



ELECTRICAL DESIGN GROUP

ELECTRICAL BUILDING SERVICES CONSULTANTS

P.O. Box 15, SHERWOOD Q. 4075

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C3531a - EAGERS 151 SANDGATE ROAD, ALBION

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ELECTRICAL SERVICES CONTRACT DOCUMENT SCHEDULE

REVISION A - 13 NOVEMBER 2025

ISSUING INFORMATION				DATE OF ISSUE							
	DAY	13									
	MONTH	11									
	YEAR	25									
	REASON FOR ISSUE	T									
A = APPROVAL C = CONSTRUCTION N = COORDINATION P = PRELIMINARY T = TENDER											

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ELECTRICAL EQUIPMENT SCHEDULE

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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	240W 4000K LED	SUSPENDED LINEAR IP66 HIGH BAR C/W INTEGRAL DRIVER	NA	RAPID LED R3126-2	A
L2	150W 4000K LED	SUSPENDED LINEAR IP66 HIGH BAR C/W INTEGRAL DRIVER	NA	RAPID LED R3126-1	A
L3	36W LED 4000K	SURFACE MOUNTED IP66 1200 LONG BATTEN C/W INTEGRAL DRIVER AND AN UNSWITCHED AS2293 NON MAINTAINED EMERGENCY PACK CONFIGURED TO ONLY OPERATE UPON MAINS FAILURE	LIGHT GREY	EQUAL TO GAMMA STORM 1558-CCT-36W	A
L4	3750 LUMEN 4000K LED	600 X 600 LAY IN FLAT PLATE LED FITTING C/W REMOTE DRIVER AND A PB RECESS KIT	WHITE TRIM	SAL LIGHTING S9784/606TC/DP2 + PB KIT	A
L5	2500 LUMEN 4000K LED	300 X 600 LAY IN FLAT PLATE LED FITTING C/W REMOTE DRIVER AND A PB RECESS KIT	WHITE TRIM	SAL LIGHTING S9784/306TC/DP2 + PB KIT	A
L6	12W 4000K LED	AMENITY RECESSED DOWNLIGHT C/W REMOTE DRIVER	WHITE	SAL LIGHTING ECOSTAR S9048TC	A
L7	100W 4000K LED	WALL MOUNTED LINEAR HIGH BAY FITTING C/W INTEGRAL DRIVER AND A LOCAL MANUAL SWITCH. LOCATE THE LOCAL SWITCH ADJACENT THE ASSOCIATED WORK BENCH	NA	RAPID LED R3121-100	A
L8	36W LED 4000K	SURFACE MOUNTED IP66 1200 LONG BATTEN C/W INTEGRAL DRIVER AND A MOVEMENT SENSOR	LIGHT GREY	EQUAL TO GAMMA STORM 1558-CCT-36W MS	A
L9	2 X 70W 4000K LED	9M POLE AND TWO CARPARK LIGHTS C/W INTEGRAL DRIVER ALL 240 VOLT CABLING TO THE POLES ARE TO BE RUN IN CONDUITS AT LEAST 50MM TO FACILITATE FUTURE POWER CABLING. ALL CONDUITS ARE TO HAVE A SPARE DRAW WIRE AND BE SHOWN ON THE AS CONSTRUCTED DOCUMENTS.	GALVANIZED	2 X RAPID LED R3240	A
L10	70W 4000K LED	9M POLE AND CARPARK LIGHT C/W INTEGRAL DRIVER ALL 240 VOLT CABLING TO THE POLES ARE TO BE RUN IN CONDUITS AT LEAST 50MM TO FACILITATE FUTURE POWER CABLING. ALL CONDUITS ARE TO HAVE A SPARE DRAW WIRE AND BE SHOWN ON THE AS CONSTRUCTED DOCUMENTS.	GALVANIZED	RAPID LED R3240	A
L11	52W 4000K LED	WALL MOUNTED CARPARK LIGHT C/W INTEGRAL DRIVER POSITION THE FITTING AS PER THE ELEVATION.	GALVANIZED	RAPID LED R3240	A
L12	36W LED 4000K	WALL MOUNTED IP66 1200 LONG BATTEN C/W INTEGRAL DRIVER	LIGHT GREY	EQUAL TO GAMMA STORM 1558-CCT-36W	A



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L13	120W 4000K LED	6M POLE AND CARPARK LIGHT C/W INTEGRAL DRIVER ALL 240 VOLT CABLING TO THE POLES ARE TO BE RUN IN CONDUITS AT LEAST 50MM TO FACILITATE FUTURE POWER CABLING. ALL CONDUITS ARE TO HAVE A SPARE DRAW WIRE AND BE SHOWN ON THE AS CONSTRUCTED DOCUMENTS.	GALVANIZED	RAPID LED R3240	A
L14	14.4W/M 4000K LED	LED STRIP WITHIN A SCREW FIXED EXTRUSION C/W DIFFUSER MOUNTED UNDER THE OVERHEAD CUPBOARD AGAINST THE SPLASH BACK. PROVIDE THE STRIP WITH REMOTE POWER SUPPLY LOCATED IN A CONCEALED ACCESSIBLE POSITION NOTED ON THE AS CONSTRUCTED DOCUMENTS.	NATURAL	RAPID LED R2334 PLUS ALUMINIUM EXTRUSION AND POWER SUPPLY	A
L15	36W LED 4000K	SURFACE MOUNTED IP66 1200 LONG BATTEN C/W INTEGRAL DRIVER	LIGHT GREY	EQUAL TO GAMMA STORM 1558-CCT- 36W	A
L16	240W 4000K LED	LINEAR IP66 HIGH BAR C/W INTEGRAL DALI DIMMABLE DRIVER PROVIDE THE FITTING WITH A RECESS KIT SUCH THAT IT APPEARS FLUSH WITH THE SUSPENDED CEILING	NA	RAPID LED R3126-2	A
L17	400W 4000K LED	LINEAR IP66 HIGH BAY C/W INTEGRAL DALI DIMMABLE DRIVER PROVIDE THE FITTING WITH A RECESS KIT SUCH THAT IT APPEARS FLUSH WITH THE SUSPENDED CEILING	NA	RAPID LED R3126-3	A
L18	10W/M 3000K LED	IP67 LED FLEX SCREW FIXED RECESSED ONTO THE FRONT FACIA AS PER THE ARCHITECTURAL DETAIL. PROVIDE THE STRIP WITH REMOTE POWER SUPPLIES AS REQUIRED LOCATE THE POWER SUPPLIES IN A CONCEALED ACCESSIBLE POSITION NOTED ON THE AS CONSTRUCTED DOCUMENTS. CONFIRM THE BEND PLANE (TOP OR SIDE) ON SITE WITH THE ARCHITECT.	WHITE	RAPID LED R2321 OR R2322 + POWER SUPPLY	A
L19	4000K 1000 LUMEN/M LED STRIP	3600 LONG ROD SUSPENDED TO 2700 AFFL, 50MM WIDE X 85MM HIGH EXTRUSION C/W INTEGRAL OPAL DIFFUSER DRIVER. PROVIDE THE FITTING WILL ALL NECESSARY ACCESSORIES TO COMPLETE THE INSTALLATION.	BLACK	MELEC ML-ALU-5085 + ML-VLCR14.4-NW5	A
L20	25W 4000K LED	RECESSED DOWNLIGHT C/W REMOTE DRIVER	WHITE	RAPID LED R1354 - 25W	A
L21	25W 4000K LED	SURFACE MOUNTED DOWNLIGHT C/W INTEGRAL DRIVER	WHITE	RAPID LED R1147-SM	A
L22	70W 4000K LED	WALL MOUNTED CARPARK LIGHT C/W INTEGRAL DRIVER POSITION THE FITTING AS PER THE ELEVATION.	GALVANIZED	RAPID LED R3240	A



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TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
L23	70W 4000K LED	POLE AND CARPARK LIGHT C/W INTEGRAL DRIVER PROVIDE THE POLE AS A REDUCED HEIGHT MOUNTED ON THE DECK SUCH THAT THE FITTING IN 9M ABOVE THE RAMP IT IS ILLUMINATING.	GALVANIZED	RAPID LED R3240	A
L24	20W LED 4000K	SURFACE MOUNTED IP66 600 LONG BATTEN C/W INTEGRAL DRIVER	LIGHT GREY	EQUAL TO GAMMA STORM 1557-CCT-20W	A
E1	LED	EMERGENCY LIGHT: RECESSED NON-MAINTAINED EMERGENCY LIGHT. AS2293 CLASSIFICATION C0-D40 - C90-D40.	WHITE	EQUAL TO CLEVERTRONICS LLIFE	A
E2	LED	EMERGENCY LIGHT: SURFACE MOUNTED NON-MAINTAINED EMERGENCY LIGHT. AS2293 CLASSIFICATION C0-D63 - C90-D63.	WHITE	EQUAL TO CLEVERTRONICS LLIFE-SM	A
EX (BOH)	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 LCFLED	A
EX (FOH)	LED	FRONT OF HOUSE 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. AS2293 CLASSIFICATION C0-D8 - C90-E3.2.	WHITE	EQUAL TO CLEVERTRONICS LUBPRO-SM	A
EX WP	LED	EXIT LIGHT: MAINTAINED WEATHER PROOF 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 LWELED	A
EMERGENCY PACK		LIGHT FITTINGS THAT ARE DESIGNATED AS BEING PROVIDED WITH AN EMERGENCY PACK ARE TO BE PROVIDED WITH AN INTEGRAL AS2293 EMERGENCY PACK. THE FITTINGS ARE TO BE NON MAINTAINED WITH ALL LAMPS SWITCHED AS PER THE LIGHTING CONTROL FOR THAT SPACE UNLESS NOTED OTHERWISE. REFER TO THE SPECIFICATION FOR FURTHER DETAILS OF THE CONFIGURATION AND SWITCHING OF EMERGENCY LIGHTS.			A
CHANNEL x		CONTROL CHANNEL WITH A NUMERICAL REFERENCE. REFER TO THE POWER AND LIGHTING CONTROL SCHEMATIC / SCHEDULE			A



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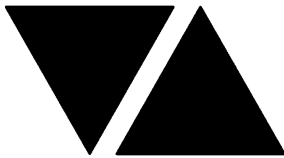
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TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
PROXIMITY DETECTOR SWITCH (PD)		ADJUSTABLE FLUSH RECESSED 360 DEGREE TRIPLE PYRO PIR PRESENCE DETECTOR TO OPERATE THE ASSOCIATED LIGHTS FOR A PRE-SET AMOUNT OF TIME. ADJUST THE TIME AND SENSITIVITY ON SITE AS DIRECTED BY THE ENGINEER.	WHITE	CLIPSAL. SELECTION BY THE CONTRACTOR. SUBMIT DETAILS OF THE PROXIMITY DETECTOR SWITCH FOR APPROVAL PRIOR TO ORDERING	A
FIRE INDICATOR PANEL (FIP)		AS1670.1 COMPLIANT WHITE FIRE INDICATOR PANEL CONTAINING THE FDCIE AND EWCIE.			A
RECESSED FIRE ALARM SPEAKER		AS1670.1 RECESSED FIRE ALARM SPEAKER C/W WHITE GRILL			A
FIRE ALARM HORN		AS1670.1 SURFACE MOUNTED IP66 FIRE ALARM HORN			A
VISUAL ALARM DEVICE (VAD)		AS1670.1 SURFACE MOUNTED VISUAL ALARM DEVICE			A
FIRE ALARM SYSTEM DOOR INTERFACE / HOLDER		INTERFACE THE FIRE ALARM SYSTEM TO THE DOOR CONTROL SYSTEM SUCH THAT THE DOOR IS UNLOCKED VIA A FAIL SAFE SIGNAL UPON ALARM.			A
FAN (F1)		6100 DIA CEILING FAN C/W 2.5HP MOTOR AND CEILING MOUNTING SYSTEM CONTROL THE FAN VIA A WIRED CONTROLLER LOCATED WITHIN THE ASSOCIATED WORKSHOP CONTROL OFFICE.	SILVER	BIG ASS FANS BIPFX4 20 PLUS STANDARD WIRED CONTROLLER	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 UNLESS IN A WORKSHOP AREA THEN BLACK	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 UNLESS IN A WORKSHOP AREA THEN BLACK	CLIPSAL C2000 SERIES	A
WEATHERPROOF LIGHT SWITCH (WP)		IP56 ONE-WAY / TWO-WAY AS NOTED ON DRAWING LIGHT SWITCH C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNTED AT 1100mm AFFL UNLESS NOTED OTHERWISE.	WHITE	CLIPSAL "56 SERIES"	A
DOOR SWITCH (DS)		ADJUSTABLE FLUSH RECESSED HEAVY 10 AMP DUTY DOOR SWITCH MOUNTED IN THE HEAD OF THE DOOR TO OPERATE THE ROOM LIGHTS. SUBMIT DETAILS OF THE DOOR SWITCH AND THE MOUNTING ARRANGEMENT FOR APPROVAL			A
LIGHTING CONTROL SWITCH PANEL (SP)		6-BUTTON PROGRAMMABLE SWITCH PANEL C/W CENTRAL LCD DISPLAY MOUNTED AT 1000mm AFFL UNLESS NOTED OTHERWISE. REFER TO THE LIGHTING CONTROL SCHEDULE	ALUMINIUM	DYNALITE ANTUMBRA DISPLAY	A



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HAND DRYER CONNECTION (HD)		SINGLE POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND FOR THE HAND DRYER MOUNT THE GPO AS PER THE ARCHITECTURAL DETAIL	WHITE	CLIPSAL C2000 SERIES 30USM	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 IN A WORKSHOP AREA THEN BLACK	CLIPSAL C2000 SERIES UNLESS IN A KITCHEN OR BAR THEN STAINLESS STEEL	A
SINGLE POWER OUTLET FOR THE AUTO DOOR (AD)		SINGLE 10 AMP POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNTED WITHIN THE AUTO DOOR MULLION	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 UNLESS IN A WORKSHOP AREA THEN BLACK	CLIPSAL C2000 SERIES UNLESS IN A KITCHEN OR BAR THEN STAINLESS STEEL	A
HOIST DROPPER OUTLET (H)		DOUBLE POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNT AT 1000 AFFL ON THE HOIST SUPPORT. SUPPLY THE OUTLET FROM ABOVE	BLACK	CLIPSAL C2000 SERIES	A
WORK BENCH OUTLET (WB)		DOUBLE POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNT 200 ABOVE THE WORK BENCH. SUPPLY THE OUTLET FROM ABOVE	BLACK	CLIPSAL C2000 SERIES	A
IP56 SINGLE POWER OUTLET		SINGLE POWER OUTLET IP56 MOUNT AT 300mm AFFL U.N.O. RATING 10A U.N.O.	GREY	CLIPSAL 56 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
LIGHT POLE WEATHERPROOF POWER OUTLET (LP)		IP54 LIGHT POLE MOUNTED DOUBLE POWER OUTLET C/W COVER FLAP OVER SOCKET. MOUNT AT MINIMUM 1100mm AFFL U.N.O. RATING 10A U.N.O.	-	CLIPSAL WSCF227F	A
SINGLE 10A POWER OUTLET SUSPENDED (SUS)		SINGLE 10A POWER OUTLET SUSPENDED TO 1600 AFFL UNLESS NOTED OTHERWISE VIA A 3MM STAINLESS STEEL WIRE ROPE.	WHITE	CLIPSAL SS15	A
SINGLE 15A POWER OUTLET SUSPENDED (SUS)		SINGLE 15A POWER OUTLET SUSPENDED TO 2200 AFFL UNLESS NOTED OTHERWISE VIA A 3MM STAINLESS STEEL WIRE ROPE.	WHITE	CLIPSAL "56 SERIES" 56SPO315	A
SIGNAGE CONNECTION		COORDINATE THE LOCATION AND CONNECTION WITH THE SIGN CONTRACTOR ENSURING THE GPO / ISOLATORS ARE PROVIDED WITH APPROPRIATE WEATHER PROTECTION AND ARE CONCEALED FROM VIEW.			A

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FLOOR BOX TYPE 1 (FB1)		INSITU FLUSH FLOOR BOX C/W A DOUBLE GPOS+ FACILITY FOR A COMMUNICATIONS OUTLETS FACEPLATE . PROVIDE A 32 DIA CONDUIT C/W A SPARE DRAW WIRE FROM THE REAR OF THE COMMUNICATIONS FACEPLATE TO THE CEILING SPACE ABOVE THE COMMUNICATIONS RACK CR-B. PROVIDE THE GPOS AS PER THE STANDARD DESCRIPTIONS.	STAINLESS STEEL	ECD FB2SHD	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
DB-1		PROVIDE THE DB AS AN INTERNAL DISTRIBUTION BOARD AS PER THE NOTES AND WITH A THREE PHASE 250A LOAD BREAK NON AUTO MAIN SWITCH, 3 PHASE 250 AMP VERTICAL DIN STYLE CHASSIS INCLUDING A 48 POLE LIGHTING CHASSIS, 84 POLE POWER CHASSIS, TWO SPARE 600 WIDE DIN RAILS, AN AS2293 TESTING FACILITY, SURGE PROTECTION AND A ENERGY MONITORING SYSTEM AS PER J9D3 OF THE NCC BCA 2022. PROVIDE A SHOP DRAWING FOR APPROVAL.			A
DB-2		PROVIDE THE DB AS AN INTERNAL DISTRIBUTION BOARD AS PER THE NOTES AND WITH A THREE PHASE 250A LOAD BREAK NON AUTO MAIN SWITCH, 3 PHASE 250 AMP VERTICAL DIN STYLE CHASSIS INCLUDING A 48 POLE LIGHTING CHASSIS, 84 POLE POWER CHASSIS, TWO SPARE 600 WIDE DIN RAILS, AN AS2293 TESTING FACILITY, SURGE PROTECTION AND A ENERGY MONITORING SYSTEM AS PER J9D3 OF THE NCC BCA 2022. PROVIDE A SHOP DRAWING FOR APPROVAL.			A
DB-3		PROVIDE THE DB AS AN INTERNAL DISTRIBUTION BOARD AS PER THE NOTES AND WITH A THREE PHASE 250A LOAD BREAK NON AUTO MAIN SWITCH, 3 PHASE 250 AMP VERTICAL DIN STYLE CHASSIS INCLUDING A 48 POLE LIGHTING CHASSIS, 84 POLE POWER CHASSIS, TWO SPARE 600 WIDE DIN RAILS, AN AS2293 TESTING FACILITY, SURGE PROTECTION AND A ENERGY MONITORING SYSTEM AS PER J9D3 OF THE NCC BCA 2022. PROVIDE A SHOP DRAWING FOR APPROVAL.			A
DB-4		PROVIDE THE DB AS AN INTERNAL DISTRIBUTION BOARD AS PER THE NOTES AND WITH A THREE PHASE 250A LOAD BREAK NON AUTO MAIN SWITCH, 3 PHASE 250 AMP VERTICAL DIN STYLE CHASSIS INCLUDING A 48 POLE LIGHTING CHASSIS, 84 POLE POWER CHASSIS, TWO SPARE 600 WIDE DIN RAILS, AN AS2293 TESTING FACILITY, SURGE PROTECTION AND A ENERGY MONITORING SYSTEM AS PER J9D3 OF THE NCC BCA 2022. PROVIDE A SHOP DRAWING FOR APPROVAL.			A
DB-5		PROVIDE THE DB AS AN INTERNAL DISTRIBUTION BOARD AS PER THE NOTES AND WITH A THREE PHASE 250A LOAD BREAK NON AUTO MAIN SWITCH, 3 PHASE 250 AMP VERTICAL DIN STYLE CHASSIS INCLUDING A 48 POLE LIGHTING CHASSIS, 84 POLE POWER CHASSIS, TWO SPARE 600 WIDE DIN RAILS, AN AS2293 TESTING FACILITY, SURGE PROTECTION AND A ENERGY MONITORING SYSTEM AS PER J9D3 OF THE NCC BCA 2022. PROVIDE A SHOP DRAWING FOR APPROVAL.			A

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ELECTRICAL DESIGN GROUP

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ELECTRICAL EQUIPMENT SCHEDULE

REVISION A - 13 NOVEMBER 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
DB-6		PROVIDE THE DB AS AN INTERNAL DISTRIBUTION BOARD AS PER THE NOTES AND WITH A THREE PHASE 250A LOAD BREAK NON AUTO MAIN SWITCH, 3 PHASE 250 AMP VERTICAL DIN STYLE CHASSIS INCLUDING A 48 POLE LIGHTING CHASSIS, 84 POLE POWER CHASSIS, TWO SPARE 600 WIDE DIN RAILS, AN AS2293 TESTING FACILITY, SURGE PROTECTION AND A ENERGY MONITORING SYSTEM AS PER J9D3 OF THE NCC BCA 2022. PROVIDE A SHOP DRAWING FOR APPROVAL.			A
DB-7		PROVIDE THE DB AS AN INTERNAL DISTRIBUTION BOARD AS PER THE NOTES AND WITH A THREE PHASE 250A LOAD BREAK NON AUTO MAIN SWITCH, 3 PHASE 250 AMP VERTICAL DIN STYLE CHASSIS INCLUDING A 48 POLE LIGHTING CHASSIS, 84 POLE POWER CHASSIS, TWO SPARE 600 WIDE DIN RAILS, AN AS2293 TESTING FACILITY, SURGE PROTECTION AND A ENERGY MONITORING SYSTEM AS PER J9D3 OF THE NCC BCA 2022. PROVIDE A SHOP DRAWING FOR APPROVAL.			A
DB-8		PROVIDE THE DB AS AN INTERNAL DISTRIBUTION BOARD AS PER THE NOTES AND WITH A THREE PHASE 250A LOAD BREAK NON AUTO MAIN SWITCH, 3 PHASE 250 AMP VERTICAL DIN STYLE CHASSIS INCLUDING A 48 POLE LIGHTING CHASSIS, 84 POLE POWER CHASSIS, TWO SPARE 600 WIDE DIN RAILS, AN AS2293 TESTING FACILITY, SURGE PROTECTION AND A ENERGY MONITORING SYSTEM AS PER J9D3 OF THE NCC BCA 2022. PROVIDE A SHOP DRAWING FOR APPROVAL.			A
DB-9		PROVIDE THE DB AS AN EXTERNAL DISTRIBUTION BOARD AS PER THE NOTES AND WITH A THREE PHASE 250A LOAD BREAK NON AUTO MAIN SWITCH, 3 PHASE 250 AMP VERTICAL DIN STYLE CHASSIS INCLUDING A 48 POLE LIGHTING CHASSIS, 84 POLE POWER CHASSIS, TWO SPARE 600 WIDE DIN RAILS, AN AS2293 TESTING FACILITY, SURGE PROTECTION AND A ENERGY MONITORING SYSTEM AS PER J9D3 OF THE NCC BCA 2022. PROVIDE A SHOP DRAWING FOR APPROVAL.			A
MSSB-1		MECHANICAL SERVICES SWITCHBOARD PROVIDED BY THE MECHANICAL SUB CONTRACTOR. COORDINATE THE SUBMAIN CONNECTION WITH THE MECHANICAL SUB CONTRACTOR ON SITE.			A
MSSB-2		MECHANICAL SERVICES SWITCHBOARD PROVIDED BY THE MECHANICAL SUB CONTRACTOR. COORDINATE THE SUBMAIN CONNECTION WITH THE MECHANICAL SUB CONTRACTOR ON SITE.			A
MSSB-3		MECHANICAL SERVICES SWITCHBOARD PROVIDED BY THE MECHANICAL SUB CONTRACTOR. COORDINATE THE SUBMAIN CONNECTION WITH THE MECHANICAL SUB CONTRACTOR ON SITE.			A
MDB		MAIN DISTRIBUTION BOARD (MDB) AS PER THE POWER SCHEMATIC AND THE NOTES. PROVIDE A SHOP DRAWING OF THE SWITCHBOARD FOR APPROVAL.			A
MSB		MAIN SWITCHBOARD AS PER THE POWER SCHEMATIC AND THE NOTES. PROVIDE A SHOP DRAWING OF THE MAIN SWITCHBOARD FOR APPROVAL. PROVIDE A COPY OF THE ENERGEX APPROVAL OF THE SWITCHBOARD SHOP DRAWINGS. AS PART OF THE STAGE 1 SUPPLY OF THE MSB IT IS TO CONTAIN THE SWITCHGEAR REQUIRED FOR STAGE TWO SERVICES.			A
METER PANEL (MP)		WALL MOUNTED EXTERNAL METER PANEL (MP) AS PER THE POWER SCHEMATIC AND THE NOTES. PROVIDE A SHOP DRAWING OF THE SWITCHBOARD FOR APPROVAL. PROVIDE A COPY OF THE ENERGEX APPROVAL OF THE METER PANEL SHOP DRAWINGS			A
SOLAR DB		SOLAR DISTRIBUTION BOARD AS PER THE POWER SCHEMATIC AND THE NOTES. PROVIDE A SHOP DRAWING OF THE SWITCHBOARD FOR APPROVAL. AS PART OF THE STAGE 1 SUPPLY OF THE SOLAR DB IT IS TO CONTAIN THE SWITCHGEAR REQUIRED FOR STAGE TWO SERVICES.			A
INV-1		3 PHASE PV INVERTER C/W 5 YEAR REPLACEMENT WARRANTY CONNECTED TO THE PV PANELS. REFER TO THE NOTES FOR ADDITIONAL REQUIREMENTS. PROVIDE DETAILS OF THE PV SYSTEM AND DESIGN FOR APPROVAL.			A
INV-2		3 PHASE PV INVERTER C/W 5 YEAR REPLACEMENT WARRANTY CONNECTED TO THE PV PANELS. REFER TO THE NOTES FOR ADDITIONAL REQUIREMENTS. PROVIDE DETAILS OF THE PV SYSTEM AND DESIGN FOR APPROVAL.			A

