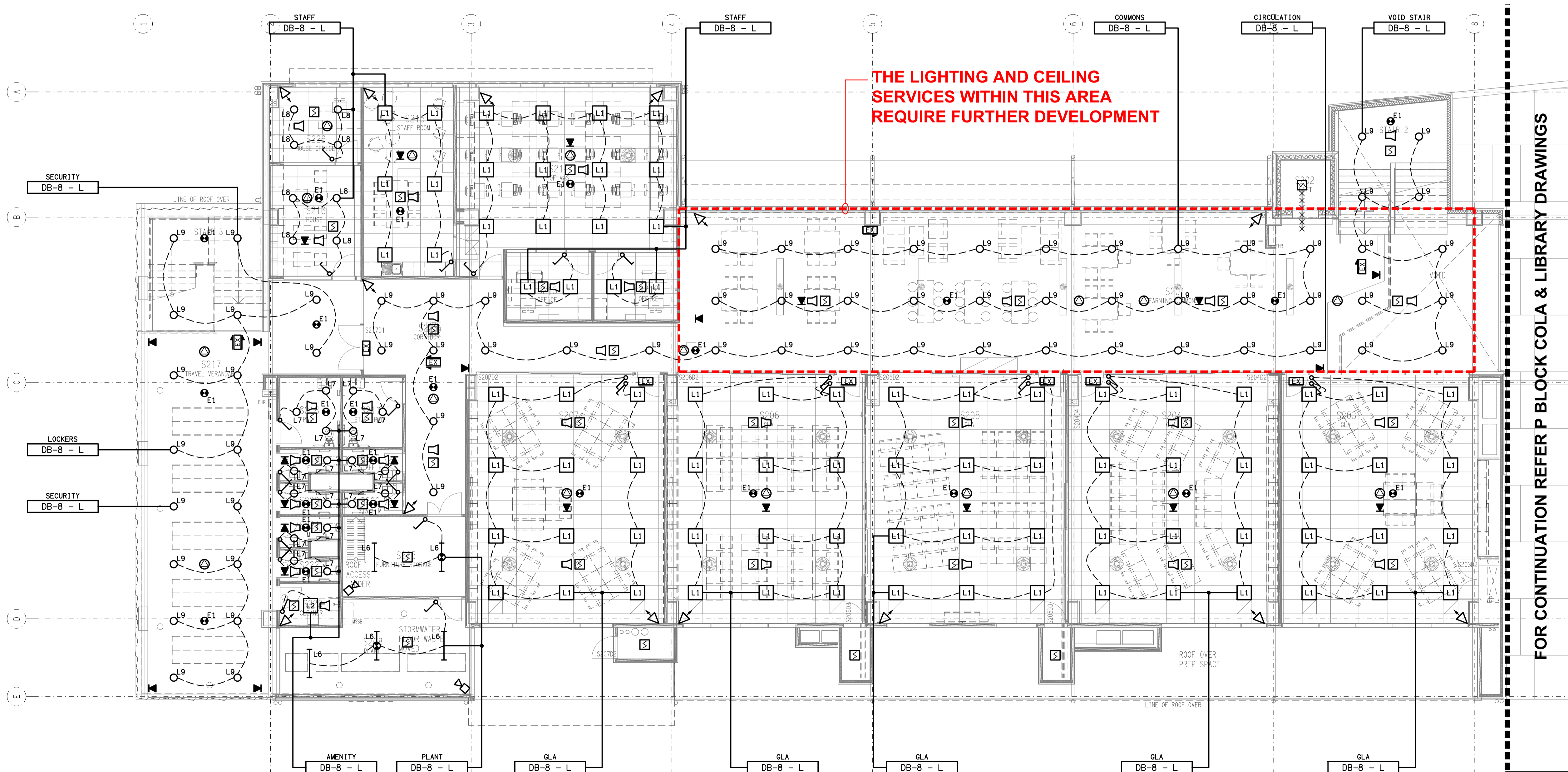
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REV.	DESCRIPTION:	DATE:
DRAWING:	ELECTRICAL SERVICES	
	INFINITY CENTRE (I BLOCK)	