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INV-3		3 PHASE PV INVERTER C/W 5 YEAR REPLACEMENT WARRANTY CONNECTED TO THE PV PANELS. REFER TO THE NOTES FOR ADDITIONAL REQUIREMENTS. PROVIDE DETAILS OF THE PV SYSTEM AND DESIGN FOR APPROVAL.			A
PV PANELS		ROOF MOUNTED PV PANELS C/W GALVANIZED MOUNTING BRACKET. PROVIDE PV PANELS WITH A 10 YEAR PRODUCT WARRANTY AND A 25 YEAR PANEL PERFORMANCE WARRANTY. REFER TO THE NOTES FOR ADDITIONAL REQUIREMENTS.			A
EV CHARGER 1 (EV1)		OCULAR DC ATLAS 120KW OC-120HY4 EV CHARGER C/W DEMAND MANAGEMENT			A
EV CHARGER 2 (EV2)		OCULAR IQ ROWER 22KW IOCAP06C-22 EV CHARGER C/W DEMAND MANAGEMENT			A
ELECTRIC VEHICLE CHARGING ISOLATION SWITCH (CIS)		ELECTRIC VEHICLE CHARGING ISOLATION SWITCH PUSH BUTTON WIRED TO THE EV CHARGER SUPPLY CIRCUIT BREAKER SHUNT TRIP TO ISOLATE THE POWER TO THE ELECTRIC VEHICLE CHARGERS. MOUNTED AT 1800mm AFFL UNLESS NOTED OTHERWISE. PROVIDE COLOURED ENGRAVED TEXT AS PER THE CIS ELEVATION.	WHITE	CLIPSAL C2000 SERIES 30USM	A
CABLE TRAY / LADDER		GALVANIZED CABLE TRAY / LADDER SIZED AS INDICATED. COMPLIANT WITH AS1170.4			A
COMMUNICATIONS RACK (CR-A)		FREE STANDING 42 RU MINIMUM 800 DEEP COMMUNICATIONS RACK CR-A PROVIDE A SHOP DRAWING OF THE RACK INCLUDING THE ARRANGEMENT OF EQUIPMENT PROVIDED WITHIN IT AS PART OF THE CONTRACT FOR APPROVAL. PROVIDE THE RACK WITH THE REQUIRED FOBOTS, CAT 6 PATCH PANELS, CABLE MANAGEMENT AS PER THE NOTES AND SCHEMATIC. PROVIDE THE RACK WITH CASTERS.	BLACK	REDBACK A4.8842D	A
COMMUNICATIONS RACK (CR-B)		FREE STANDING 42 RU MINIMUM 800 DEEP COMMUNICATIONS RACK CR-B FOR USE BY THE SECURITY CONTRACTOR. PROVIDE THE RACK WITH CASTERS.	BLACK	REDBACK A4.8842D	A
COMMUNICATIONS RACK (CR-C)		FREE STANDING 42 RU MINIMUM 800 DEEP COMMUNICATIONS RACK CR-B FOR USE BY THE SECURITY CONTRACTOR. PROVIDE THE RACK WITH CASTERS.	BLACK	REDBACK A4.8842D	A
COMMUNICATIONS RACK (CR-D)		FREE STANDING 42 RU MINIMUM 800 DEEP COMMUNICATIONS RACK CR-D FOR USE BY THE AUDIO CONTRACTOR PROVIDE THE RACK WITH CASTERS.	BLACK	REDBACK A4.8842D	A



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COMMUNICATIONS RACK (CR-1)		FREE STANDING 42 RU MINIMUM 800 DEEP COMMUNICATIONS RACK CR-1 PROVIDE A SHOP DRAWING OF THE RACK INCLUDING THE ARRANGEMENT OF EQUIPMENT PROVIDED WITHIN IT AS PART OF THE CONTRACT FOR APPROVAL. PROVIDE THE RACK WITH THE REQUIRED FOBOT, CAT 6 PATCH PANELS, CABLE MANAGEMENT AS PER THE NOTES AND SCHEMATIC. PROVIDE THE RACK WITH CASTERS.	BLACK	REDBACK A4.8842D	A
COMMUNICATIONS RACK (CR-2)		FREE STANDING 42 RU MINIMUM 800 DEEP COMMUNICATIONS RACK CR-2 PROVIDE A SHOP DRAWING OF THE RACK INCLUDING THE ARRANGEMENT OF EQUIPMENT PROVIDED WITHIN IT AS PART OF THE CONTRACT FOR APPROVAL. PROVIDE THE RACK WITH THE REQUIRED FOBOT, CAT 6 PATCH PANELS, CABLE MANAGEMENT AS PER THE NOTES AND SCHEMATIC. PROVIDE THE RACK WITH CASTERS.	BLACK	REDBACK A4.8842D	A
COMMUNICATIONS RACK (CR-3)		FREE STANDING 42 RU MINIMUM 800 DEEP COMMUNICATIONS RACK CR-3 PROVIDE A SHOP DRAWING OF THE RACK INCLUDING THE ARRANGEMENT OF EQUIPMENT PROVIDED WITHIN IT AS PART OF THE CONTRACT FOR APPROVAL. PROVIDE THE RACK WITH THE REQUIRED FOBOT, CAT 6 PATCH PANELS, CABLE MANAGEMENT AS PER THE NOTES AND SCHEMATIC. PROVIDE THE RACK WITH CASTERS.	BLACK	REDBACK A4.8842D	A
COMMUNICATIONS RACK (CR-4)		FREE STANDING 42 RU MINIMUM 800 DEEP COMMUNICATIONS RACK CR-3 PROVIDE A SHOP DRAWING OF THE RACK INCLUDING THE ARRANGEMENT OF EQUIPMENT PROVIDED WITHIN IT AS PART OF THE CONTRACT FOR APPROVAL. PROVIDE THE RACK WITH THE REQUIRED FOBOT, CAT 6 PATCH PANELS, CABLE MANAGEMENT AS PER THE NOTES AND SCHEMATIC. PROVIDE THE RACK WITH CASTERS.	BLACK	REDBACK A4.8842D	A
COMMUNICATIONS RACK (CR-5)		FREE STANDING 42 RU MINIMUM 800 DEEP COMMUNICATIONS RACK CR-5 PROVIDE A SHOP DRAWING OF THE RACK INCLUDING THE ARRANGEMENT OF EQUIPMENT PROVIDED WITHIN IT AS PART OF THE CONTRACT FOR APPROVAL. PROVIDE THE RACK WITH THE REQUIRED FOBOT, CAT 6 PATCH PANELS, CABLE MANAGEMENT AS PER THE NOTES AND SCHEMATIC. PROVIDE THE RACK WITH CASTERS.	BLACK	REDBACK A4.8842D	A



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TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
COMMUNICATIONS RACK (CR-8)		FREE STANDING 42 RU MINIMUM 800 DEEP COMMUNICATIONS RACK CR-8 PROVIDE A SHOP DRAWING OF THE RACK INCLUDING THE ARRANGEMENT OF EQUIPMENT PROVIDED WITHIN IT AS PART OF THE CONTRACT FOR APPROVAL. PROVIDE THE RACK WITH THE REQUIRED FOBOT, CAT 6 PATCH PANELS, CABLE MANAGEMENT AS PER THE NOTES AND SCHEMATIC. PROVIDE THE RACK WITH CASTERS.	BLACK	REDBACK A4.8842D	A
COMMUNICATIONS OUTLET		RJ45 CAT-6 COMMUNICATIONS OUTLET, CABLED BACK TO CAT 6 PATCH PANELS IN THE ASSOCIATED RACK 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 ULTRA THIN PATCH LEAD OF THE SAME COLOUR AS THE COMMUNICATIONS UTP CABLING.	WHITE	CLIPSAL "C2000 SERIES"	A
NBN PREMISE CONNECTION DEVICE (PCD)		NBN COMPLIANT PREMISES CONNECTION DEVICE AS PER THE PCD DETAIL TO BE CONNECTED TO THE NTD VIA AN NBN COMPLIANT DROP CONDUIT. CONNECT THE PCD TO THE TELSTRA PIT VIA AN NBN COMPLIANT LEAD-IN CONDUIT.			A
NBN NETWORK TERMINATION UNIT (NTD)		NBN COMPLIANT NETWORK TERMINATION UNIT TO BE PROVIDED IN ACCORDANCE WITH THE NBN REQUIREMENTS			A








LEGEND


-  ELECTRICAL SERVICES SWITCHBOARD.
-  SWITCHBOARD / CONTROL PANEL NOT PROVIDED AS PART OF THE ELECTRICAL SUBCONTRACT.
-  ELECTRICAL CABLE TRAY / LADDER AS NOTED.
- INV


 PV SOLAR INVERTER, TYPE AS NOTED.
- PV


 PV SOLAR PANELS.
- EVx


 EV CHARGER, TYPE AS NOTED.
- CIS


 ELECTRIC VEHICLE CHARGING ISOLATION SWITCH.
-  SINGLE POWER OUTLET.
-  DOUBLE POWER OUTLET.
-  SPECIAL PURPOSE POWER OUTLET.
-  SINGLE PHASE ISOLATOR.
-  THREE PHASE ISOLATOR.
-  SIGN CONNECTION.
- PIT x






 ELECTRICAL PIT, TYPE AS NOTED.
- FBx


 ELECTRICAL FLOOR BOX, TYPE AS NOTED.
- HD

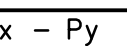


 HAND DRYER CONNECTION.
- CS


 LIGHTING DOOR SWITCH.
- PD



 LIGHTING PRESENCE DETECTOR SWITCH.
- SP




 LIGHTING CONTROL SWITCH PANEL.
-  ONE-WAY LIGHT SWITCH.
-  TWO-WAY LIGHT SWITCH.
-  CIRCUIT LINE.
-  SWITCH LINE.
- DB-x - Py


 POWER CIRCUIT DESIGNATION. DENOTES DB AND CIRCUIT.
- xx

 LIGHTING CONTROL CHANNEL REFERENCE.
-  ELECTRICAL EQUIPMENT AS NOTED.
-  RJ45 COMMUNICATIONS OUTLET.
- NTD



 NBN NETWORK TERMINATION DEVICE.
- PCD


 NBN PREMISES CONNECTION DEVICE.
-  FIRE EVACUATION SPEAKER.
- FTP


 FIRE INDICATOR PANEL.
-  FIRE DOOR INTERFACE.
-  FIRE ALARM HORN.
- VAD


 FIRE VISUAL ALARM DEVICE.


LEGEND


-  REFER TO DETAIL NOTED FOR THE AREA SHOWN HATCHED. ADDITIONAL OUTLETS & FITTINGS MAY BE SHOWN ON DETAIL.
-  AREA DESIGNATED TO HAVE CURRENT BRAND MANUAL REQUIREMENTS.
- F1

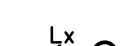
 F1: CEILING FAN.
- E1


 E1: GENERAL RECESSED LED EMERGENCY LIGHT.
- E2


 E2: GENERAL SURFACE LED EMERGENCY LIGHT.
- EX


 EX: EMERGENCY LED EXIT LIGHT.
- WP EX

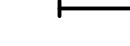
 EX WP: WEATHERPROOF EMERGENCY LED EXIT LIGHT.
- Lx


 Lx: LIGHT FITTING C/W NON-MAINTAINED EMERGENCY BATTERY PACK. TYPE AS NOTED.
- L1


 L1: SUSPENDED LINEAR IP66 HIGH BAY FITTING.
- L2


 L2: SUSPENDED LINEAR IP66 HIGH BAY FITTING.
- L3


 L3: SURFACE MOUNTED IP66 1200 LONG BATTEN C/W EMERGENCY PACK.
- L4

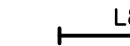
 L4: 600 x 600 RECESSED FLAT PANEL FITTING.
- L5


 L5: 300 x 600 RECESSED FLAT PANEL FITTING.
- L6


 L6: AMENITY RECESSED DOWNLIGHT.
- L7


 L7: WALL MOUNTED LINEAR HIGH BAY FITTING.
- L8


 L8: SURFACE MOUNTED IP66 1200 LONG BATTEN, C/W MOVEMENT SENSOR.
- L9


 L9: 2 x 70W FITTINGS ON A 9M HIGH POLE.
- L10


 L10: 1 x 70W FITTING ON A 9M HIGH POLE.
- L11


 L11: WALL MOUNTED CARPARK LIGHT.
- L12


 L12: 1200 LONG WALL MOUNTED BATTEN.
- L13


 L13: 1 x 120W FITTING ON A 6M HIGH POLE.
- L14


 L14: OVERHEAD CUPBOARD LED STRIP LIGHT.
- L15


 L15: 1200 LONG BATTEN, SURFACE MOUNTED.
- L16

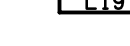
 L16: RECESSED LINEAR IP66 HIGH BAY FITTING.
- L17

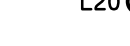
 L17: RECESSED LINEAR IP66 HIGH BAY FITTING.
- L18

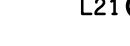
 L18: FRONT FASCIA LED STRIP LIGHT.
- L19

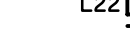
 L19: 3600 LONG SUSPENDED LED EXTRUSION FITTING.
- L20

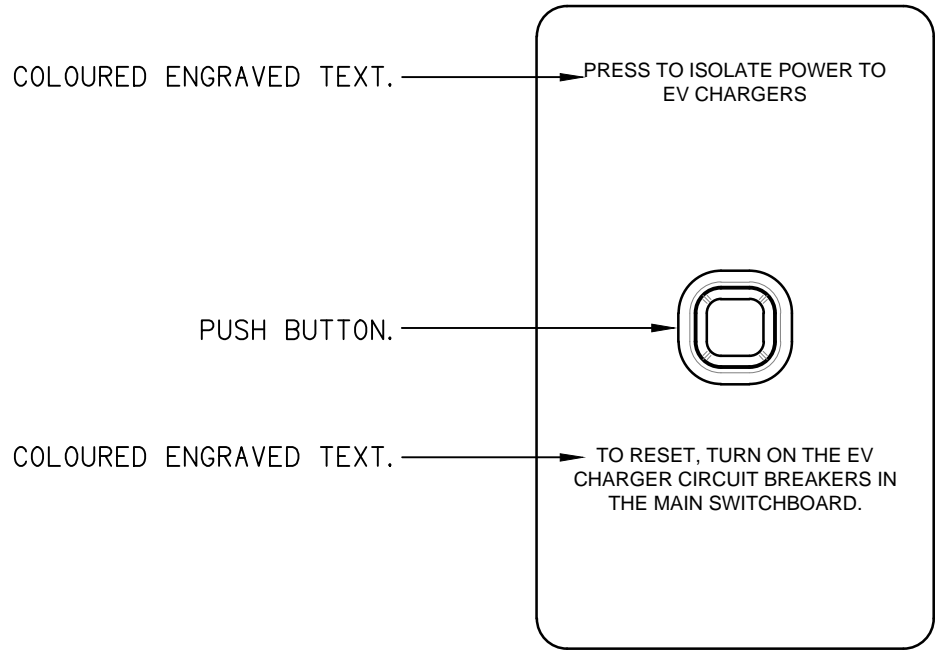
 L20: RECESSED DOWNLIGHT.
- L21

 L21: SURFACE MOUNTED DOWNLIGHT.
- L22

 L22: WALL MOUNTED CAR PARK LIGHT.
- L23

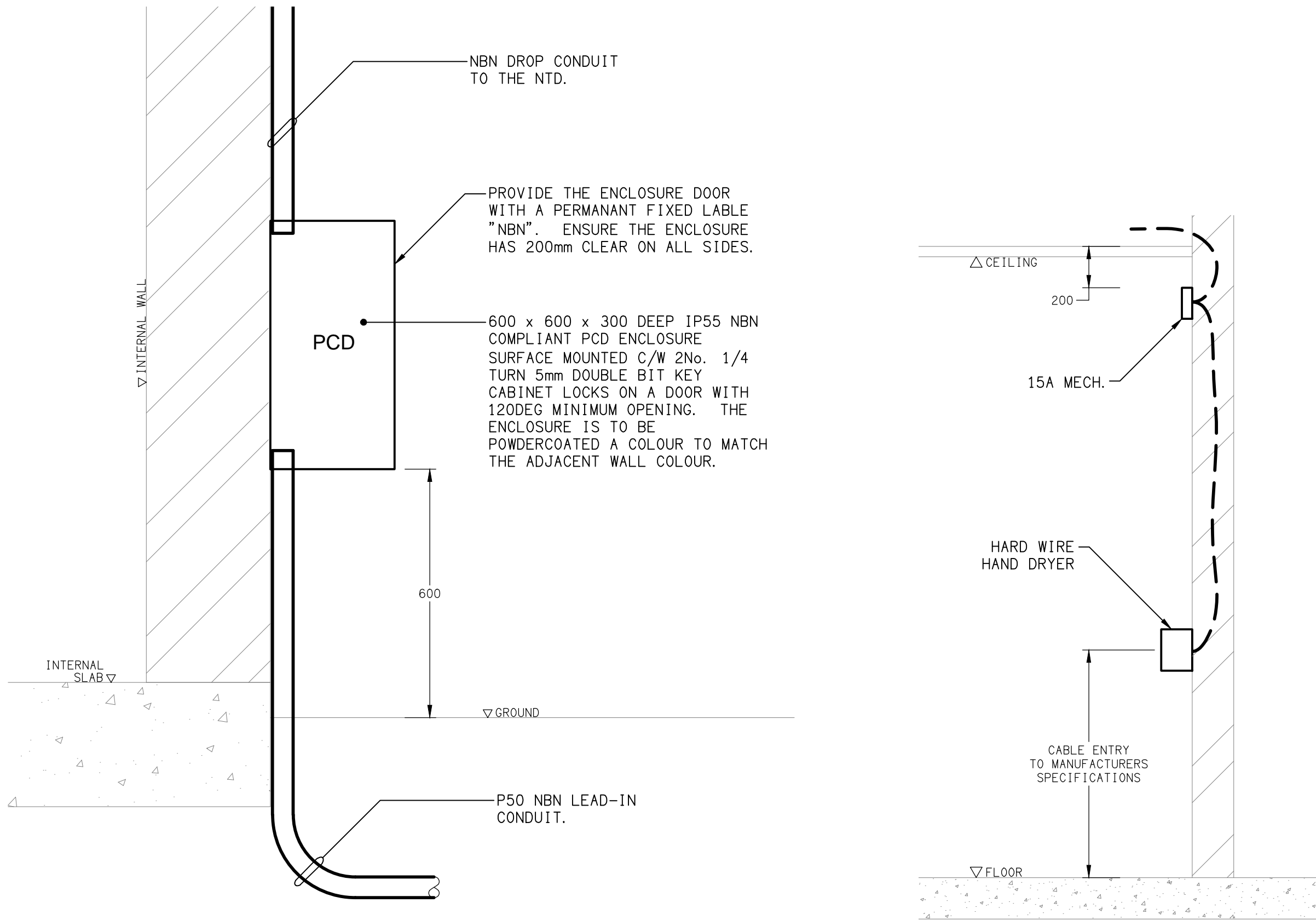
 L23: 1 x 70W FITTING ON A POLE HEIGHT 9M ABOVE RAMP.
- L24

 L24: 600 LONG BATTEN, SURFACE MOUNTED.



DETAIL

ELECTRIC VEHICLE CHARGING ISOLATION SWITCH (CIS)
NOT TO SCALE

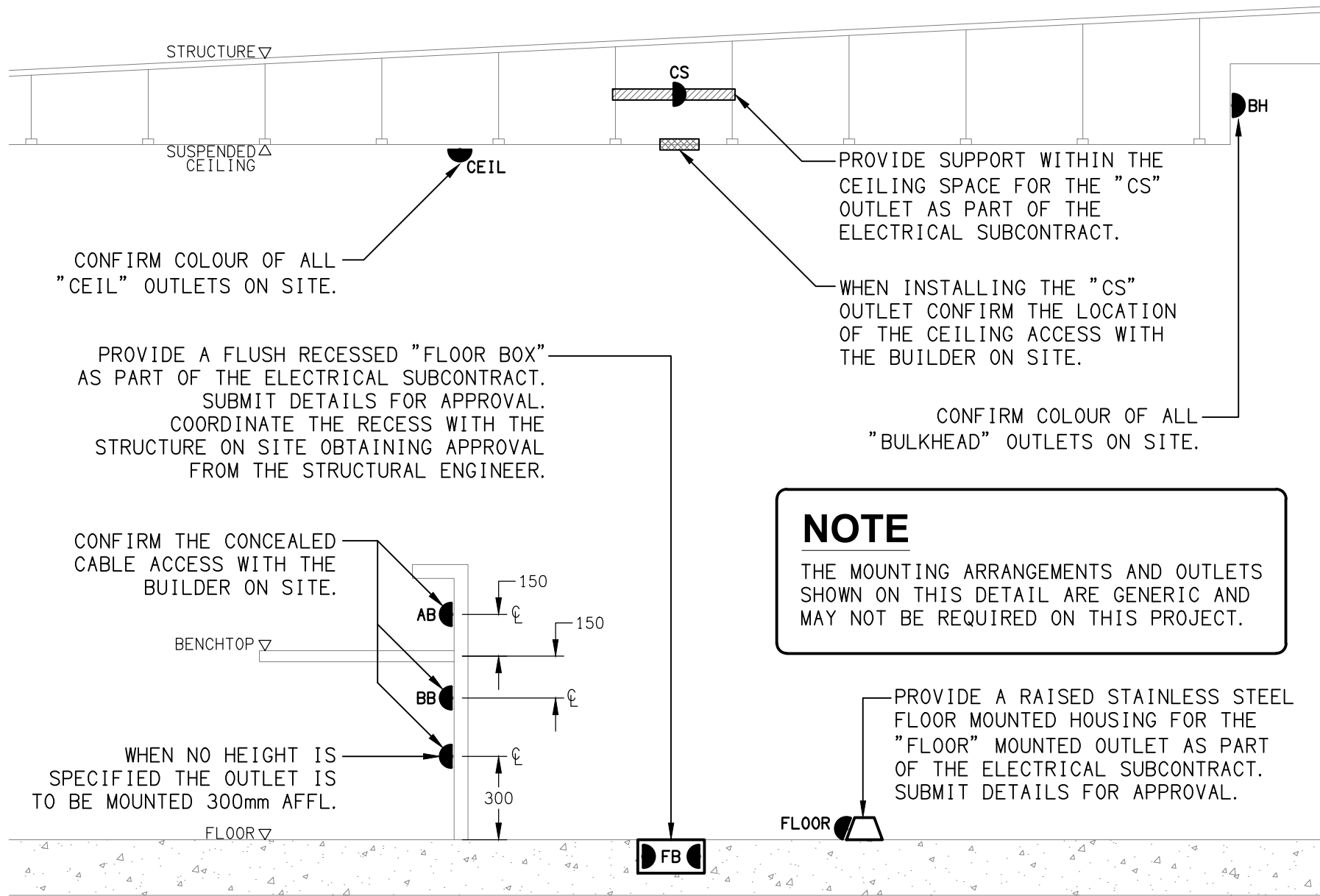


DETAIL

PCD MOUNTING
NOT TO SCALE

DETAIL

HAND DRYER CONNECTION
NOT TO SCALE



DETAIL

TYPICAL OUTLET MOUNTINGS
NOT TO SCALE

NOTES

1. EXTENT OF WORKS

THE ELECTRICAL SERVICES SUB-CONTRACT INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:

- SUPPLY AND INSTALLATION OF ALL COMPONENTS FORMING PART OF THE ELECTRICAL SERVICES.
- CO-ORDINATION.
- INSPECTIONS.
- TESTING AND COMMISSIONING.
- MAINTENANCE.
- CABLING, CABLE SUPPORT SYSTEMS AND ACCESS.
- POWER DISTRIBUTION.
- LIGHTING.
- COMMUNICATIONS CABLING.
- FIRE 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.

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.

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.
- AS/NZS 5033: 2021.
- THE QUEENSLAND ELECTRICITY CONNECTION MANUAL V4 (QECM).
- NATIONAL METERING INSTALLATION REGULATIONS (NMIR).
- AS/NZS 4777.1:2024
- SOLAR ACCREDITATION AUSTRALIA.

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. DOCUMENTATION

WITHIN TWO WEEKS OF PRACTICAL COMPLETION PROVIDE THE FOLLOWING DOCUMENTATION.

AS CONSTRUCTED DRAWINGS INCLUDING:

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

A FITTING / EQUIPMENT SCHEDULE INCLUDING.

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

DISTRIBUTION BOARD SCHEDULES CROSS REFERENCED TO THE AS CONSTRUCTED DRAWINGS.

LIGHTING CONTROL SCHEDULE CROSS REFERENCED TO THE AS CONSTRUCTED DRAWINGS.

PHOTOS OF EACH SWITCHBOARD INCLUDING:

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

7. POWER DISTRIBUTION

THE POWER DISTRIBUTION COMPONENT OF THE ELECTRICAL SERVICES SUB-CONTRACT INCLUDES ESTABLISHING A NEW ON SITE ENERGEX CHAMBER SUBSTATION. ALL ENERGEX COSTS ARE TO BE EXCLUDED FROM THE CONTRACT AND WILL BE PAID DIRECTLY BY THE CLIENT.

ENSURE THE NEW ENERGEX SUPPLY ARE COMPLETE AT LEAST TWO MONTHS PRIOR TO PRACTICAL COMPLETION FOR COMMISSIONING. ARRANGE WITH THE BUILDER FOR THE SUBSTATION STRUCTURE TO BE COMPLETE AT LEAST SIX WEEKS PRIOR TO THE INSTALLATION OF THE ENERGEX EQUIPMENT.

THE SUBSTATION WORKS INCLUDE ALL NECESSARY SERVICES AND BUILDING WORKS REQUIRED BY ENERGEX.

THE MSB IS TO CONTAIN SPACE FOR FOUR THREE PHASE CIRCUIT BREAKERS, SPACE FOR ENERGY MONITORING EQUIPMENT AND 24 SPARE DIN RAIL POLES FOR THE FUTURE CONNECTION SOLAR / BATTERIES AS PER J905 OF THE NCC BCA 2022. THE SPARE CIRCUIT BREAKER, ENERGY MONITORING EQUIPMENT AND DIN RAIL SPACES ARE TO BE LABELLED (RESERVED FOR SOLAR / BATTERIES).

PROVIDE AN ENERGY MONITORING SYSTEM AS PER J903 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 POWER DISTRIBUTION COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- POWER DISTRIBUTION.
- ENERGEX CHAMBER SUBSTATION.
- RETAIL METERING.
- CONSUMERS MAINS.
- MAIN SWITCHBOARD.
- SUBMAINS.
- DISTRIBUTION BOARDS.
- EV CHARGERS INCLUDING A LOAD MANAGEMENT SYSTEM.
- PV SYSTEM INCLUDING THE ENERGEX APPLICATION.
- CABLE ACCESS WAYS.
- CIRCUITS.
- ISOLATORS AND OUTLETS.
- TESTING AND COMMISSIONING.
- THERMOSCAN ALL OF THE SWITCHBOARDS ONE WEEK AFTER PRACTICAL COMPLETION. PROVIDE A CHART RECORDING OF THE MAINS CURRENT, VOLTAGE, FREQUENCY FOR THE FIRST 14 DAYS FOLLOWING PRACTICAL COMPLETION AND SUBMIT THE THERMOSCAN CHART RECORDING AND FOR APPROVAL.

PROVIDE THE SITE MAIN SWITCHBOARD (MSB) AS FOLLOWS:

- PLINTH MOUNTED.
- NATIONAL ELECTRICITY MARKET (NEM) COMPLIANT RETAIL METERING.
- PROVIDE A COPY OF THE ENERGEX APPROVAL OF THE MSB.
- IP44.
- 316 STAINLESS STEEL OR ALUMINIUM ENCLOSURE, DOORS AND ESCUTCHEONS.
- LIGHT GREY ENCLOSURE WITH GLOSS WHITE ESCUTCHEONS.
- 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.

PROVIDE THE METER CUBICAL AS FOLLOWS:

- WALL MOUNTED.
- IP65.
- 316 STAINLESS STEEL OR ALUMINIUM ENCLOSURE, DOORS AND ESCUTCHEONS.
- LIGHT GREY ENCLOSURE WITH GLOSS WHITE ESCUTCHEONS.
- ALL COMPONENTS ARE TO BE LABELLED WITH NON-STICK LABELS.
- ENERGEX PADLOCK.
- TWO ENERGEX PADLOCK KEYS.

PROVIDE THE INTERNAL DISTRIBUTION BOARDS 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.
- 25% SPARE POLES AT PRACTICAL COMPLETION.
- ALL COMPONENTS ARE TO BE LABELLED WITH NON-STICK LABELS.

NOTES

7. POWER DISTRIBUTION CONTINUED

PROVIDE THE EXTERNAL DISTRIBUTION BOARDS AS FOLLOWS:

- WALL MOUNTED.
- IP65 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.
- 25% SPARE POLES AT PRACTICAL COMPLETION.
- ALL COMPONENTS ARE TO BE LABELLED WITH NON-STICK LABELS.

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

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

1. SOLAR PV SYSTEM THE SOLAR PV INSTALLATION MUST BE UNDERTAKEN BY AN INSTALLER WITH SOLAR ACCREDITATION AUSTRALIA (SAA) DESIGN AND INSTALLATION ACCREDITATION.

THE WORKS INCLUDE THREE PV SOLAR SYSTEMS BEING:

- STAGE 1 – SYSTEM 1. 62 KW DC SYSTEM MINIMUM.
- STAGE 1 – SYSTEM 2. 56 KW DC SYSTEM MINIMUM.
- STAGE 2 – SYSTEM 2. 17 KW DC SYSTEM MINIMUM.

UNDERTAKE ALL NECESSARY NEGOTIATIONS AND CERTIFICATIONS WITH / REQUIRED BY ENERGEX TO FACILITATE THE CONNECTION OF THE SOLAR PV SYSTEMS.

THE SOLAR PV INSTALLATION INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:

- ARRANGING AND OBTAINING THE ENERGEX APPROVALS.
- RPEQ ENGINEERING AND DESIGN OF THE SOLAR PV SYSTEM.
- CORROSION PROTECTION.
- PROVIDE APPROPRIATE WARNING LABELS ON ALL PLANT THAT ARE SUBJECT TO RECEIVING MULTIPLE SOURCES OF POWER.
- ALL CABLING MUST BE COPPER.
- PROVIDE CLEAN ENERGY COUNCIL APPROVED PV PANELS WITH AN EFFICIENCY IN EXCESS OF 20% AND A MANUFACTURERS 15-YEAR PRODUCT WARRANTY AND PERFORMANCE WARRANTY GUARANTEEING 80% OF THE PANELS RATED OUTPUT AFTER 25 YEARS. THE PV PANEL MANUFACTURER MUST HAVE AN AUSTRALIAN OFFICE.
- PROVIDE A HOT DIPPED GALVANIZED OR ALUMINIUM PV PANEL SUPPORT SYSTEM.
- PROVIDE CLEAN ENERGY COUNCIL APPROVED INVERTERS THAT HAVE A WI FI INTERNET CONNECTION, A LOSS OF LESS THAN 2.5% AND A MANUFACTURERS PRODUCT WARRANTY OF 10 YEARS WITHOUT REGISTRATION BY THE CLIENT. THE INVERTER MANUFACTURER MUST HAVE AN AUSTRALIAN OFFICE.
- 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 WALL MOUNTED INVERTERS WITH A IP65 RATING MINIMUM DESIGNED TO OPERATE IN AN AMBIENT TEMPERATURE RANGE OF 0 DEGREES TO 40 DEGREES.
- THE INVERTER CAPACITY MUST EXCEED 90% OF THE SUM OF THE PV PANELS RATED CAPACITY.
- 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 EACH INVERTER WITH NETWORK PROTECTION.

PROVIDE CORROSION AND ENVIRONMENTAL PROTECTION AS NECESSARY TO ENSURE THE INSTALLATION IS SUITABLY PROTECTED FOR 10 YEARS. THE CORROSION AND ENVIRONMENTAL PROTECTION INCLUDES THOUGH IS NOT LIMITED TO:

- ALL EXPOSED STEEL IS TO BE HOT DIPPED GALVANIZED.
- ALL METALLIC FIXINGS EXPOSED TO THE WEATHER ARE TO BE MARINE GRADE 316.
- ALL PLASTIC EXPOSED TO WEATHER MUST BE UV STABILISED.

8. LIGHTING

ALL LIGHT FITTINGS MUST BE PROVIDED AS SOLID-STATE LED WITH A FIVE-YEAR MANUFACTURERS REPLACEMENT WARRANTY AND A MINIMUM TWO YEAR MANUFACTURERS REPLACEMENT AND LABOUR WARRANTY.

REMOTE DRIVERS ARE TO BE USED IF POSSIBLE AND LOCATED IN A CONCEALED ACCESSIBLE POSITION. IF THE DRIVER CAN NOT BE REACHED FROM THE FITTING ITS POSITION MUST BE NOTED ON THE AS CONSTRUCTED DOCUMENTS.

ALL LIGHTING CIRCUITS MUST BE PROTECTED BY A 20 AMP RCBO WITH THE AVERAGE NUMBER OF FITTINGS / DRIVERS SUPPLIED FROM A SINGLE CIRCUIT NOT EXCEEDING 25 WITH THE MAXIMUM NOT EXCEEDING 30.

PROVIDE A PHILIPS DYNALITE LIGHTING CONTROL SYSTEM TO CONTROL THE LIGHTING CONFIGURED WITH THE FOLLOWING SCENES:

INTERNAL

- CLEANING – MANUAL OPERATION. 100% LIGHTS ON AND SIGNS OFF.
- DAY – AUTOMATIC OPERATION FROM 8.00 AM TO 3.30 PM.
- AFTERNOON – AUTOMATIC OPERATION FROM 3.30 PM TO DUSK.
- EVENING – AUTOMATIC OPERATION FROM DUSK TO 9.30 PM.
- CLOSED – MANUAL OPERATION. 100% ON FOR 15 MINUTES THEN TO A SECURITY MODE.

EXTERNAL

- DAY – AUTOMATICALLY OFF FROM DAWN TO DUSK.
- NIGHT – AUTOMATICALLY ON FROM DUSK UNTIL DAWN.

PROVIDE PHILIPS DYNALITE PROGRAMMABLE SWITCH PANELS PE SENSORS AND TIME CLOCKS AS NECESSARY. EACH FUNCTIONAL AREA IS TO BE PROVIDED WITH A SWITCHPANEL IN A NON-CUSTOMER ACCESSIBLE POSITION WITH THE ABILITY TO MANUALLY INSTIGATE THE ABOVE SCENES.

DIN RAIL MOUNT THE PHILIPS DYNALITE CONTROL EQUIPMENT WITHIN THE ASSOCIATED SWITCHBOARD.

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.
- LIGHT POLES.
- EMERGENCY AND EXIT LIGHTING.
- EARTHING OF THE LIGHTING INSTALLATION.
- LIGHTING CONTROL.
- PHILIPS DYNALITE LIGHTING CONTROL SYSTEM.
- LIGHTING SUBCIRCUITS.
- TESTING AND COMMISSIONING.

COMMISSION THE LIGHTING CONTROL AT PRACTICAL COMPLETION AND AGAIN THREE TIMES DURING THE DEFECTS AND LIABILITY PERIOD TO THE SATISFACTION OF THE OPERATOR.

ELECTRICAL DESIGN GROUP BRISBANE PTY LTD ACN 092 710 793		THE COPYRIGHT OF THIS DRAWING REMAINS THE PROPERTY OF THE ELECTRICAL DESIGN GROUP.		PROJECT: EAGERS 151 SANDGATE ROAD, ALBION		A TENDER 13/11/2025	
TRADING AS: ELECTRICAL DESIGN GROUP		USE FIGURED DIMENSIONS IN PREFERENCE TO SCALE.		BRISBANE GOLD COAST		REV: DESCRIPTION: DATE:	
P.O.Box 15, Sherwood Q.4075 Phone: (07) 3278 4375 Email: brisbane@edg.net.au Web: www.edg.net.au		ALL DIMENSIONS TO BE VERIFIED ONSITE.		BRISBANE, QUEENSLAND		DRAWING: ELECTRICAL SERVICES NOTES	
NOT TO SCALE AT A1		PROJECT NO: C3531a		DRAWING NO: E002		REVISION: A	

NOTES

9. EMERGENCY AND EXIT LIGHTING

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.

10. COMMUNICATIONS CABLING

THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES THE PROVISION OF A NEW NBN SERVICE TO THE SITE WITH A NBN NTDs ADJACENT CR-A. ARRANGE FOR THE NBN SERVICES TO BE INSTALLED INCLUDING ALL CABLE ACCESS WAYS AND DOCUMENTATION IN ACCORDANCE WITH THE NBN REQUIREMENTS. PROVIDE THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT AS A COMSCOPE OR MOLEX CAT 6 INSTALLATION WITH A 15 YEAR MANUFACTURERS PERFORMANCE WARRANTY. 12 CORE OM3 FIBRE CABLING FULLY TERMINATED WITH LC CONNECTORS IS TO BE PROVIDED IN STAR CONFIGURATION FROM CR-A TO CR-1, CR-2, CR-3, CR-5 AND CR-8. ALL OF THE FIBRE IS TO BE MOUNTED IN FOBOTS WITHIN THE ASSOCIATED COMMUNICATIONS RACK.

THE COMMUNICATIONS CAT 6 CABLING IS TO BE RUN TO PATCH PANELS WITHIN THE RACK ASSOCIATED WITH THAT AREA. REFER TO THE COMMUNICATIONS SCHEMATIC FOR THE AREAS ASSOCIATED WITH EACH RACK. RACKS CR-B AND CR-C ARES TO BE USED TO HOUSE THE CCTV PATCH PANELS AND CCTV ACTIVE EQUIPMENT. RACK CR-D IS TO HOUSE THE AUDIO-VISUAL EQUIPMENT.

THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:
- NBN APPLICATION AND LEAD-IN SERVICES.
- NBN CABLE ACCESS WAYS INCLUDING THE PCD AND NTDs.
- COMMUNICATIONS RACKS CR-A, CR-B, CR-C AND CR-D
- COMMUNICATIONS RACKS CR-1, CR-2, CR-3, CR-4, CR-5 AND CR-8.
- FOBOTS.
- FIBRE CABLING.
- PATCH PANELS.
- CAT 6 COMMUNICATIONS OUTLETS AND CABLING.
- CABLE ACCESS WAYS.
- TESTING AND COMMISSIONING.

11. FIRE ALARM SYSTEM.

THE FIRE ALARM SYSTEM COMPONENT OF THIS CONTRACT INCLUDES THE PROVISION OF AN AS1670.1 ALARM SYSTEM IN ACCORDANCE WITH THE FIRE ENGINEERING REPORT. THE FIRE ALARM SYSTEM COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:
- FIRE INDICATOR PANEL INCORPORATING AN FDCIE AND EWCIE.
- FLOW SWITCH AND VALVE MONITORING.
- HORNS AND SPEAKERS.
- VISUAL ALARM DEVICE.
- CABLING.
- INTERFACE TO THE SECURITY SYSTEM TO UNLOCK THE DOORS ON ALARM.
- CABLE ACCESS WAYS.
- TESTING AND COMMISSIONING.

NOTES

12. 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 BREAKER C/W AN INTEGRAL 30mA RESIDUAL CURRENT DEVICE.
RCD - CIRCUIT PROTECTED VIA A 30mA RESIDUAL CURRENT DEVICE.
REF - REFRIGERATOR.
SEC - SECURITY EQUIPMENT.
UNO - UNLESS NOTED OTHERWISE.
WP - WEATHERPROOF TO IP56 UNO.
500 - NUMBER DENOTES MOUNTING HEIGHT AFFL.

13. STAGE 2

SEPARATE THE PROVINCE FOR THE STAGE 2 WORKS AS PER THE FOLLOWING SCOPE:

- ALL ELECTRICAL SERVICES DETAILED ON THE STAGE 2 DRAWINGS.
- THE SUBMAINS FROM THE MSB TO THE MDB.
- THE CIRCUITS FROM THE MSB TO THE EV CHARGERS LOCATED IN STAGE 2.
- THE SUBMAINS FROM THE SOLAR DB TO INV-3.
- THE FIBRE CABLE FROM CR-A TO CR-3 AND CR-8.

THE STAGE 1 CABLE TRAYS ARE TO BE EXTENDED TO THE EDGE OF STAGE 1 AS PART OF THE STAGE 1 WORKS, SO THEY CAN BE CONTINUED IN STAGE 2.

ELECTRICAL DESIGN GROUP BRISBANE PTY LTD ACN 092 710 793		THE COPYRIGHT OF THIS DRAWING REMAINS THE PROPERTY OF THE ELECTRICAL DESIGN GROUP.		PROJECT: EAGERS 151 SANDGATE ROAD, ALBION		A TENDER 13/11/2025	
TRADING AS: ELECTRICAL DESIGN GROUP		USE FIGURED DIMENSIONS IN PREFERENCE TO SCALE.		DRAWING: EAGERS 151 SANDGATE ROAD, ALBION		REV: DESCRIPTION: DATE:	
ALL DIMENSIONS TO BE VERIFIED ONSITE.		P.O.Box 15, Sherwood Q.4075 Phone: (07) 3278 4375 Email: brisbane@edg.net.au Web: www.edg.net.au		BRISBANE, QUEENSLAND		DRAWING: ELECTRICAL SERVICES NOTES	
		ELECTRICAL DESIGN GROUP BUILDING SERVICES CONSULTANTS BRISBANE GOLD COAST				SCALE: NOT TO SCALE AT A1	
						PROJECT NO: C3531a	
						DRAWING NO: E003	
						REVISION: A	

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.

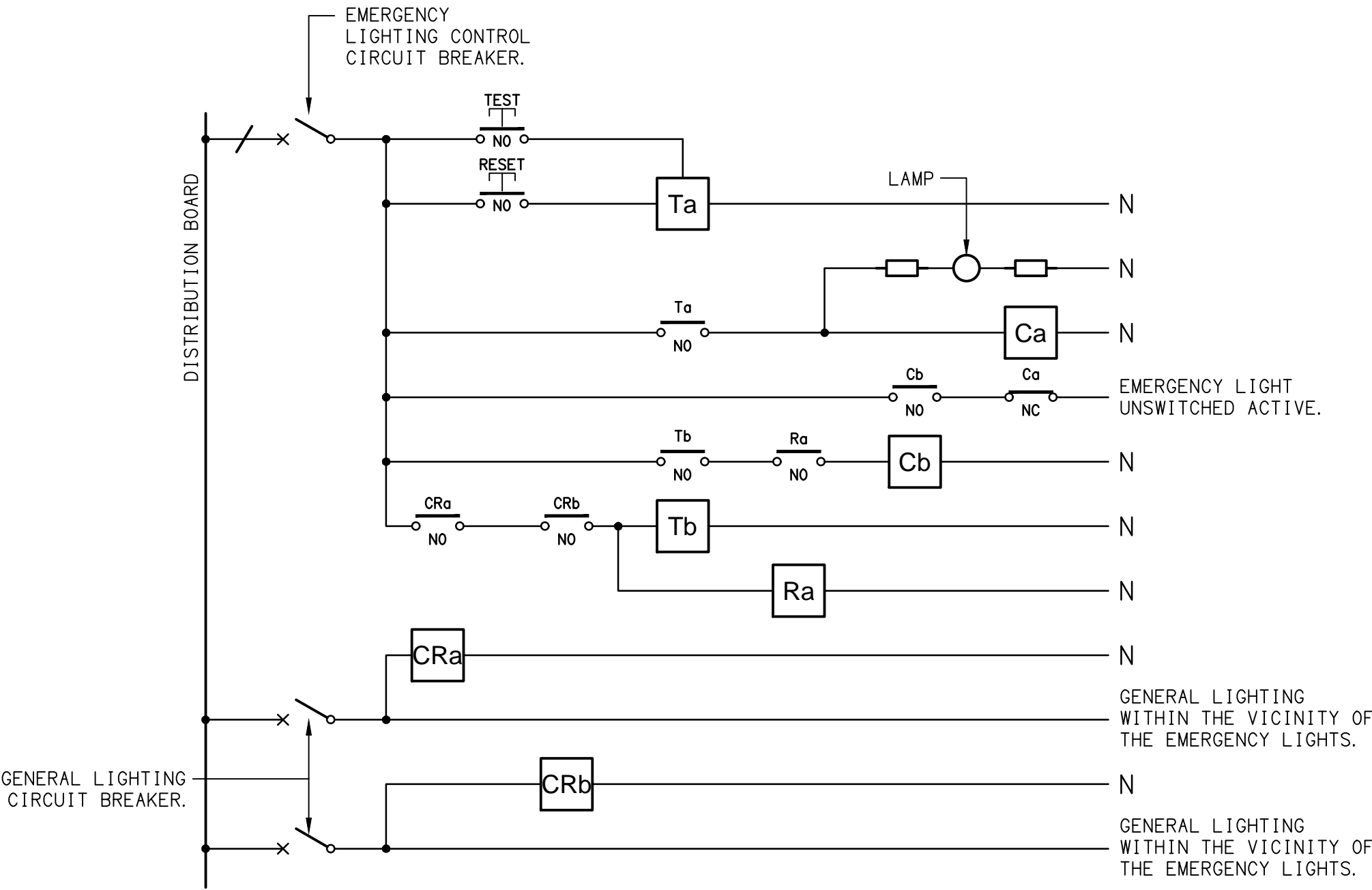
Ta - ADJUSTABLE 0-3 HOUR TIMED RELAY.

Tb - 15 MINUTE RUN-ON TIMER TO OPERATE UPON THE RETURN OF MAINS POWER.

Cx - CONTACTOR x.

CRx - CONTROL RELAY x.

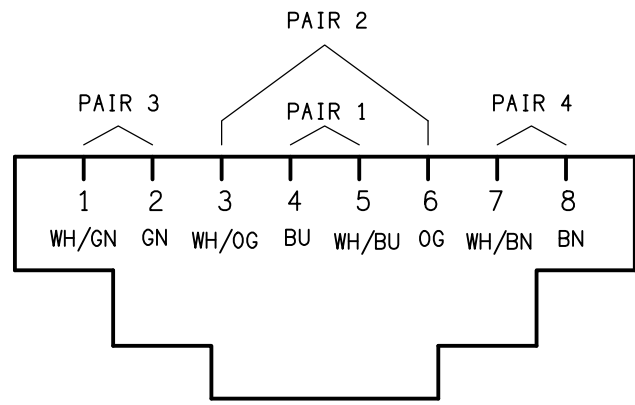
Rx - RELAY x.



NOTES

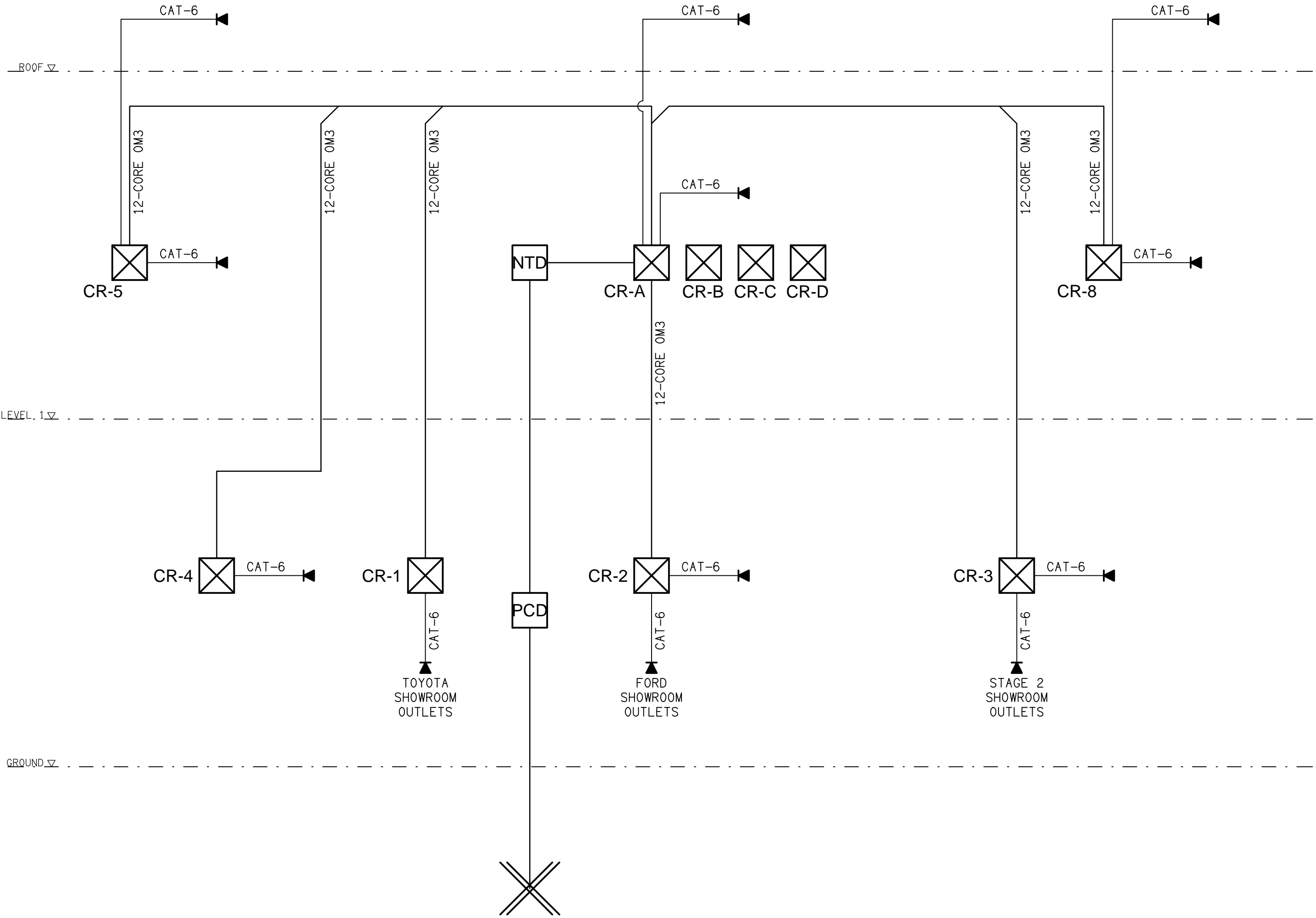
1. THE EMERGENCY LIGHT UNSWITCHED ACTIVE / GENERAL LIGHTING SWITCHED ACTIVE CIRCUIT ARRANGEMENT AND CONTROL IS TYPICAL FOR ALL CIRCUITS SUPPLYING EMERGENCY LIGHTS.