	GROUND REFLECTED CEILING PLAN	
SCALE:	PROJECT NO:	DRAWING NO:
1:100	AT A1	C3631a E15
		B

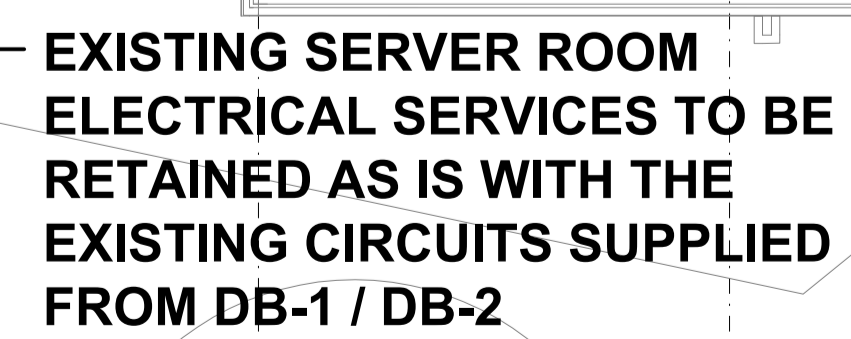



ROOF LEVEL
FLOOR PLAN
SCALE 1: 200

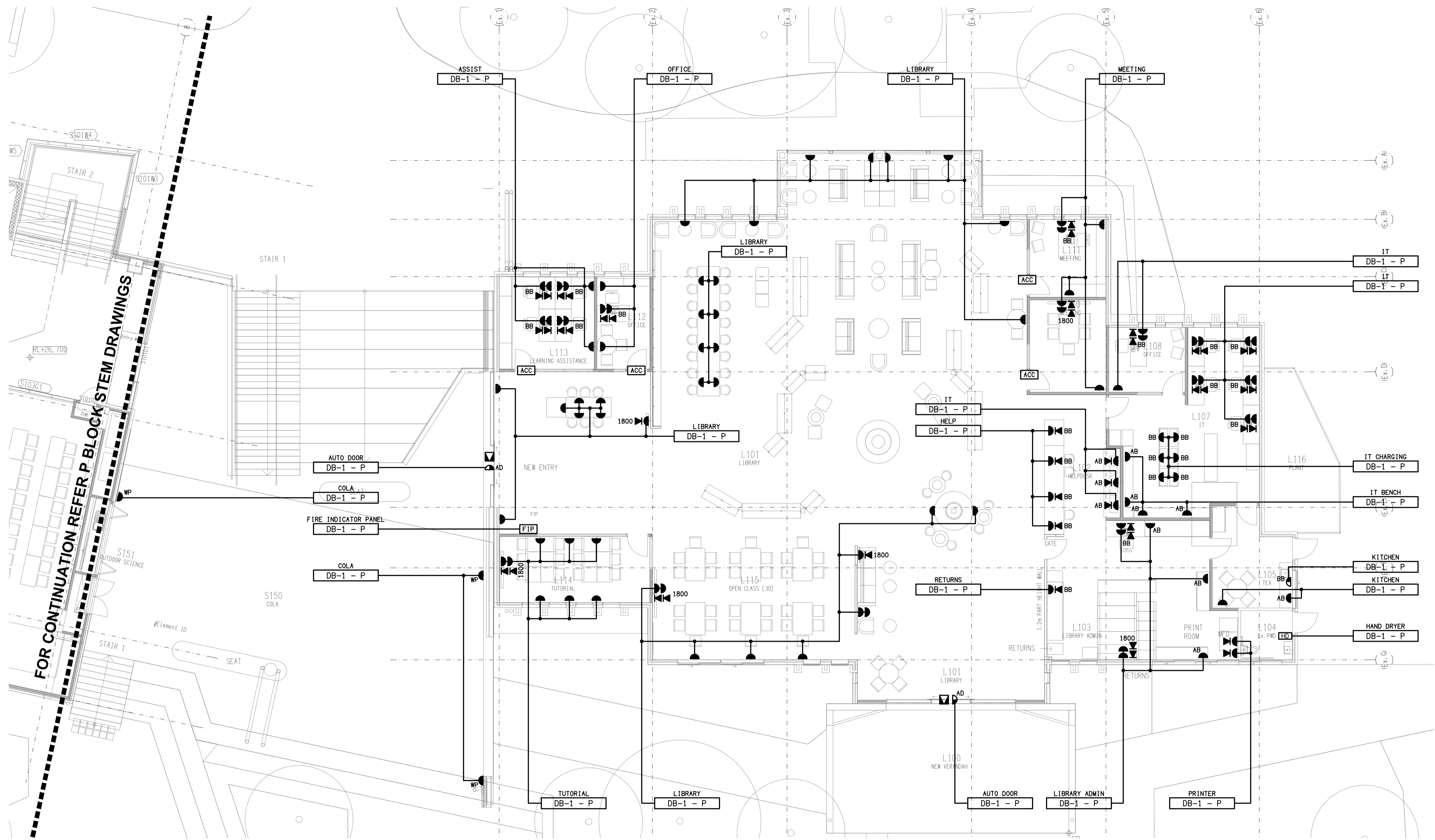


THE LIGHTING AND CEILING
SERVICES WITHIN THIS AREA
REQUIRE FURTHER DEVELOPMENT

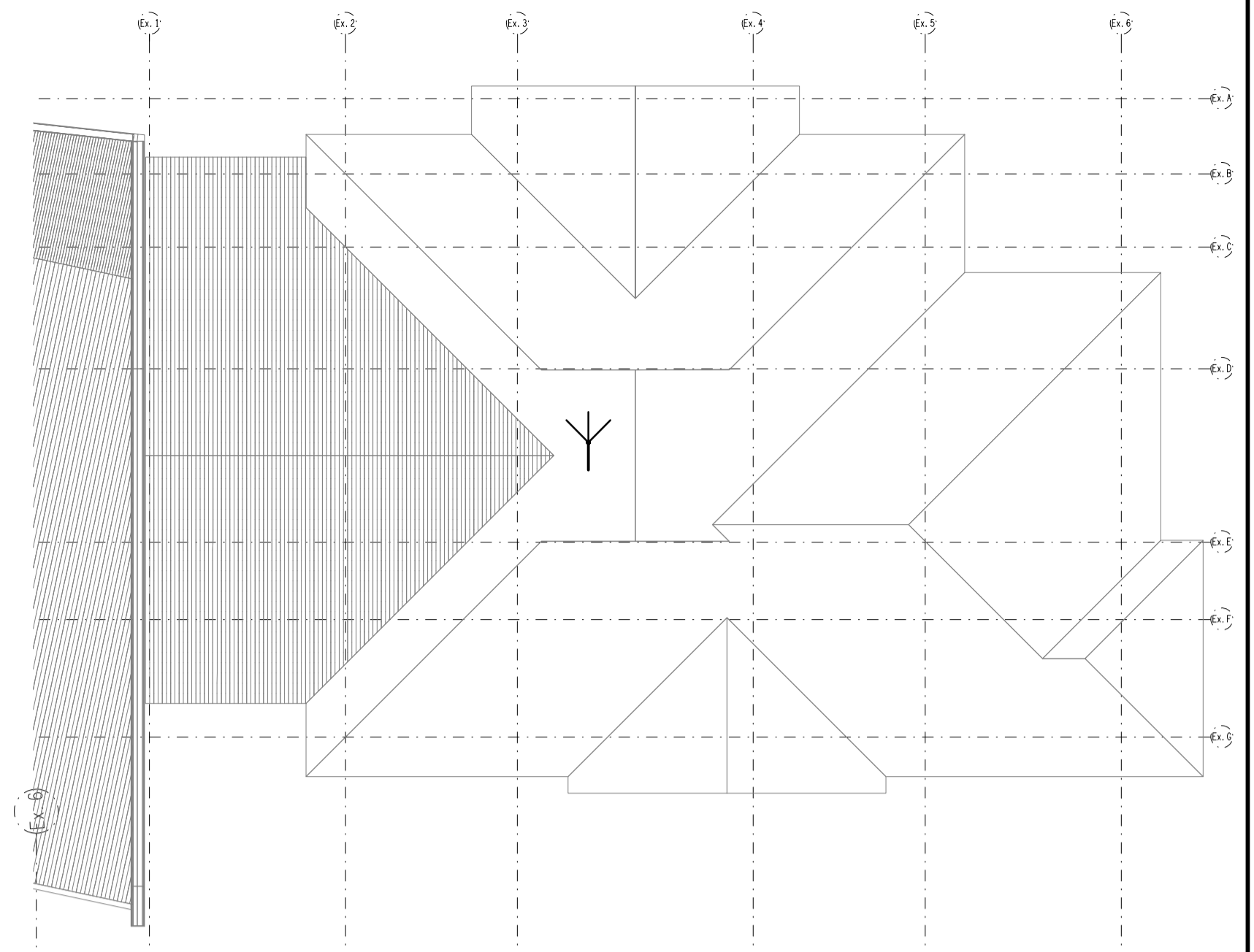
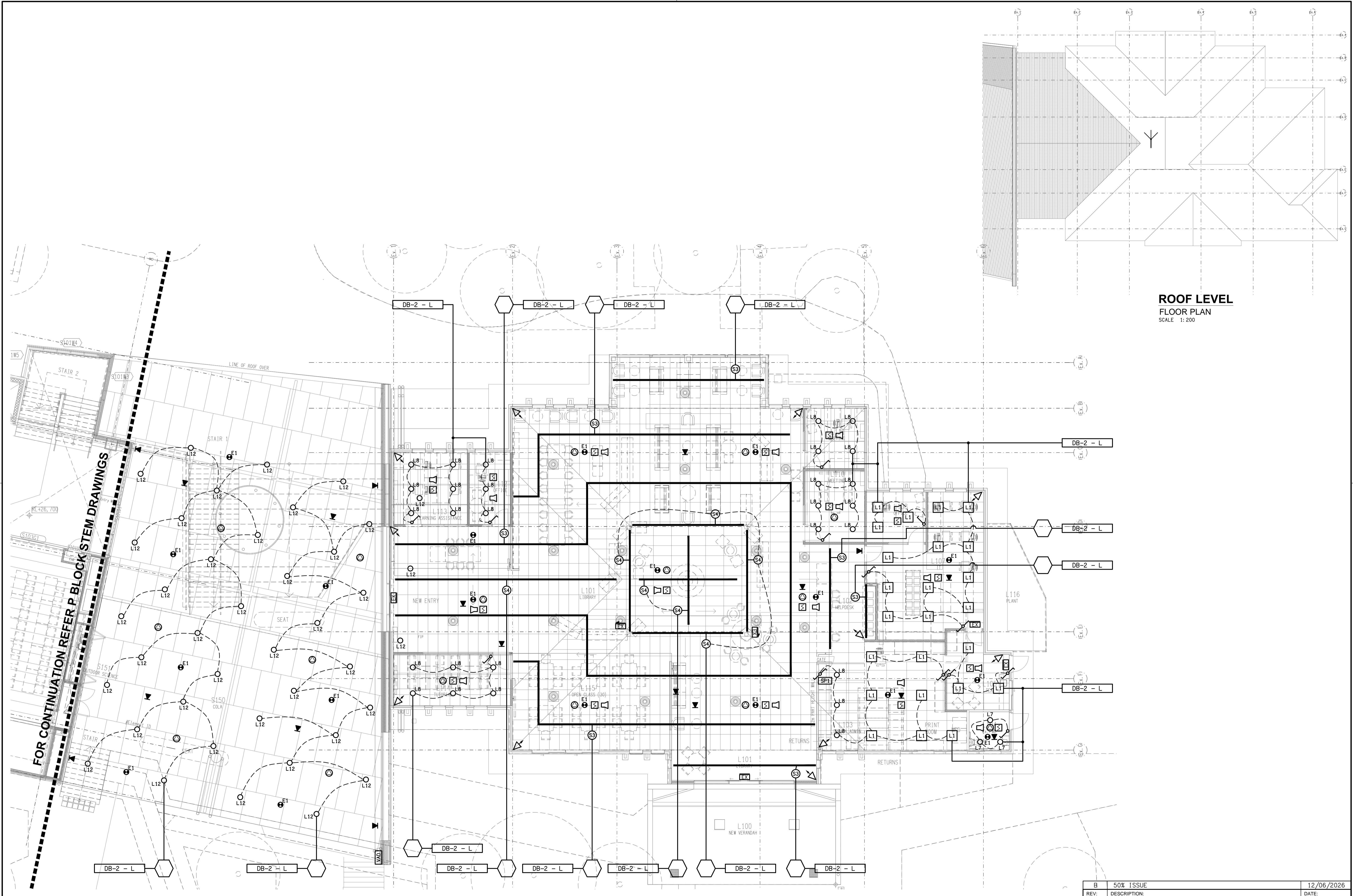
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PROJECT NO:	DRAWING NO:	REVISION:									
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ROOF LEVEL
FLOOR PLAN
SCALE 1:200