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

RJ45 PINOUT CONFIGURATION
NOT TO SCALE



SCHEMATIC

COMMUNICATIONS CONFIGURATION
NOT TO SCALE

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ELECTRICAL BUILDING SERVICES CONSULTANTS
BRISBANE GOLD COAST

P.O.Box 15, Sherwood Q.4075
Phone: (07) 3278 4375
Email: brisbane@edg.net.au
Web: www.edg.net.au

PROJECT:

EAGERS 151 SANDGATE ROAD, ALBION

BRISBANE, QUEENSLAND

A	TENDER	13/11/2025
REV:	DESCRIPTION:	DATE:

DRAWING:

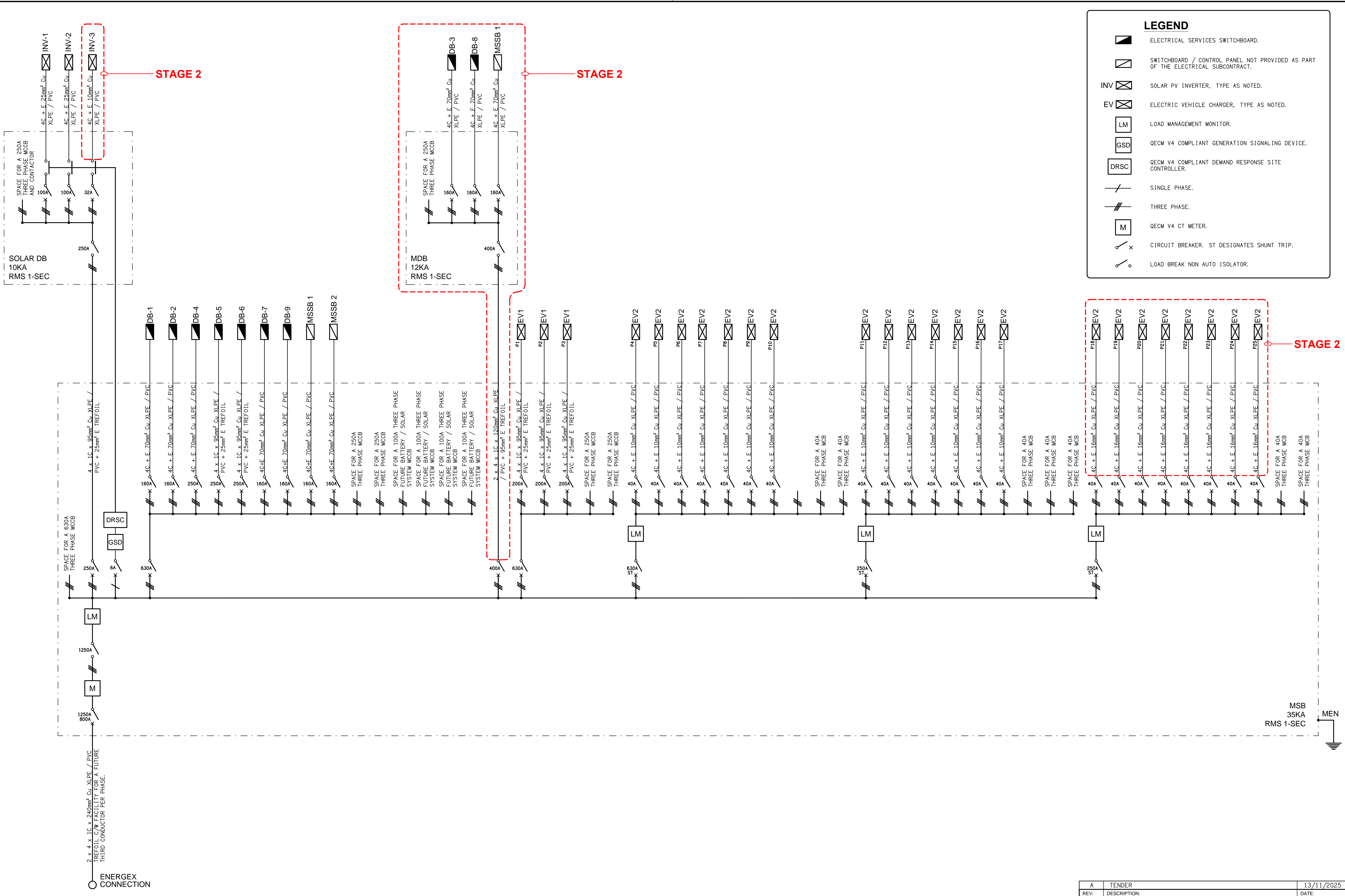
**ELECTRICAL SERVICES
SCHEMATICS**

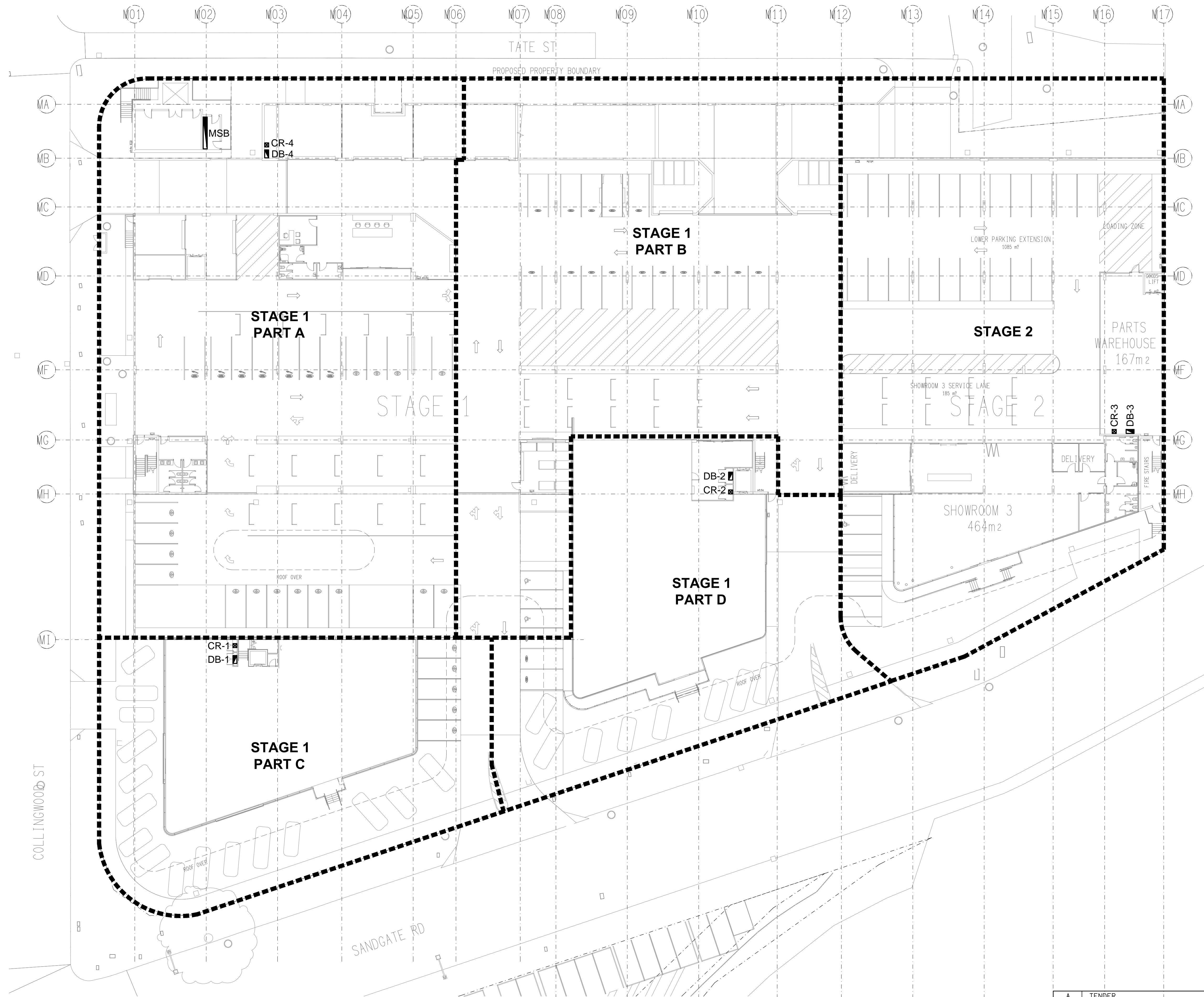
SCALE:
NOT TO SCALE AT A1

PROJECT NO:
C3531a

DRAWING NO:
E004

REVISION:
A





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PROJECT:
EAGERS 151 SANDGATE ROAD, ALBION

BRISBANE, QUEENSLAND

A	TENDER	13/11/2025
REV:	DESCRIPTION:	DATE:

DRAWING:
ELECTRICAL SERVICES
SITE PLAN
GROUND LEVEL

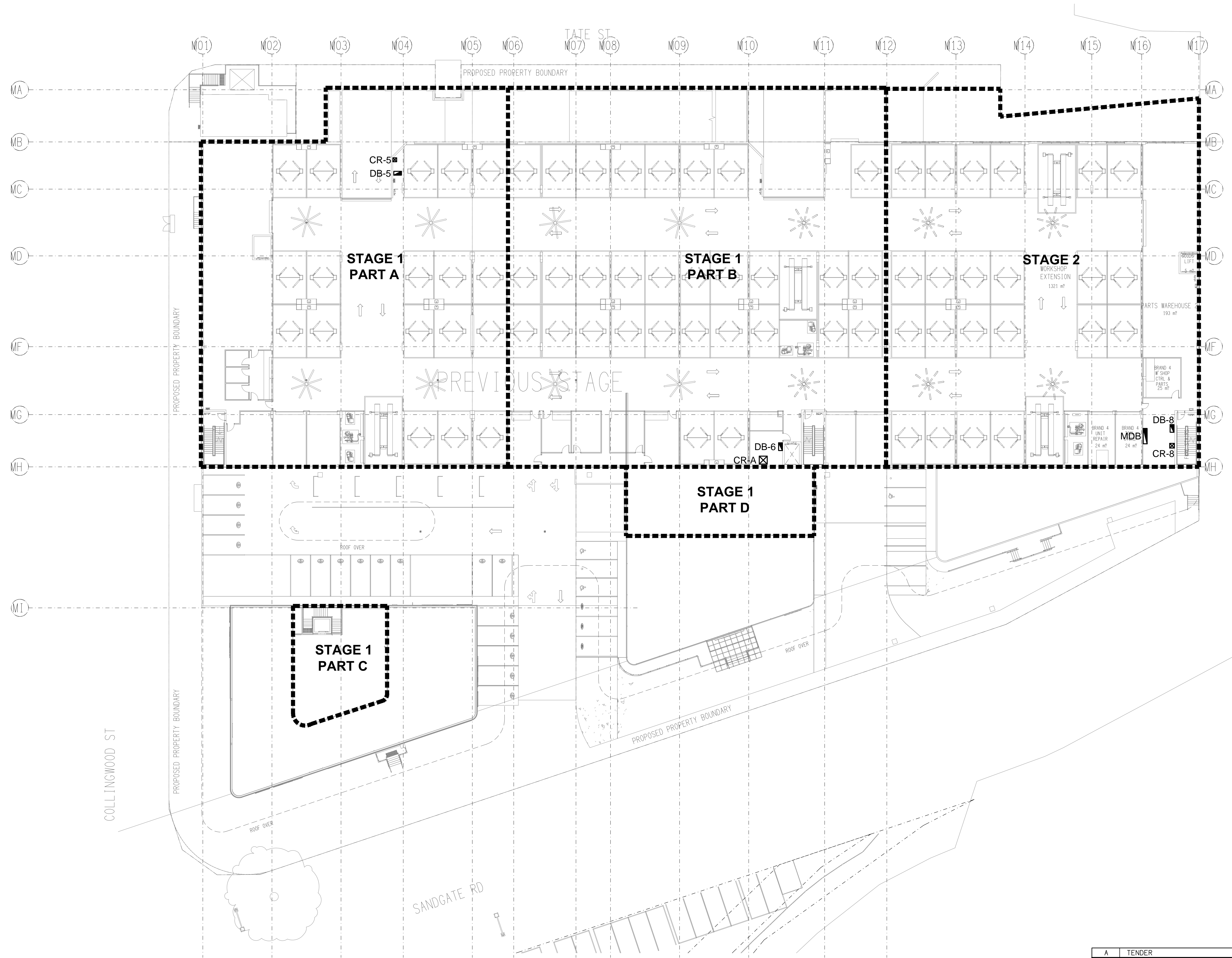
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AT A1

PROJECT NO:
C3531a

DRAWING NO:
E101

REVISION:
A



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PROJECT:
EAGERS 151 SANDGATE ROAD, ALBION

BRISBANE, QUEENSLAND

A	TENDER	13/11/2025
REV.	DESCRIPTION:	DATE:

DRAWING:
ELECTRICAL SERVICES
SITE PLAN
LEVEL 1

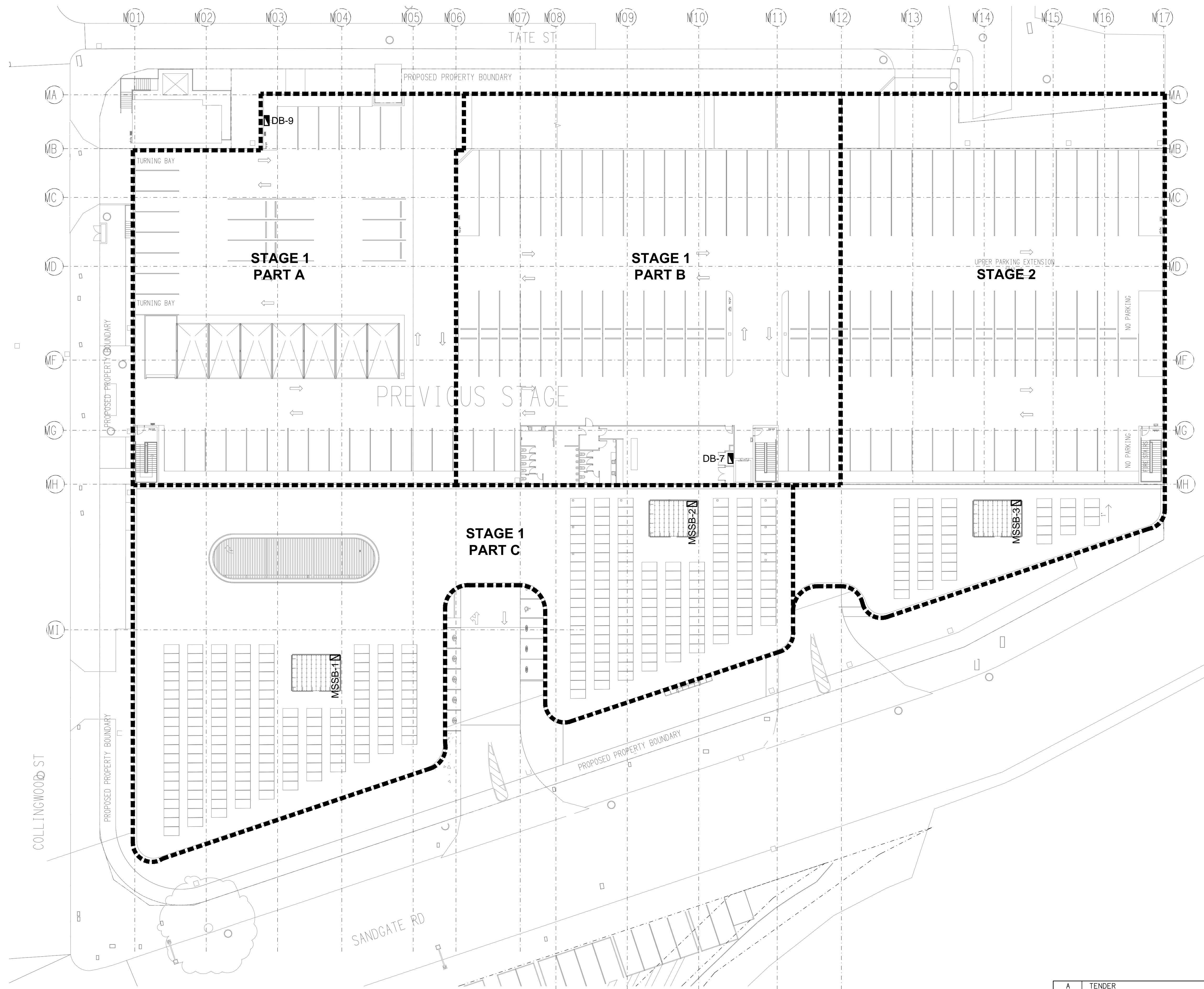
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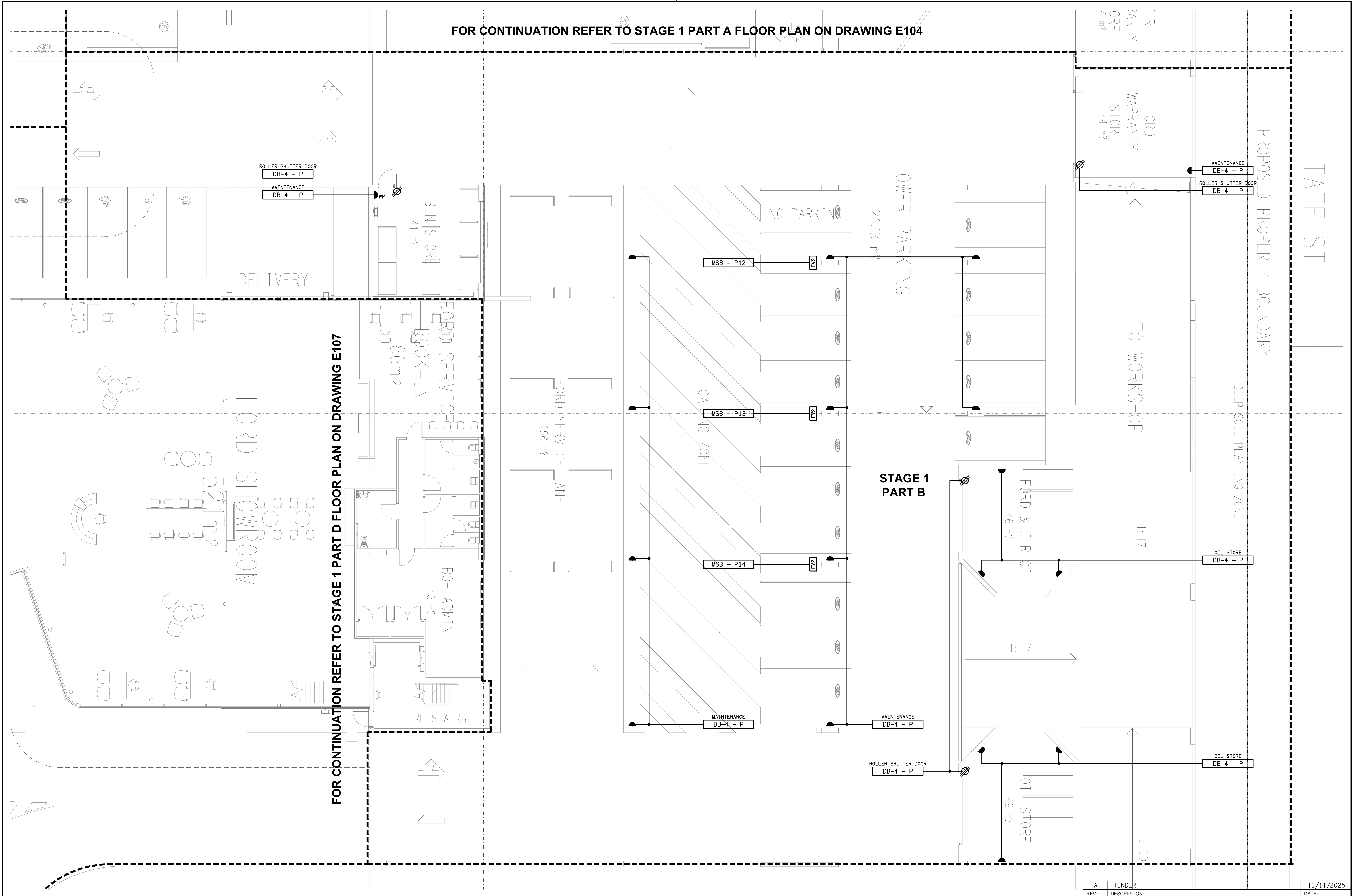
AT A1

PROJECT NO:
C3531a

DRAWING NO:
E102

REVISION:
A





FOR CONTINUATION REFER TO STAGE 1 PART A FLOOR PLAN ON DRAWING E104

FOR CONTINUATION REFER TO STAGE 1 PART D FLOOR PLAN ON DRAWING E107

FOR CONTINUATION REFER TO STAGE 1 PART A FLOOR PLAN ON DRAWING E104

SECURITY
DB-1 - P
COMMS RACK CR-1
DB-1 - P

SEC.
CR-1
DB-1

HOT WATER SYSTEM
DB-1 - P

AUTO DOOR
DB-1 - P

THE EXISTING TELSTRA PIT IN THIS VICINITY IS TO BE RELOCATED OUT FROM THE CROSS OVER. ALLOW A PC SUM OF \$20,000 + GST FOR THE RELOCATION.

ELECTRICAL SERVICES WITHIN THIS AREA ARE TO BE ALLOWED FOR AS PER THE CURRENT TOYOTA BRAND MANUAL REQUIREMENTS

DELIVERY

TOYOTA SHOWROOM
611m

FOR CONTINUATION REFER TO STAGE 1 PART D FLOOR PLAN ON DRAWING E107

ELECTRICAL SERVICES WITHIN THIS AREA ARE TO BE ALLOWED FOR AS PER THE CURRENT TOYOTA BRAND MANUAL REQUIREMENTS

MEZZANINE LEVEL
TOYOTA SHOWROOM
SCALE 1:100

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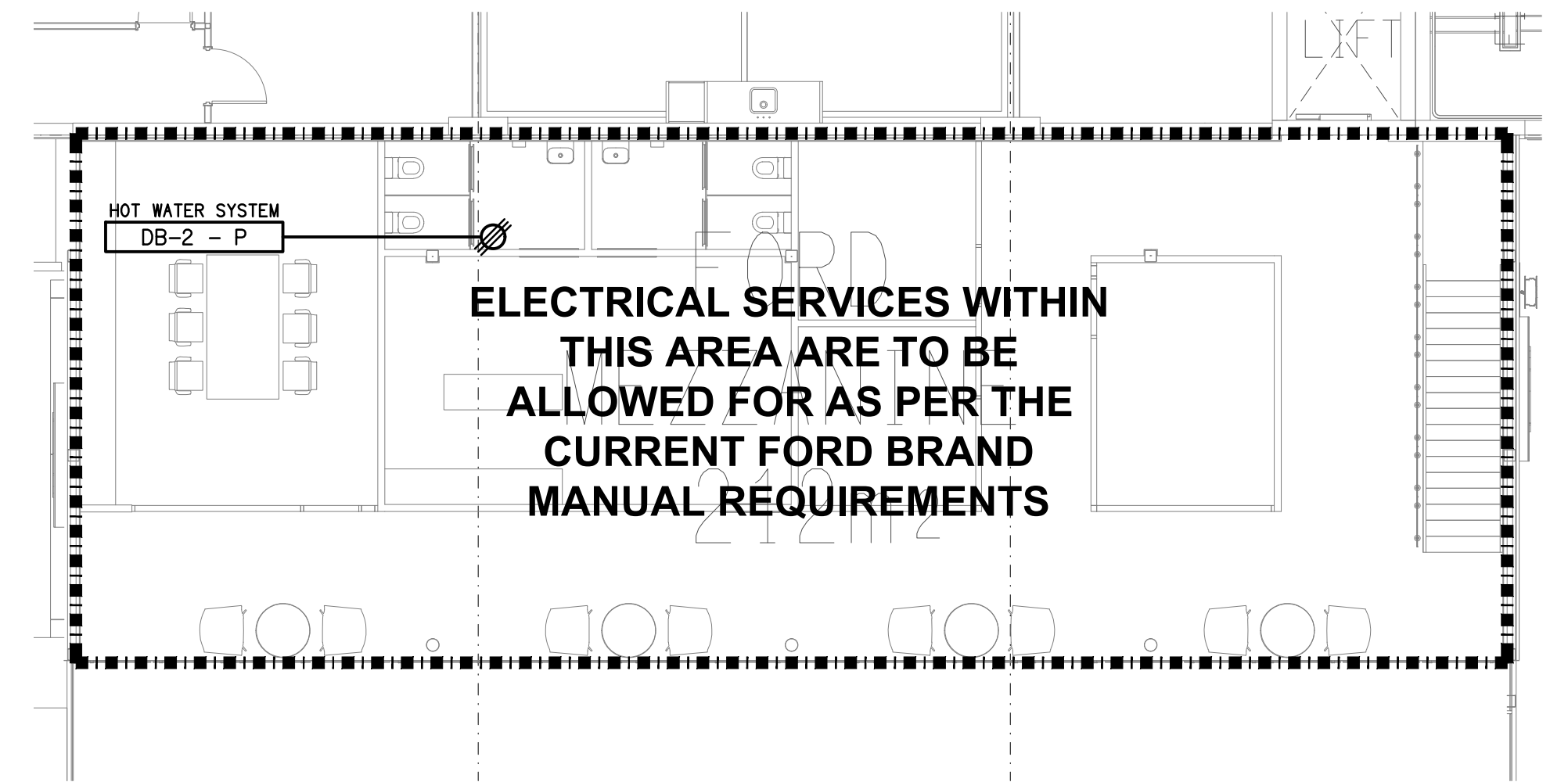
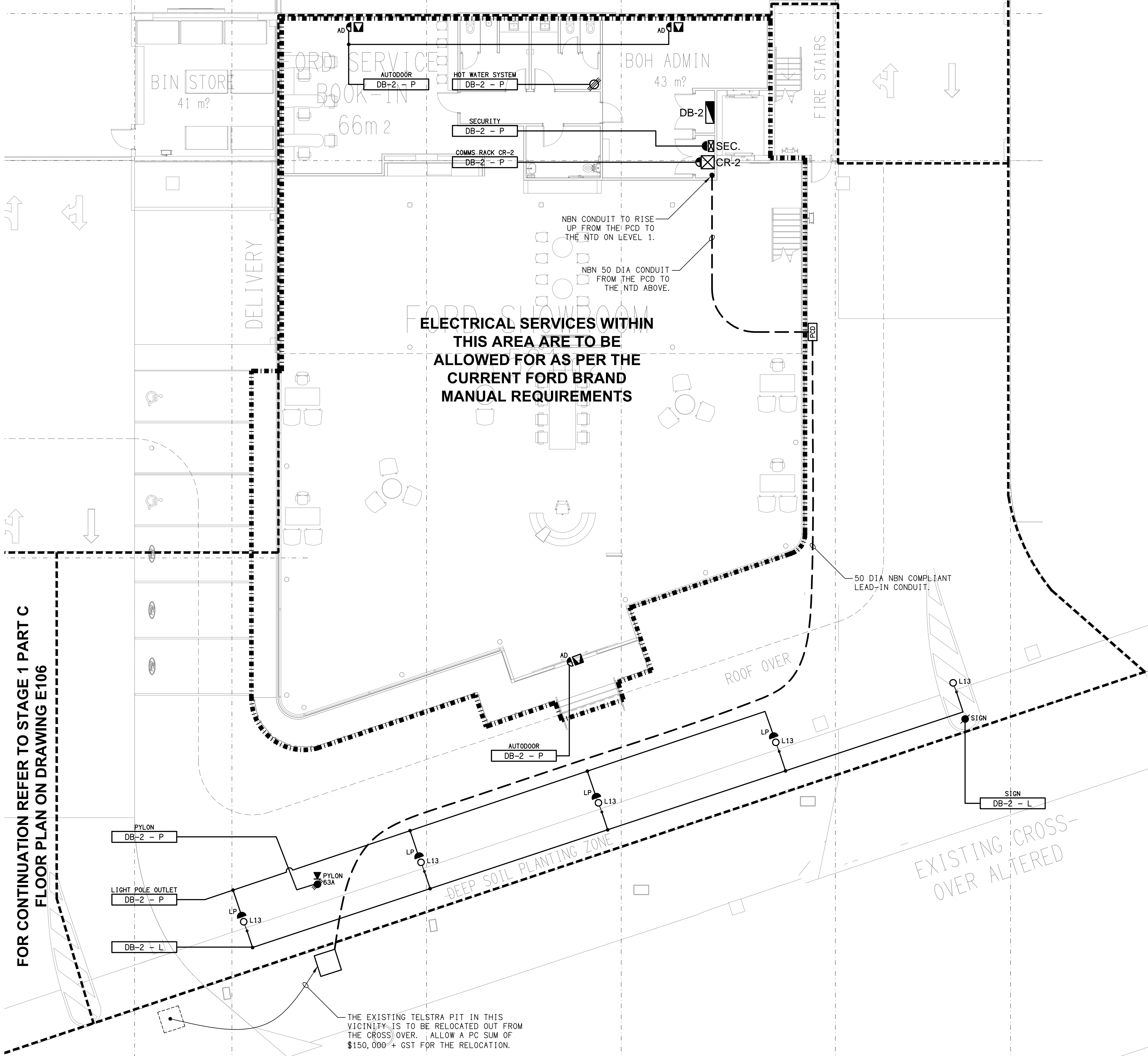
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Web: www.edg.net.au

PROJECT:
EAGERS 151 SANDGATE ROAD, ALBION

BRISBANE, QUEENSLAND

A	TENDER	13/11/2025
REV:	DESCRIPTION:	DATE:
DRAWING:	ELECTRICAL SERVICES	
	STAGE 1	
	GROUND LEVEL PART C FLOOR PLAN	
SCALE:	PROJECT NO:	DRAWING NO:
1:100	AT A1	C3531a E106
		REVISION: A

FOR CONTINUATION REFER TO STAGE 1 PART B FLOOR PLAN ON DRAWING E105



MEZZANINE LEVEL
FORD SHOWROOM
SCALE 1:100

FOR CONTINUATION REFER TO STAGE 1 PART C
FLOOR PLAN ON DRAWING E106

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PROJECT:
EAGERS 151 SANDGATE ROAD, ALBION

BRISBANE, QUEENSLAND

A	TENDER	13/11/2025
REV:	DESCRIPTION:	DATE:
DRAWING:	ELECTRICAL SERVICES	
	STAGE 1	
	GROUND LEVEL PART D FLOOR PLAN	
SCALE:	PROJECT NO:	DRAWING NO:
1:100	AT A1	C3531a E107
		REVISION:
		A

MA

MB

MC

MD

MF

MG

MH

PROPOSED TRANSFORMER
& EASEMENT

FORKLIFT CHARGER
DB-5 - P

HOIST / WORKBENCH
DB-5 - P

SERVICES RETICULATION

RAMP UP

SECURITY
DB-5 - P

WORKBENCH
DB-5 - P

PARTS
DB-5 - P

COMMS RACK CR-5
DB-5 - P

HOIST
DB-5 - P

ROLLER SHUTTER DOOR
DB-5 - P

SEC

CR-5

HOIST
DB-5 - P

HOIST
DB-5 - P

HOIST
DB-5 - P

ROLLER SHUTTER DOOR
DB-5 - P

LIFT
DB-5 - P

PARTS
DB-5 - P

GOODS
LIFT

PARTS
WAREHOUSE
1
267 m²

STAGE 1
PART A

WORK BENCH
DB-5 - P

WORK BENCH
DB-5 - P

WORK BENCH
DB-5 - P

PARTS
DB-5 - P

SHARED
PARTS
COUNTING

ROLLER SHUTTER DOOR
DB-5 - P

UNIT REPAIR
DB-5 - P

TYRE 15A
DB-5 - P

TYRE
DB-5 - P

ROLLER SHUTTER DOOR
DB-5 - P

ALIGNMENT
DB-5 - P

HOIST
DB-5 - P

HOIST
DB-5 - P

OFFICE PARTS
DB-5 - P

PARTS COUNTER
DB-5 - P

CLEANING
DB-5 - P

TRAINING
DB-5 - P

TRAINING
ROOM
39 m²

TOYOTA
TOOL
STORE
30 m²

TOYOTA
UNIT
REPAIR
30 m²

TYRE
SERVICE
21 m²

TOYOTA
WORKSHOP
CONTROL
30 m²

TOOL CHARGER
DB-5 - P

TOOL CHARGER
DB-5 - P

UNIT REPAIR 15A
DB-5 - P

UNIT REPAIR 15A
DB-5 - P

UNIT REPAIR
DB-5 - P

TYRE
DB-5 - P

HOIST
DB-5 - P

WORK BENCH
DB-5 - P

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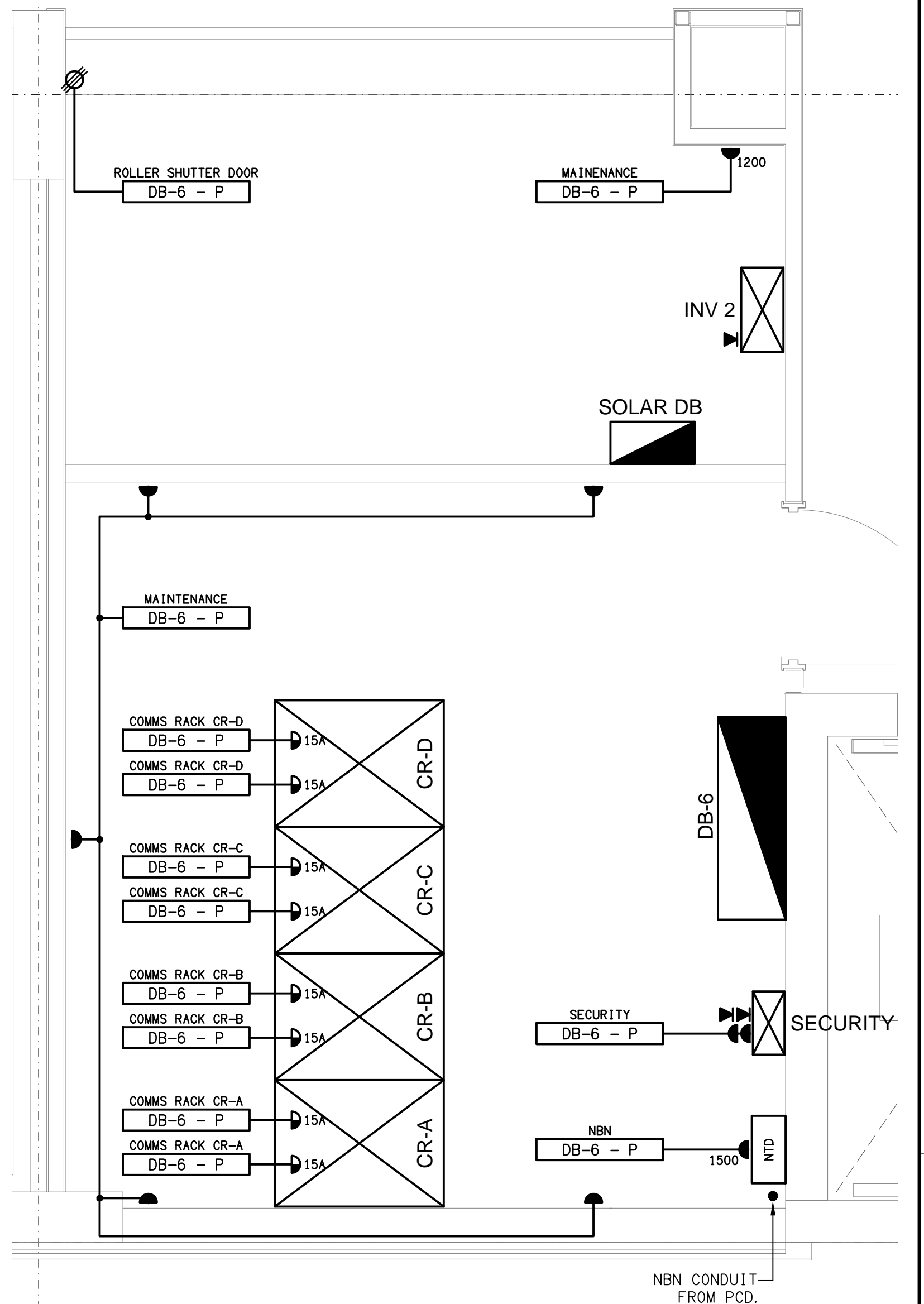
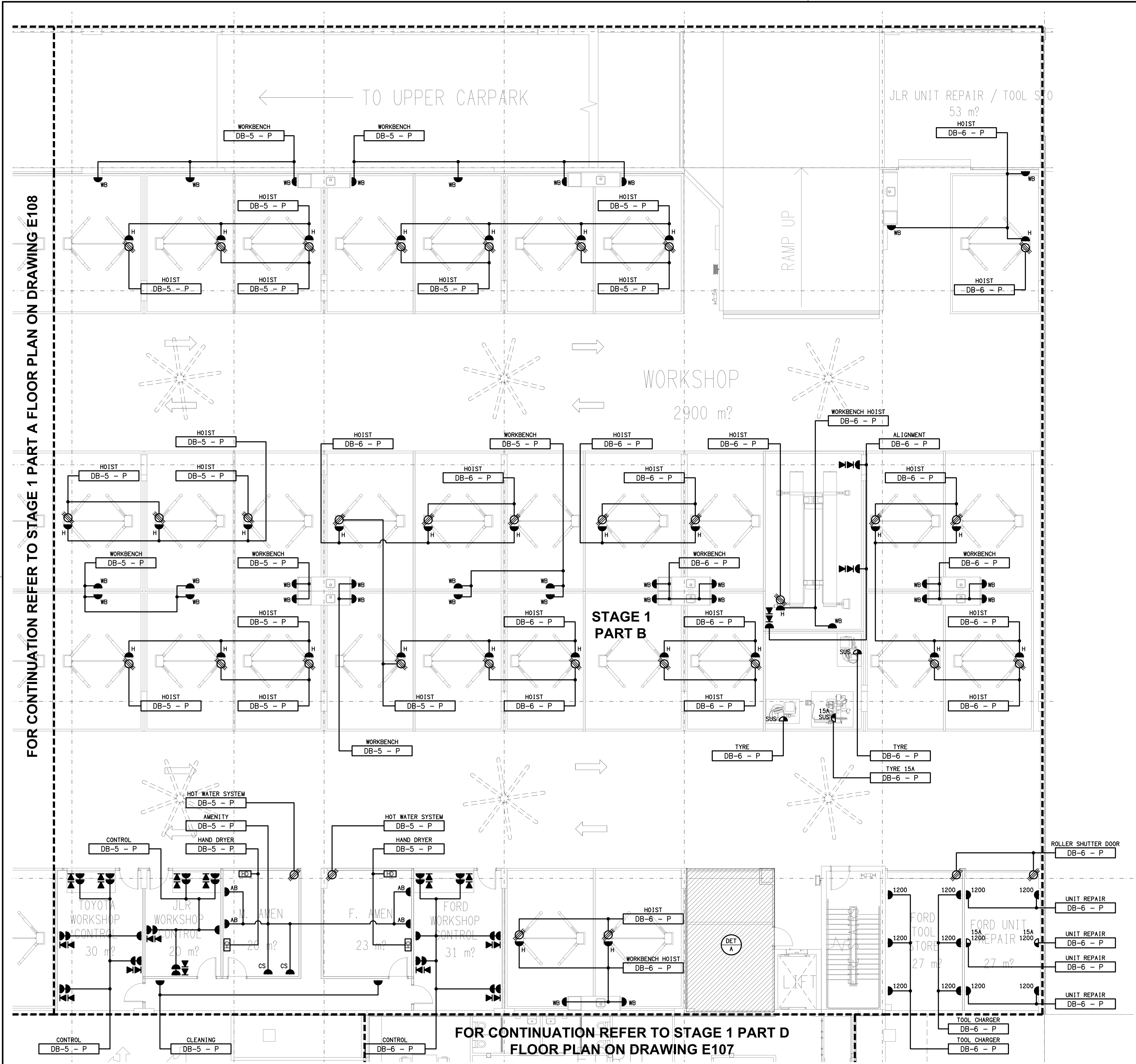
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PROJECT:
EAGERS 151 SANDGATE ROAD, ALBION

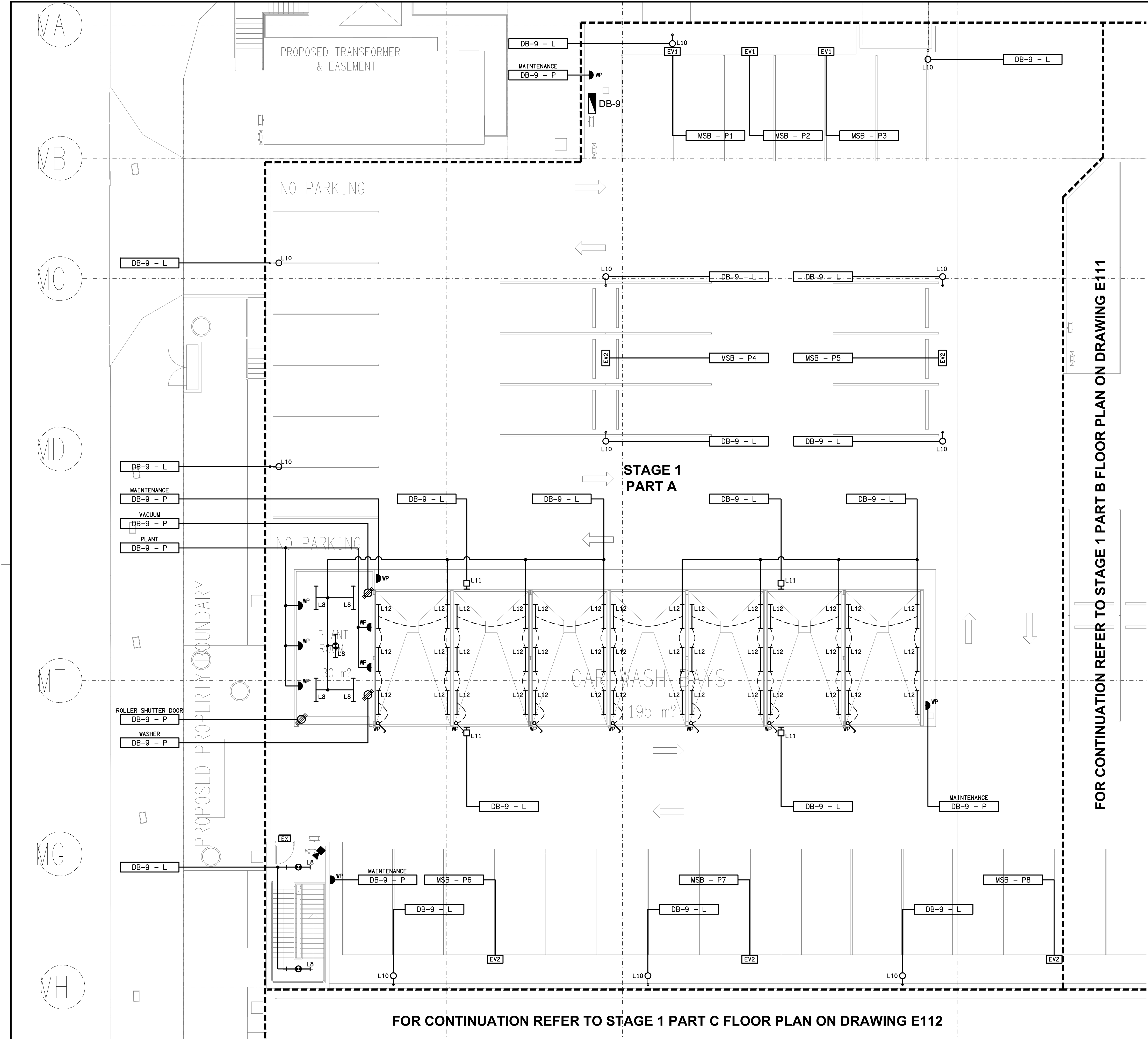
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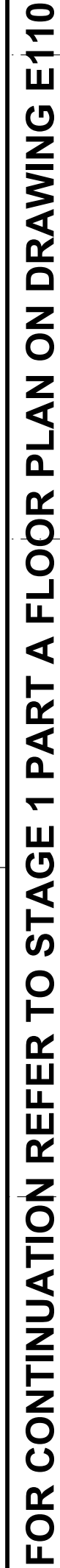
A	TENDER	13/11/2025
REV.	DESCRIPTION:	DATE:

DRAWING: ELECTRICAL SERVICES STAGE 1 LEVEL 1 PART A FLOOR PLAN		PROJECT NO: C3531a	DRAWING NO: E108	REVISION: A
SCALE: 1:100	AT A1			

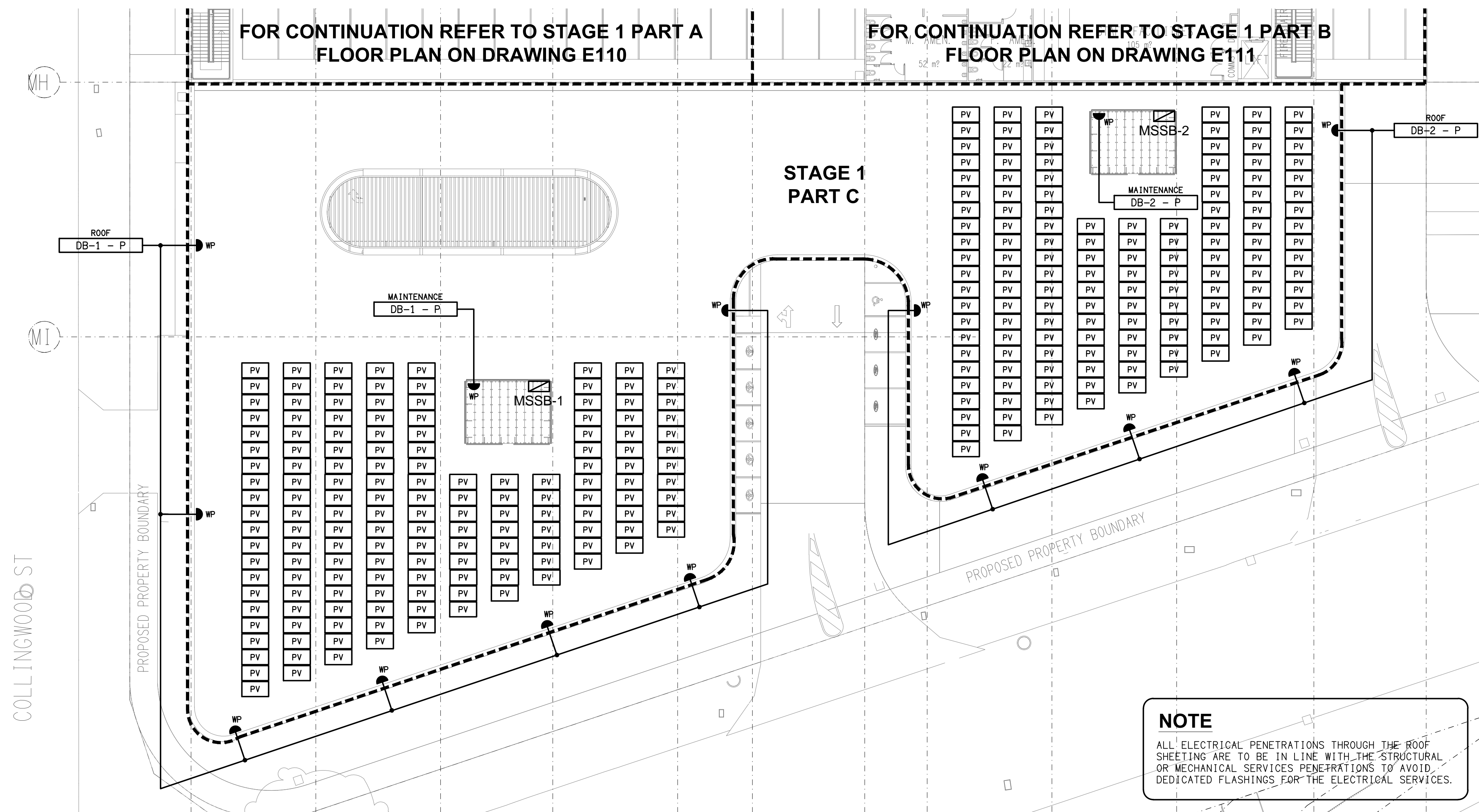


DETAIL A
ELECTRICAL ROOM PLANS
SCALE 1:25





DRAWING: ELECTRICAL SERVICES			
STAGE 1			
ROOF LEVEL PART B FLOOR PLAN			
SCALE: 1:100	PROJECT NO: C5531a	DRAWING NO: E111	REVISION: A



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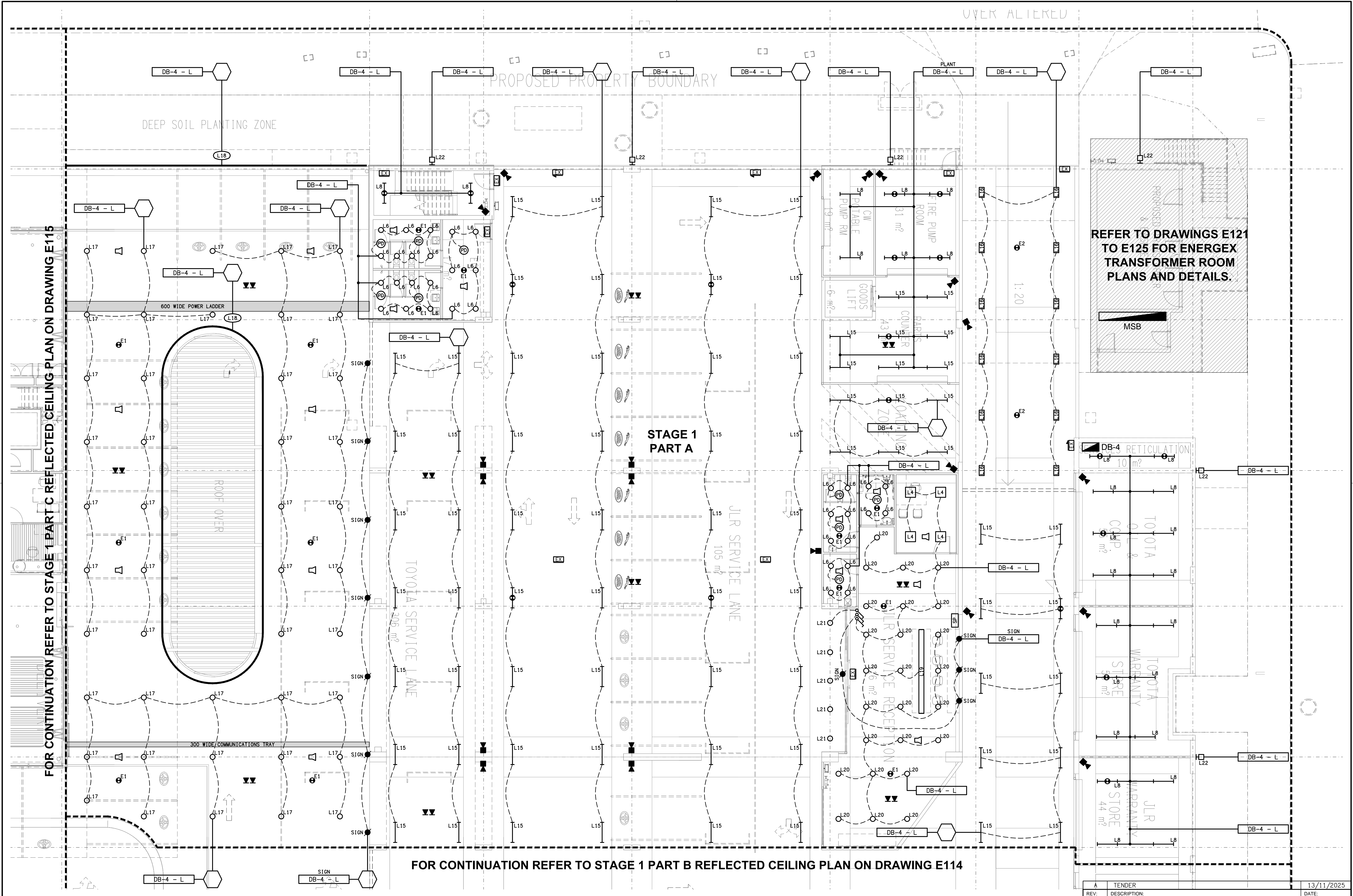
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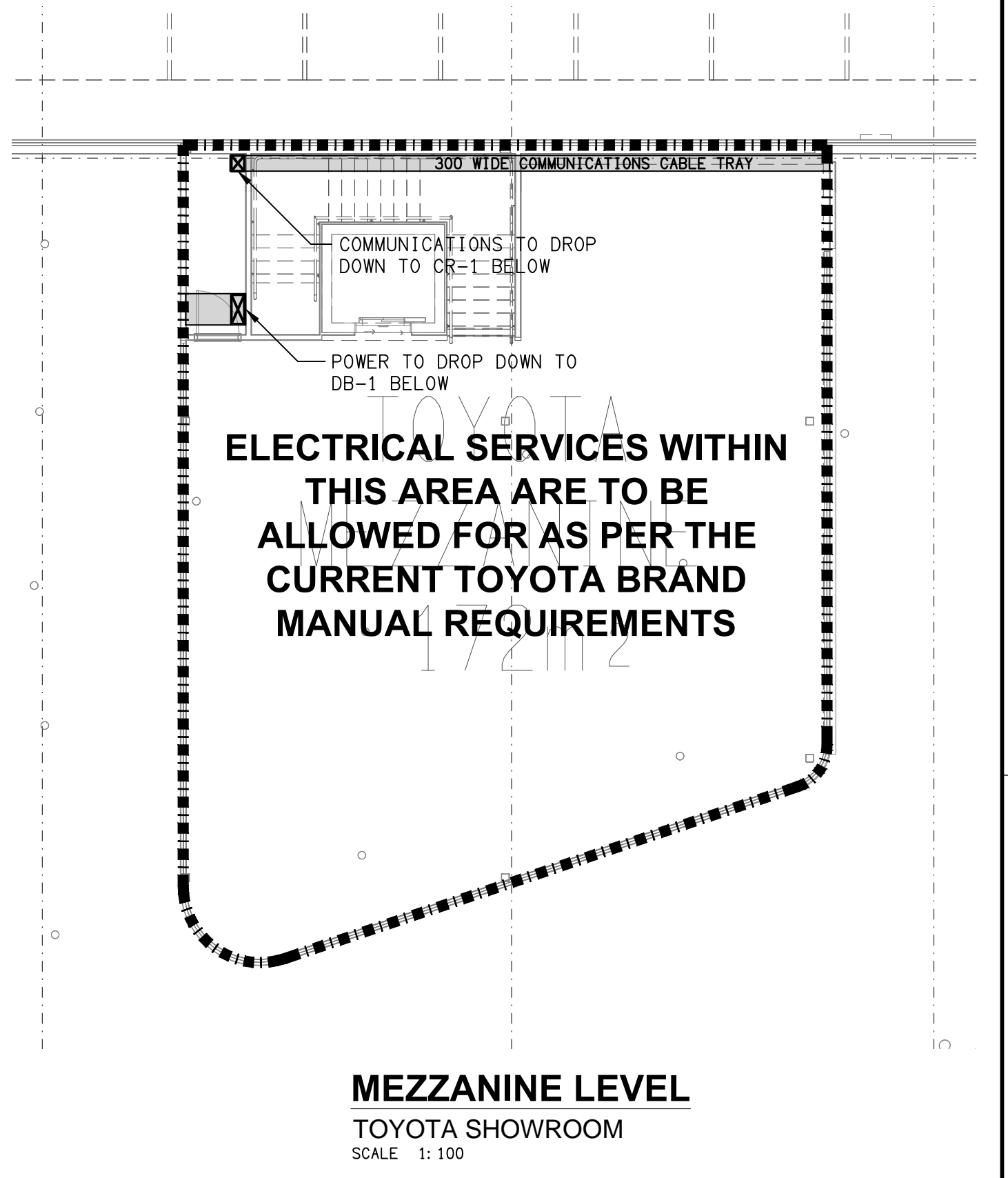
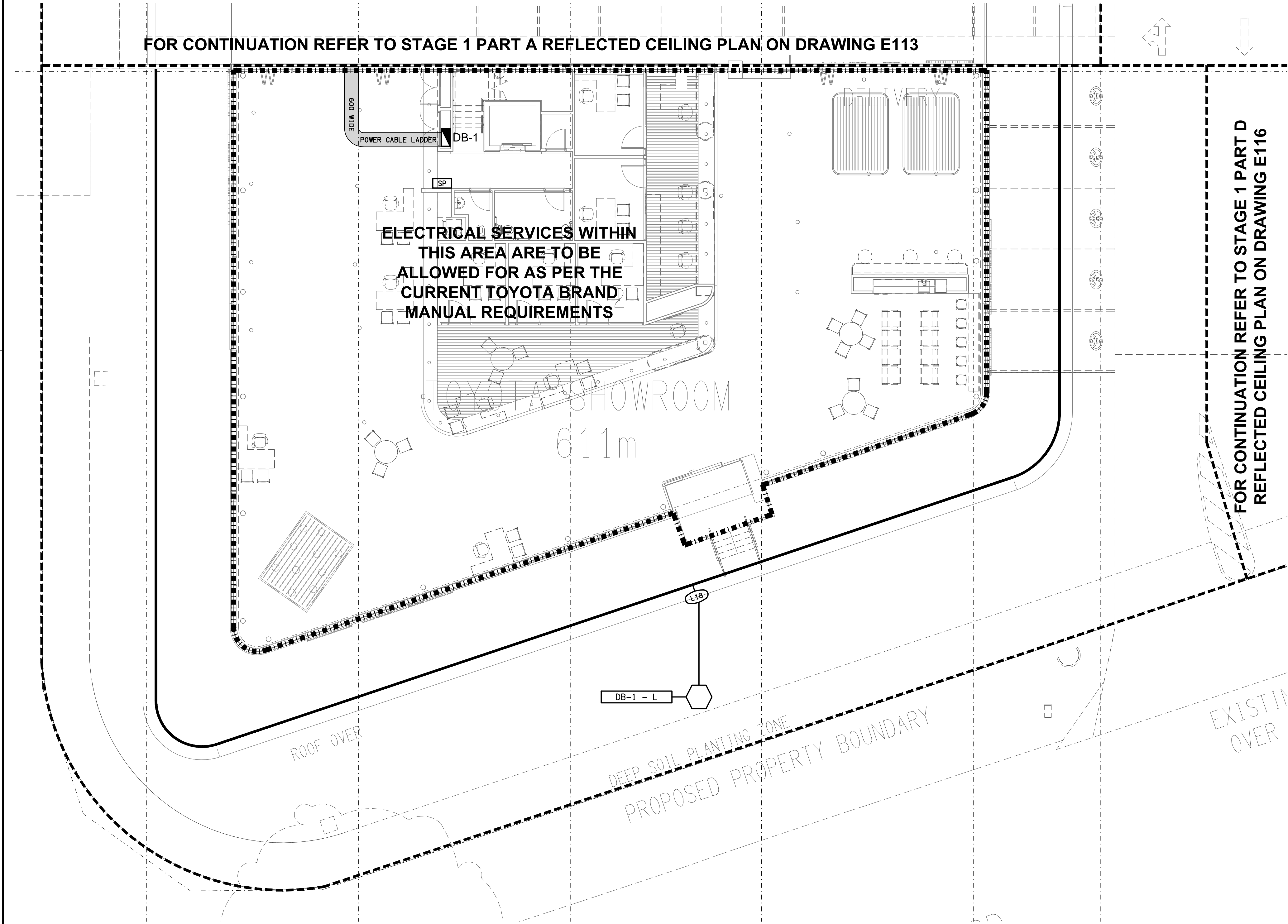
PROJECT:
EAGERS 151 SANDGATE ROAD, ALBION

BRISBANE, QUEENSLAND

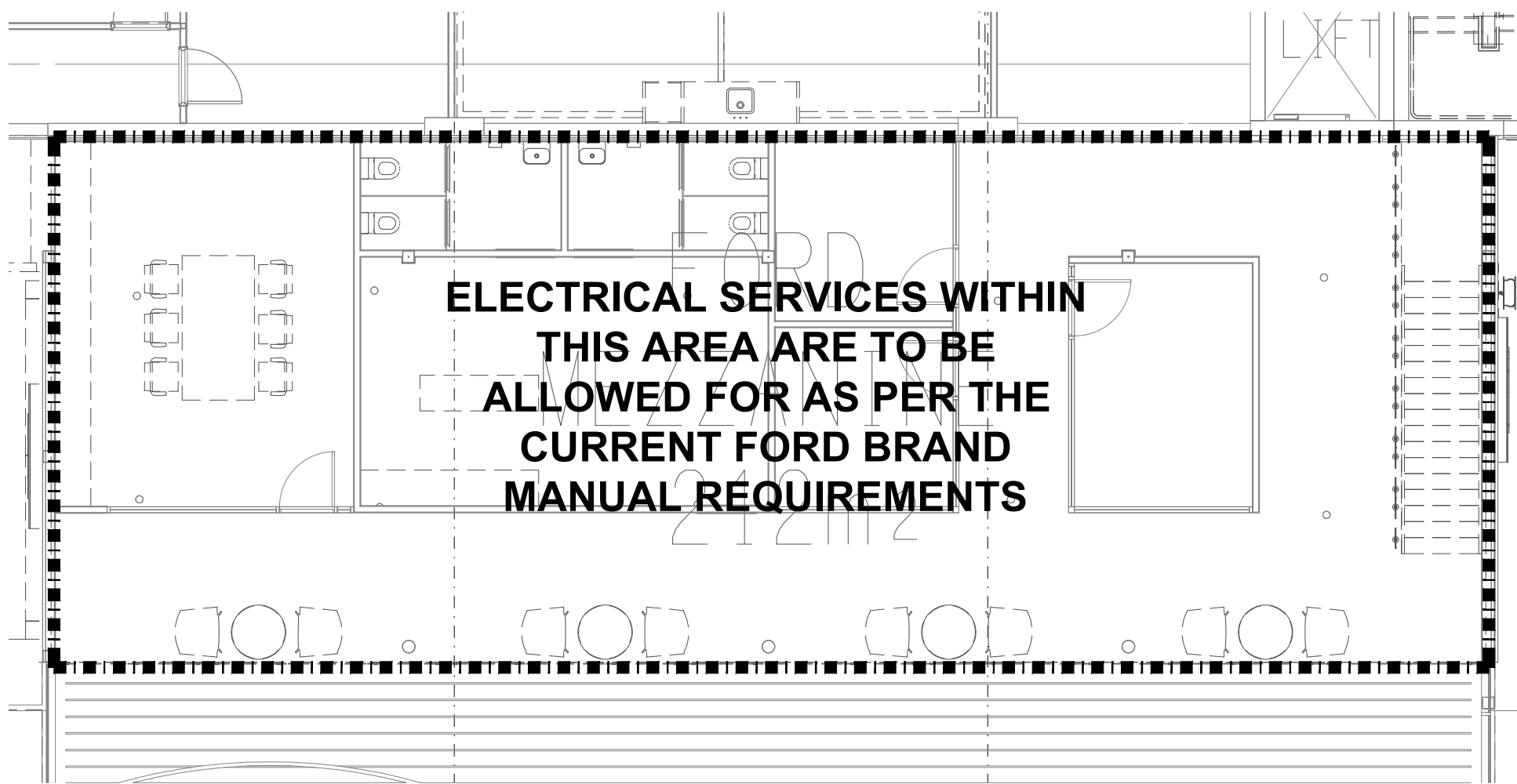
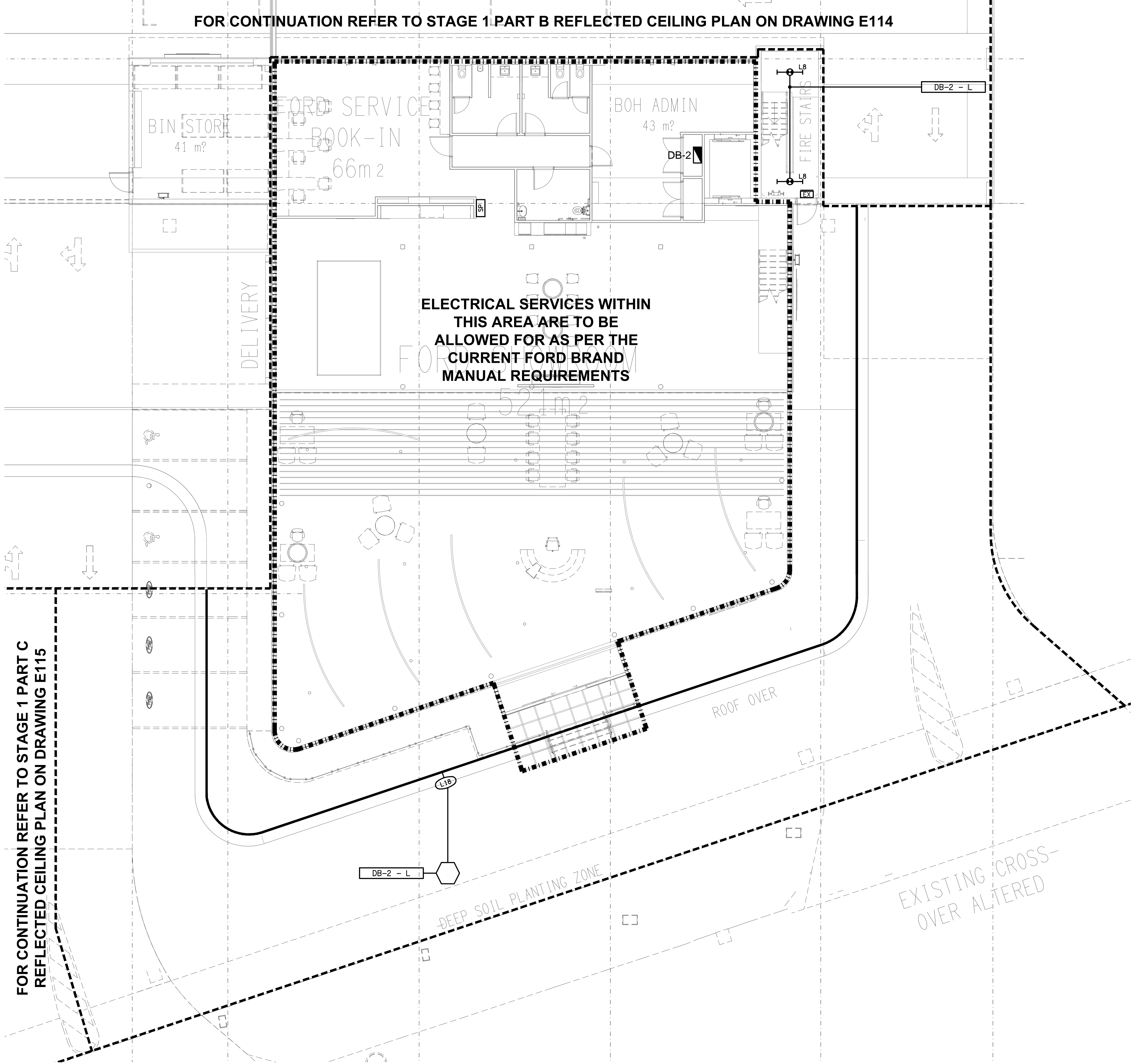
A	TENDER	13/11/2025
REV:	DESCRIPTION:	DATE:

DRAWING: ELECTRICAL SERVICES STAGE 1 ROOF LEVEL PART C FLOOR PLAN	PROJECT NO: C3531a	DRAWING NO: E112	REVISION: A
SCALE: 1:200	AT A1		





FOR CONTINUATION REFER TO STAGE 1 PART B REFLECTED CEILING PLAN ON DRAWING E114



MEZZANINE LEVEL
FORD SHOWROOM
SCALE 1:100

FOR CONTINUATION REFER TO STAGE 1 PART C
REFLECTED CEILING PLAN ON DRAWING E115

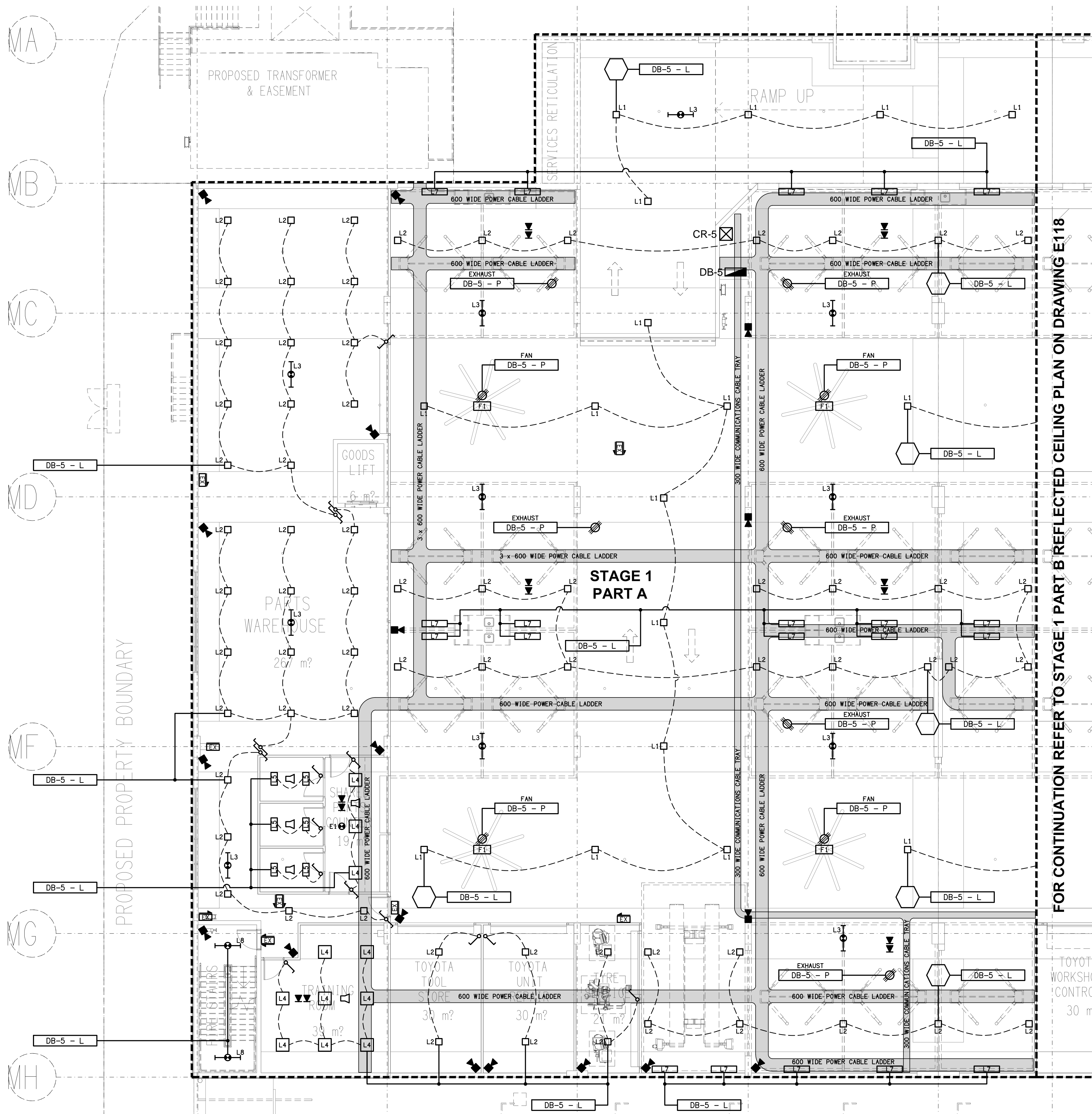
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PROJECT:
EAGERS 151 SANDGATE ROAD, ALBION
BRISBANE, QUEENSLAND

A	TENDER	13/11/2025
REV:	DESCRIPTION:	DATE:
DRAWING:	ELECTRICAL SERVICES	
	STAGE 1 GROUND LEVEL	
	PART D REFLECTED CEILING PLAN	
SCALE:	PROJECT NO:	DRAWING NO:
1:100	AT A1	C3531a E116
		REVISION:
		A



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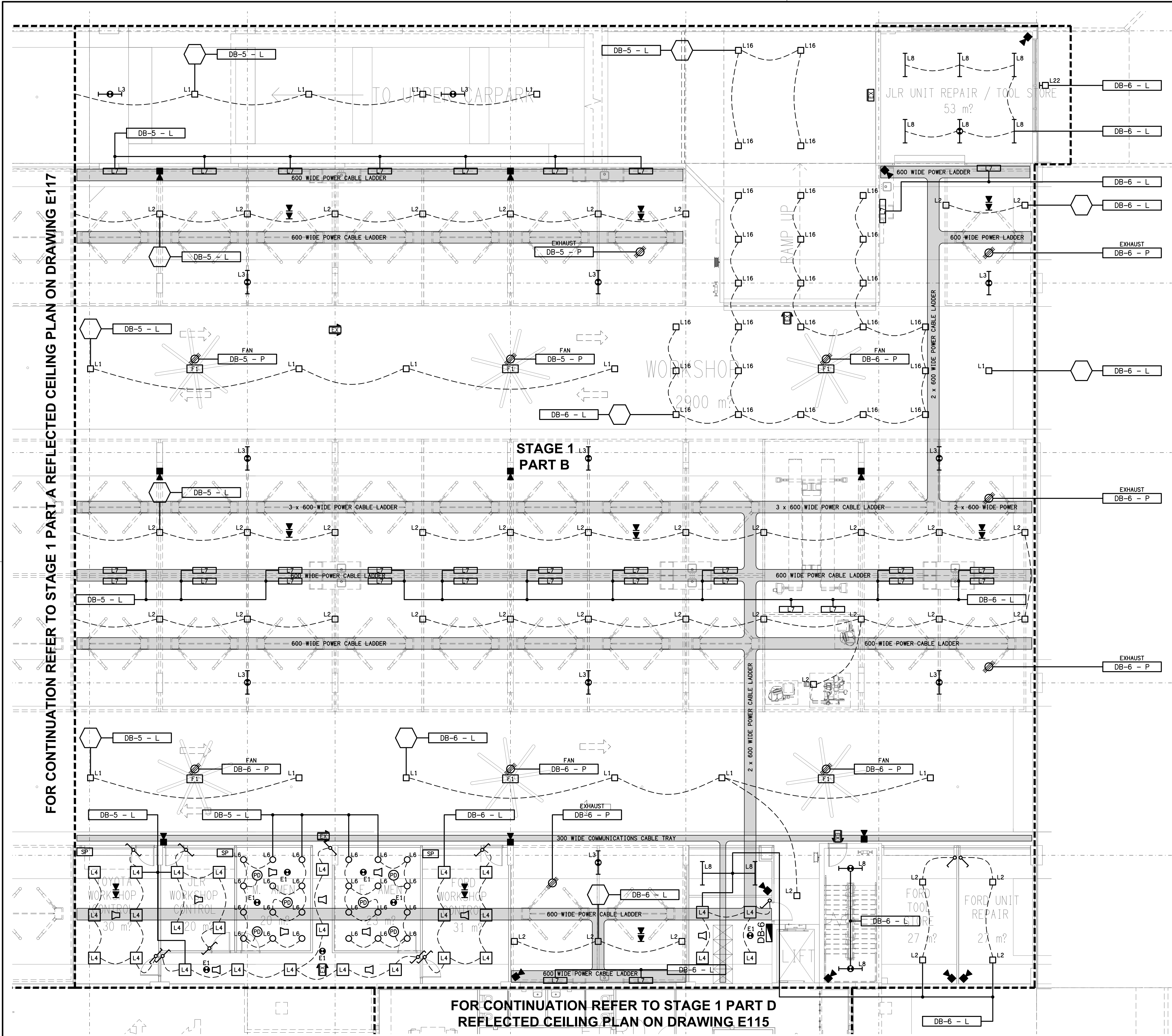
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PROJECT:
EAGERS 151 SANDGATE ROAD, ALBION

BRISBANE, QUEENSLAND

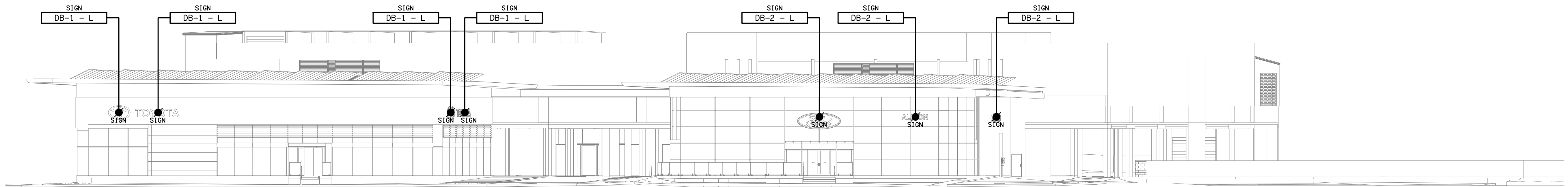
A	TENDER	13/11/2025
REV.	DESCRIPTION:	DATE:

DRAWING: ELECTRICAL SERVICES STAGE 1 LEVEL 1 PART A REFLECTED CEILING PLAN	PROJECT NO: C3531a	DRAWING NO: E117	REVISION: A
SCALE: 1:100	AT A1		

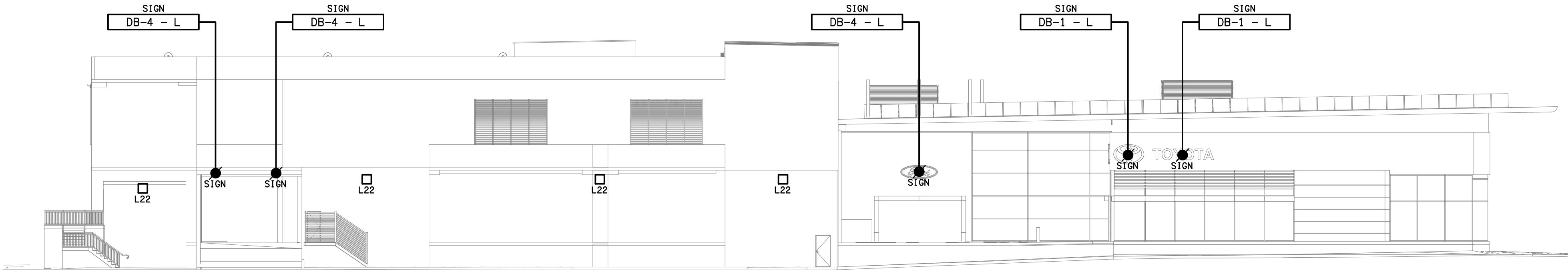


FOR CONTINUATION REFER TO STAGE 1 PART A REFLECTED CEILING PLAN ON DRAWING E117

FOR CONTINUATION REFER TO STAGE 1 PART D
REFLECTED CEILING PLAN ON DRAWING E115

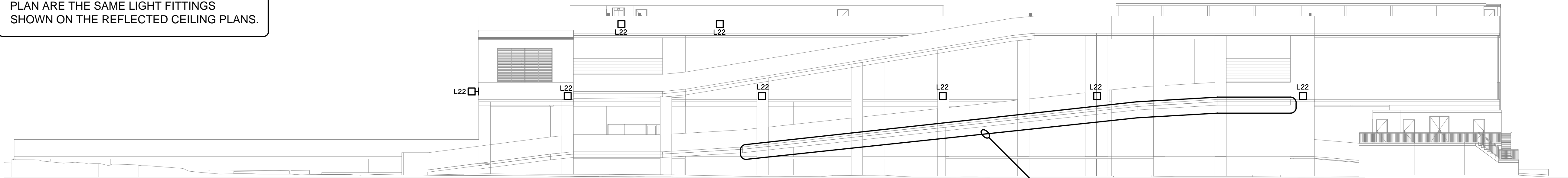


SANDGATE ROAD
STAGE 1 EXTERNAL BUILDING ELEVATION
SCALE 1:200

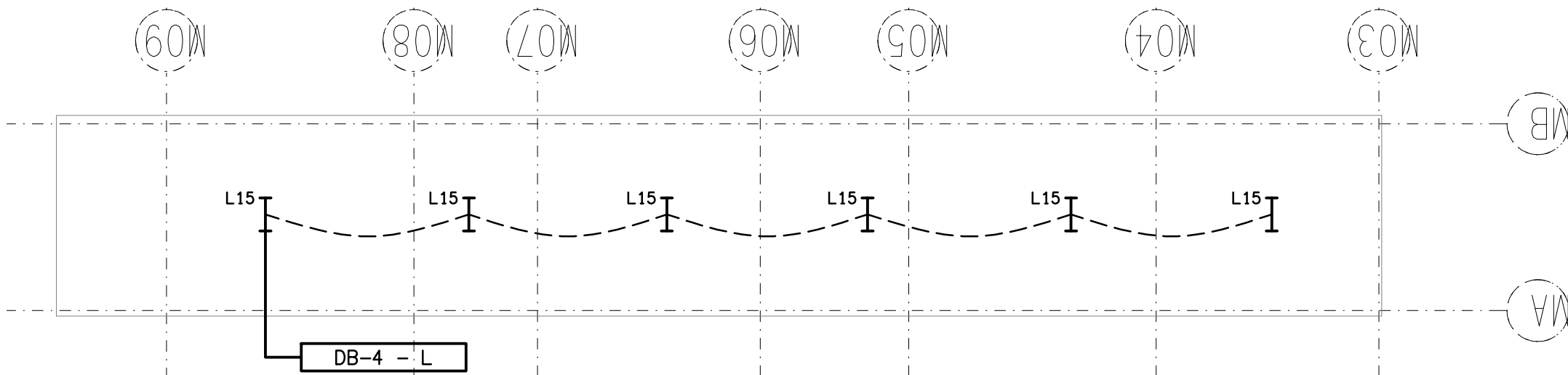


COLLINGWOOD STREET
STAGE 1 EXTERNAL BUILDING ELEVATION
SCALE 1:200

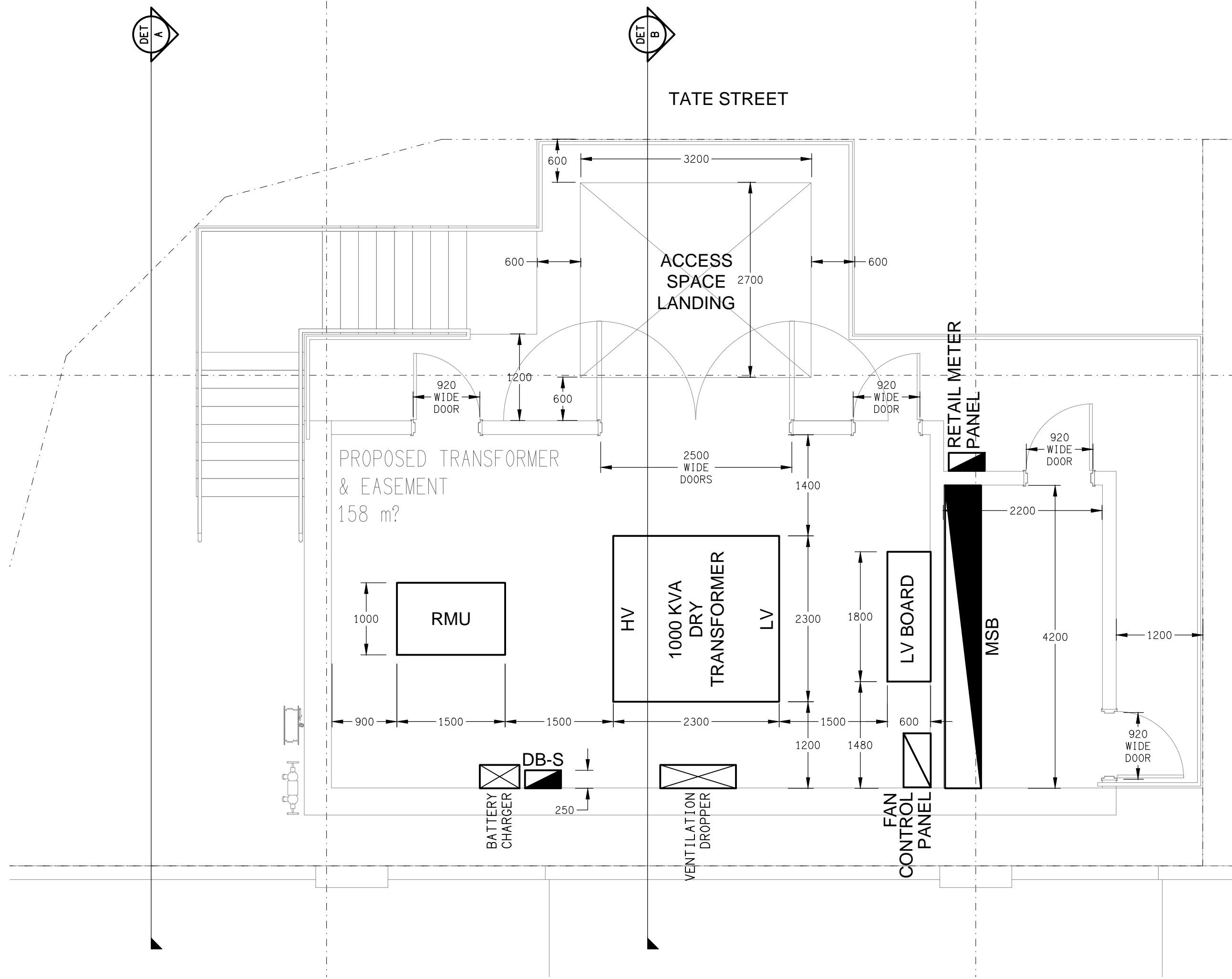
NOTE:
THE L22 LIGHT FITTINGS SHOWN ON THIS
PLAN ARE THE SAME LIGHT FITTINGS
SHOWN ON THE REFLECTED CEILING PLANS.



TATE STREET
STAGE 1 EXTERNAL BUILDING ELEVATION
SCALE 1:200



LOWER RAMP PLAN
LIGHTING LAYOUT
SCALE 1:200



DETAIL PLAN
TRANSFORMER ROOM EQUIPMENT
SCALE 1: 50

▽ RL 14, 600 PARKING
R.L. 14600

▽ RL 8, 800 WORKSHOP
R.L. 8800

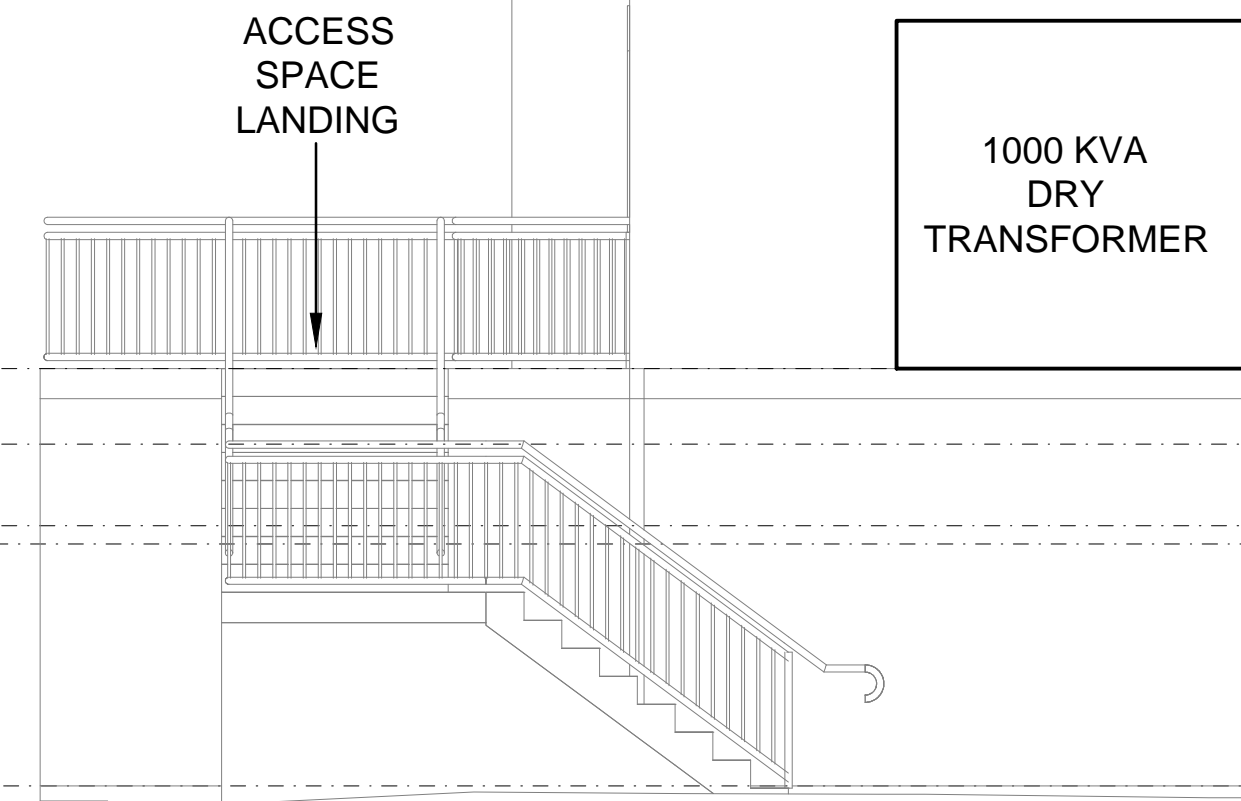
▽ SUBSTATION FFL R.L. 5000

▽ FLOOD LEVEL R.L. 4460

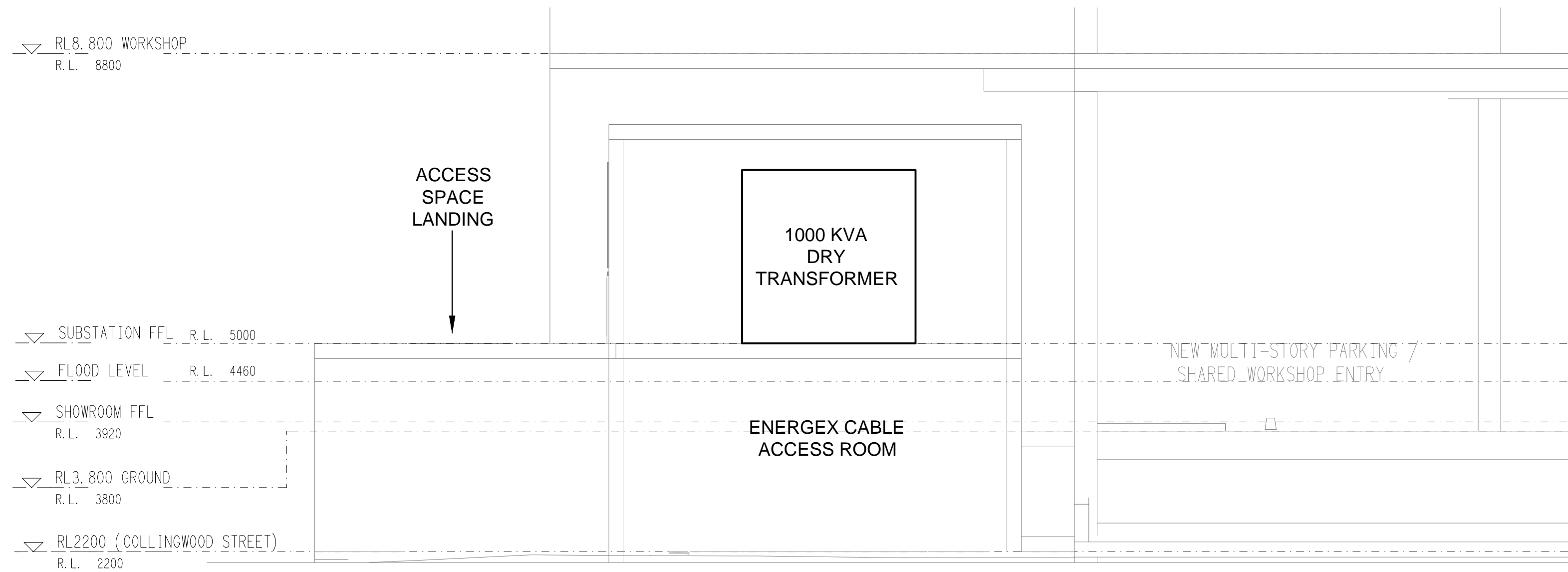
▽ SHOWROOM FFL
R.L. 3920

▽ RL 3, 800 GROUND
R.L. 3800

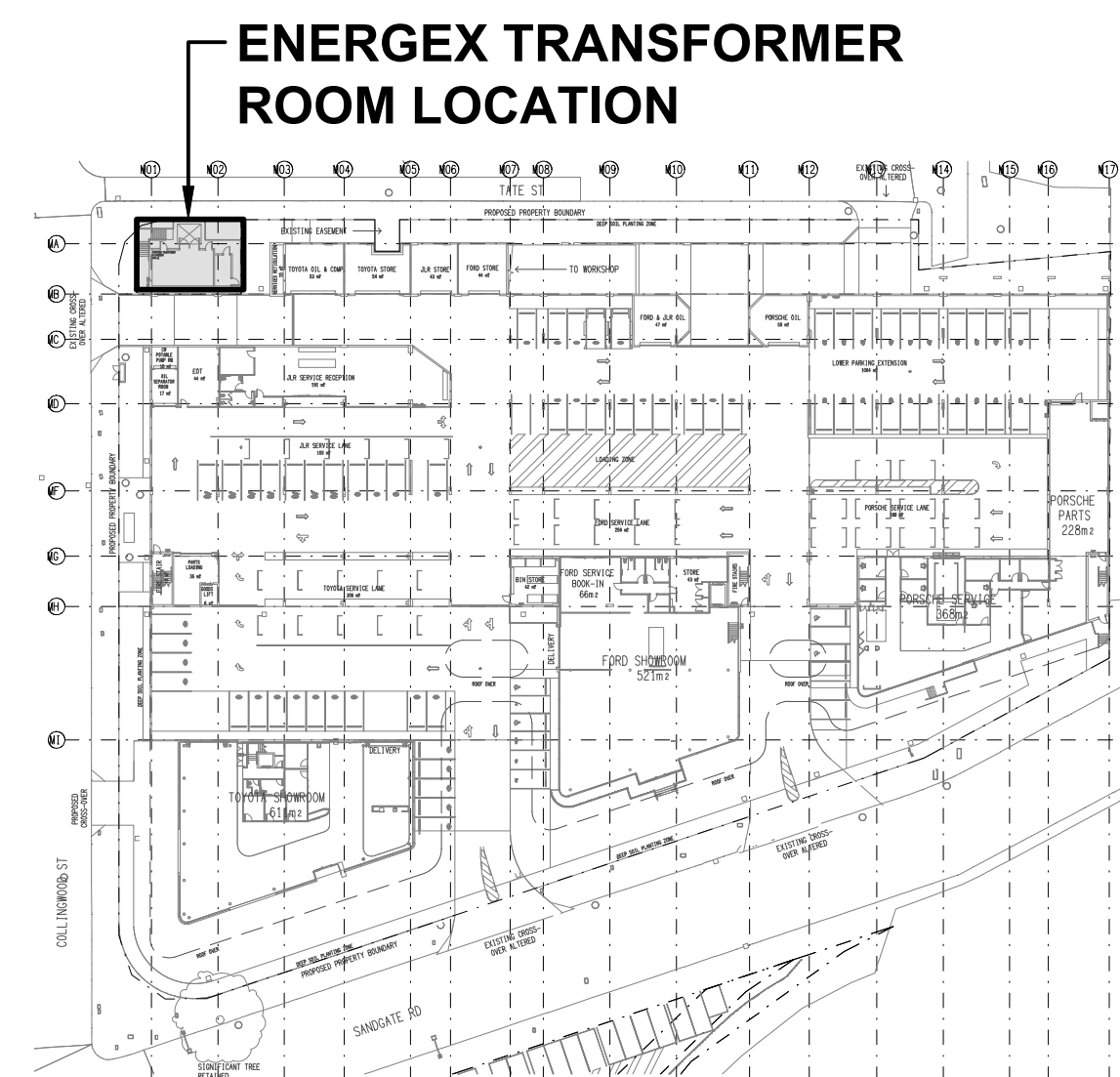
▽ RL 2200 (COLLINGWOOD STREET)
R.L. 2200



DETAIL A
TRANSFORMER ROOM SECTION VIEW
SCALE 1: 50



DETAIL B
TRANSFORMER ROOM SECTION VIEW
SCALE 1: 50



LOCATION PLAN
ENERGEX TRANSFORMER ROOM
SCALE 1: 1000

NOTES

CONSTRUCTION

1. ALL EMF SHIELDING IS TO BE INSTALLED OUTSIDE OF THE SUBSTATION
2. THE FIRST POINT OF CALL FOR CONSTRUCTION QUERIES IS THE ELECTRICAL DESIGN GROUP. PH. (07) 3278 4375
BRISBANE@EDG.NET.AU
3. ENERGEX IS TO INSPECT AND APPROVE THE SUBSTATION AND CABLE ROOM 12 WEEKS PRIOR TO THE DATE SUPPLY IS REQUIRED. ONCE APPROVED BY ENERGEX THE ENERGEX SUBSTATION AND CABLE ROOM ARE TO BE HANDED OVER TO ENERGEX

NOTE

EQUIPMENT SCHEDULE

1. REFER TO THE EQUIPMENT SCHEDULE FOR COMPONENT DESCRIPTIONS AND ADDITIONAL REQUIREMENTS.

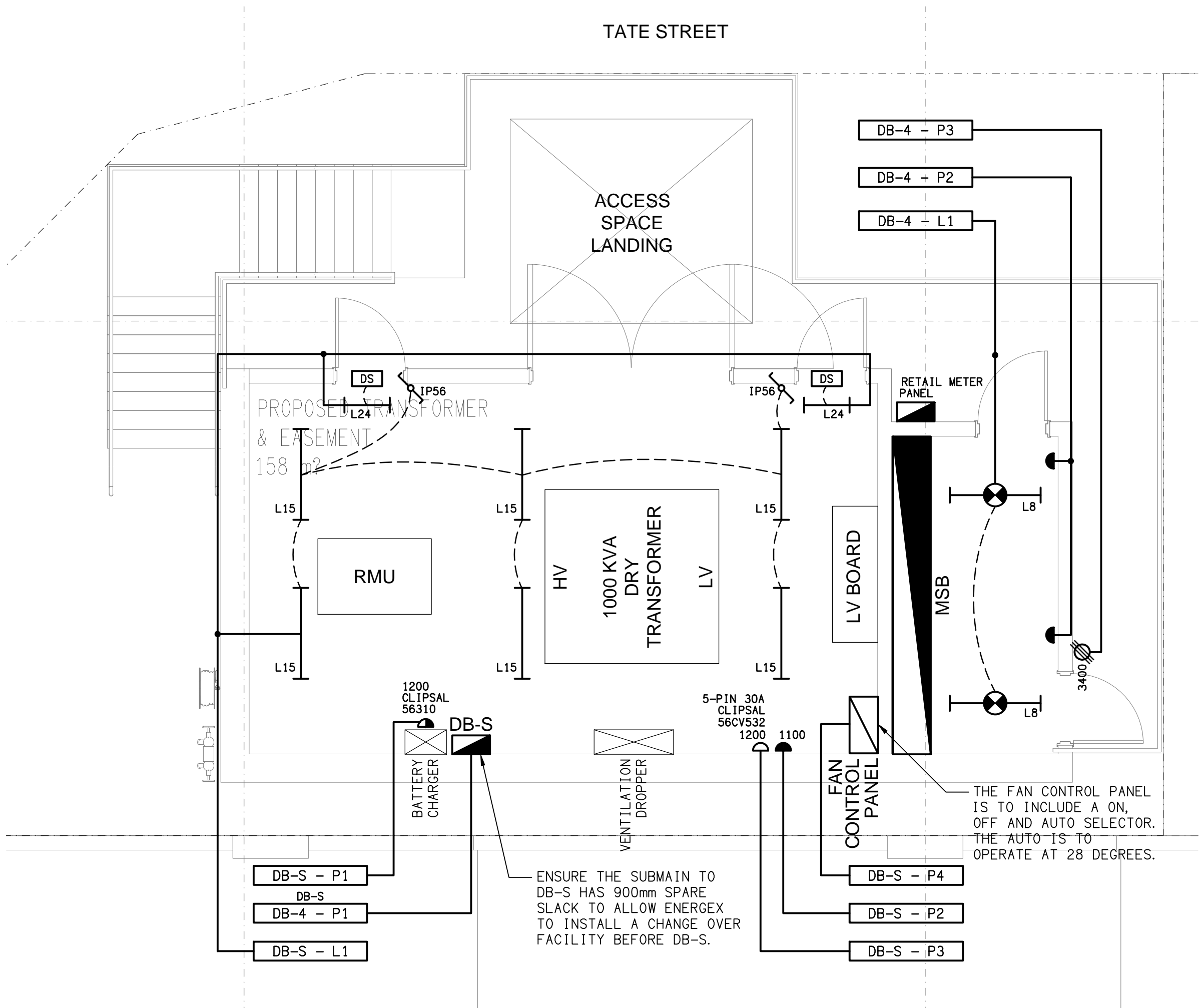
LEGEND

FOR ENERGEX USE ONLY

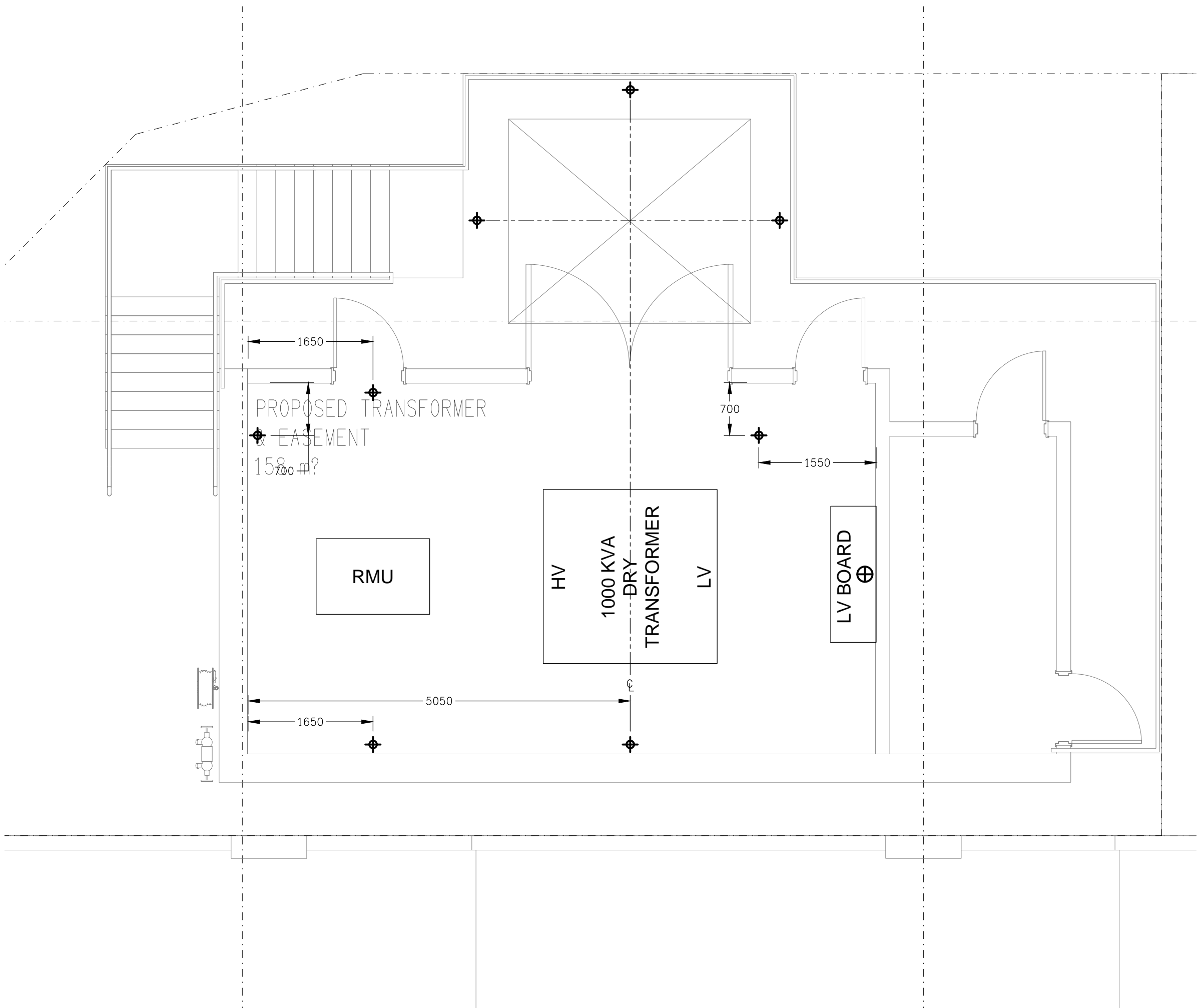
- SINGLE POWER OUTLET.
- DOUBLE POWER OUTLET.
- 3 PHASE SOCKET OUTLET.
- ⊘ 3-PHASE ISOLATOR.
- ⚡ TWO-WAY LIGHT SWITCH.
- DS TWO-WAY DOOR SWITCH.
- L8: 1200 LONG 36W LED BATTEN C/W MOVEMENT SENSOR, SURFACE MOUNT.
- L15: 1200 LONG 36W LED BATTEN, SURFACE MOUNT.
- L24: 600 LONG 20W LED BATTEN, SURFACE MOUNT.

LEGEND

- ⊕ CEILING MOUNTED LIFTING EYE ABOVE LV BOARD, REFER DRAWING E125 DETAIL (4).
- ⚓ FLOOR ANCHOR BY BUILDER, REFER DRAWING E125 DETAIL (3).



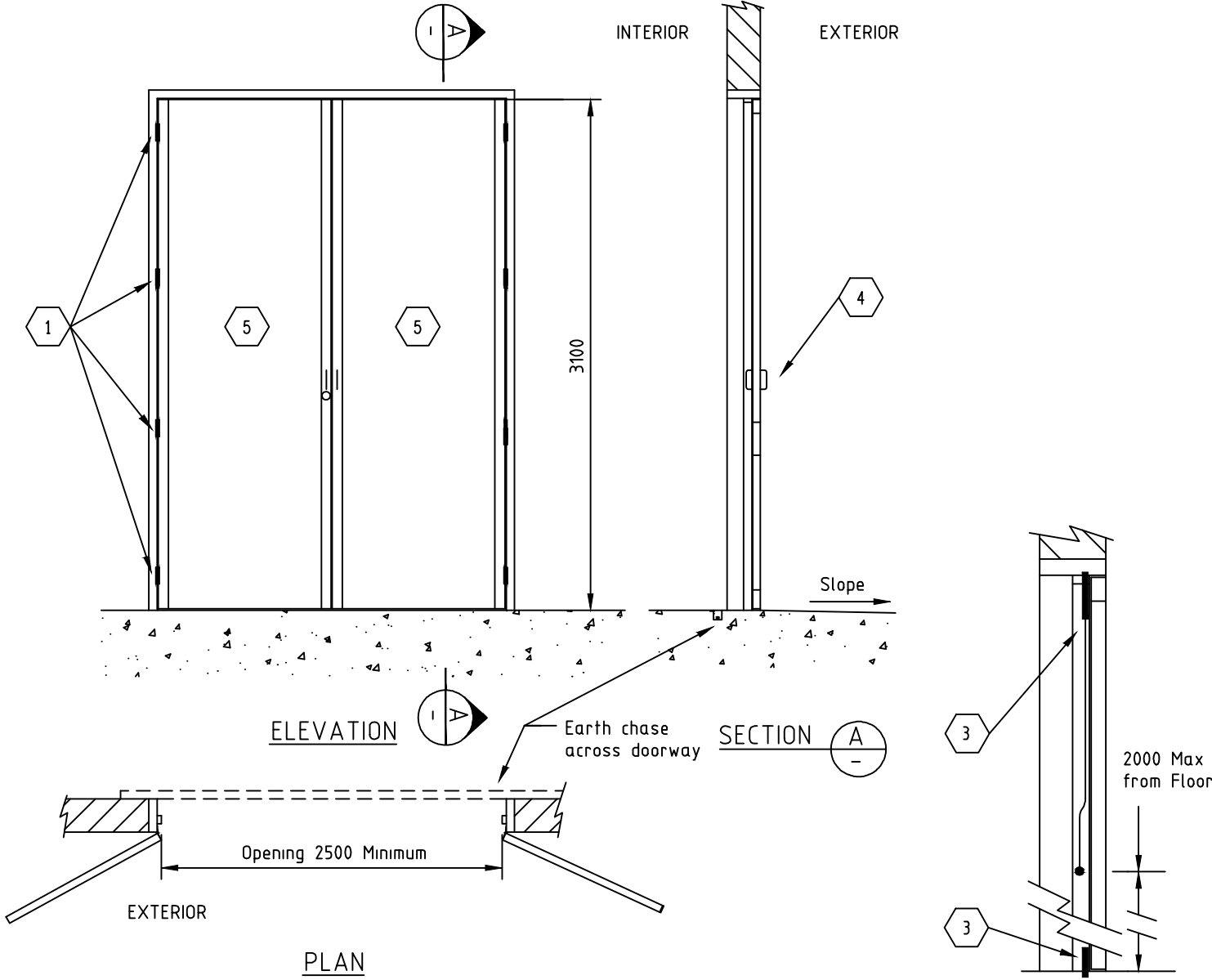
ELECTRICAL PLAN
TRANSFORMER ROOM
SCALE 1: 50



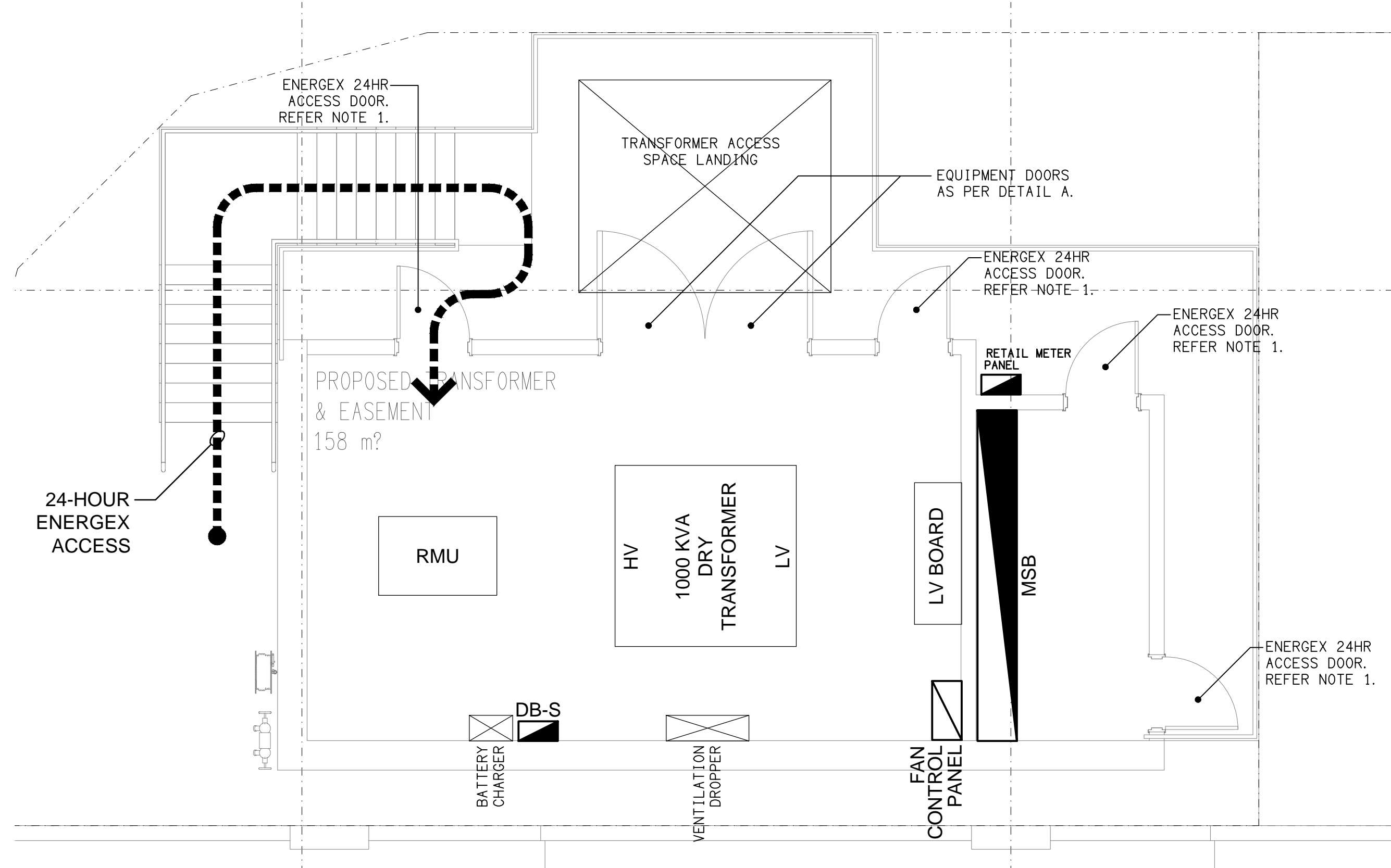
ANCHOR & PULLING EYE PLAN
TRANSFORMER ROOM
SCALE 1: 50

NOTES
EQUIPMENT DOOR MATERIALS

1. HEAVY DUTY HINGES. MINIMUM OF 4 HINGES REQUIRED, WELDED (NOT RIVETED) TO FRAME.
2. ONE DOOR MUST BE FITTED WITH AN EXTERNAL LOCKWOOD 570 SERIES KEYED OPERATING LOCK AND A HANDLE ON THE INSIDE. THE OTHER DOOR MUST BE FITTED WITH A SHOOTING BOLT TOP & BOTTOM. THE SHOOTING BOLT HANDLE IS TO BE A MAXIMUM OF 2000 FROM THE FLOOR.
3. ONE LEAF TO BE SECURED WITH STANDING BOLT (TOP AND BOTTOM). THE OTHER DOOR LEAF IS TO BE FITTED WITH A LOCKWOOD 570 SERIES OR SIMILAR.
4. 'D' HANDLES TO BE FITTED TO THE INTERIOR AND EXTERIOR OF BOTH DOORS.
5. 2 HR FIRE RATED DOORS.



DETAIL A
EQUIPMENT DOOR MATERIALS
NOT TO SCALE



ACCESS PLAN
TRANSFORMER ROOM
SCALE 1:50

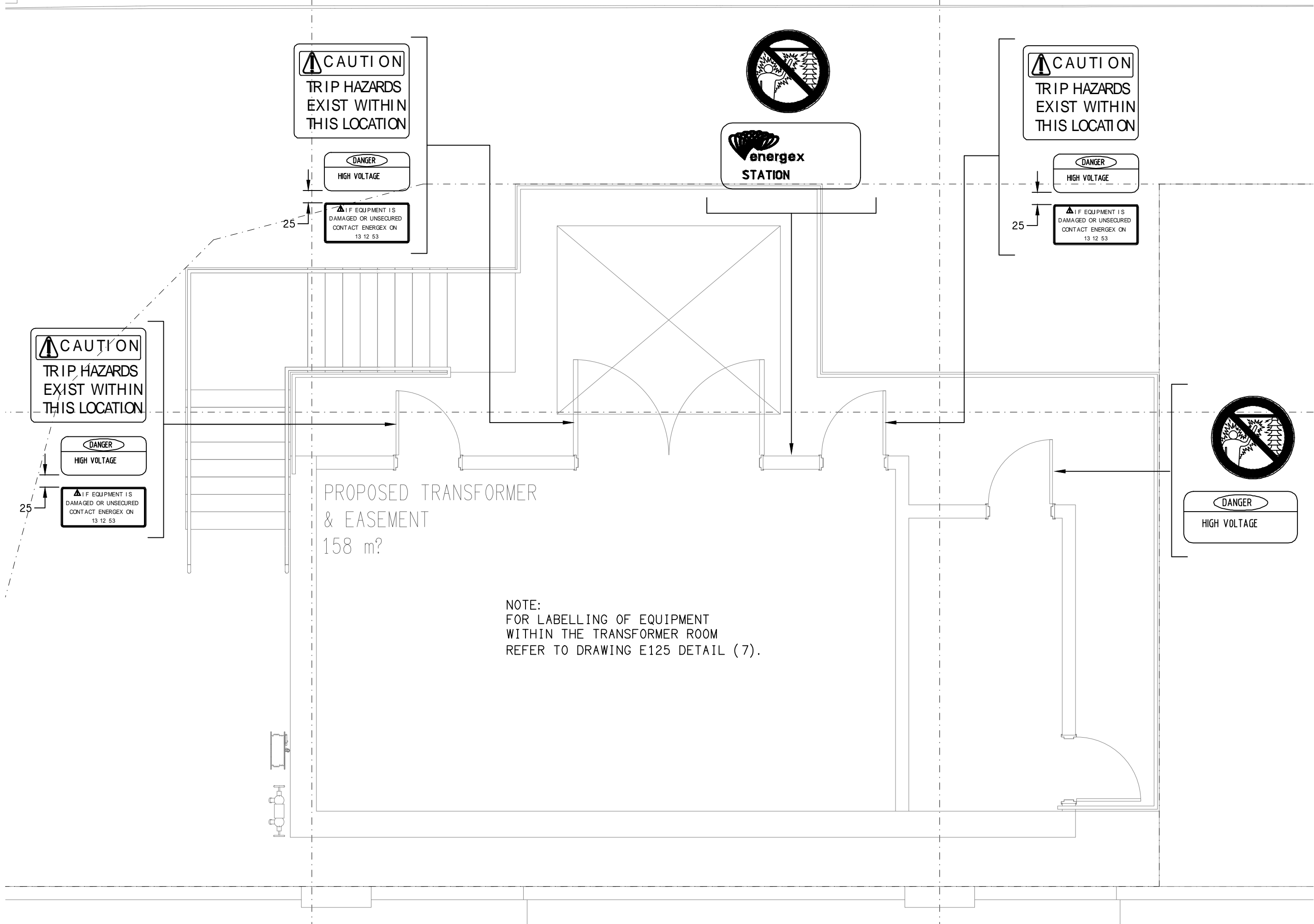
NOTES
ACCESS & FINISHES

1. PROVIDE EACH ACCESS DOOR WITH A LOCKWOOD BODY 3572 SERIES STOREROOM LOCKING LATCH WITH AN OVAL CYLINDER AVAILABLE FROM ENERGEX STORES TO SUIT 570 CYLINDERS. EACH ACCESS DOOR IS REQUIRED TO BE OPERATED BY KEY FROM THE OUTSIDE WITH THE OUTSIDE HANDLE ALWAYS BEING RIGID, AND WITH LEVEL HANDLE OR SIMILAR ON THE INSIDE. THE LATCH MUST BE FITTED SO THAT THERE IS NO LESS THAN 10mm ENGAGEMENT OF THE LATCH BOLT INTO THE STRIKER PLATE, WHEN THE DOOR IS IN THE CLOSED POSITION. THE LATCH MUST HAVE NO LESS THAN 65mm BACK SET. EACH DOOR IS ALSO TO BE FITTED WITH A PUSH PLATE AND 200mm D HANDLE ON THE OUTSIDE OF THE DOOR. DOORS TO BE A MINIMUM OF 820 x 2040. UNIMPEDED ACCESS TO ALL ENERGEX SUBSTATIONS MUST BE MAINTAINED 24 HOURS A DAY, 7 DAYS A WEEK. EACH DOOR MUST BE FITTED WITH APPROPRIATE SAFETY SIGNS, AS INDICATED BY AS3000 AND AS PER ENERGEX REQUIREMENTS. DOORS MUST SWING IN THEIR OWN FRAMES USING HEAVY DUTY NON-CORRODING METAL HINGES. 201 NIGHT LATCH OR 570 CYLINDER FOR INDOOR SUBSTATION DOORS WHERE ("OUTSIDE: OPENED BY KEY D-HANDLE ALWAYS RIGID. INSIDE: OPENED BY HANDLE AT ALL TIMES")
2. THE DEFINED FLOOD LEVEL FROM THE BRISBANE CITY COUNCIL FOR THE SITE IS RL TBA. THE SUBSTATION FLOOR LEVEL IS RL TBA.
3. STANDARD SUBSTATION SIGNS AND DANGER BOARDS WILL BE SUPPLIED AND INSTALLED BY ENERGEX.
4. PAINT ALL INTERNAL WALLS AND DOORS OF THE SUBSTATION AND THE CABLE PULLING ROOM FIRSTLY WITH A COAT OF ACRYLIC BASED FILLER/SEALER, THEN PAINTED TO BS 381C NO. 384 "LIGHT STRAW". THE CEILING IS TO BE COMPLETED WITH GLOSS / SEMI GLOSS CEILING WHITE. ALL EXPOSED NON-GALVANISED METAL MUST BE PRIMED WITH AN APPROPRIATE ETCH PRIMER AND FINISHED IN TWO (2) COATS OF GREY PAINT, EITHER ENAMEL OR ACRYLIC BASED. EXTERNAL DOORS CAN BE FINISHED IN COLOURS TO SUIT THE BUILDING DECOR. LOUVERS CAN BE FINISHED IN COLOURS TO SUIT THE BUILDING DECOR, HOWEVER IF THEY ARE TO BE LEFT IN NATURAL ALUMINIUM THEY MUST BE FINISHED WITH A GRADE A COATING OF CLEAR ANODISING, FOLLOWED BY A COAT OF CLEAR METHACRYLATE LACQUER OR EQUIVALENT. THE CONCRETE FORMWORK FINISH MUST BE CLASS 2 OR BETTER.
5. CRASH BARS ARE TO BE PROVIDED ON ALL PERSONAL ACCESS AND ESCAPE DOORS.

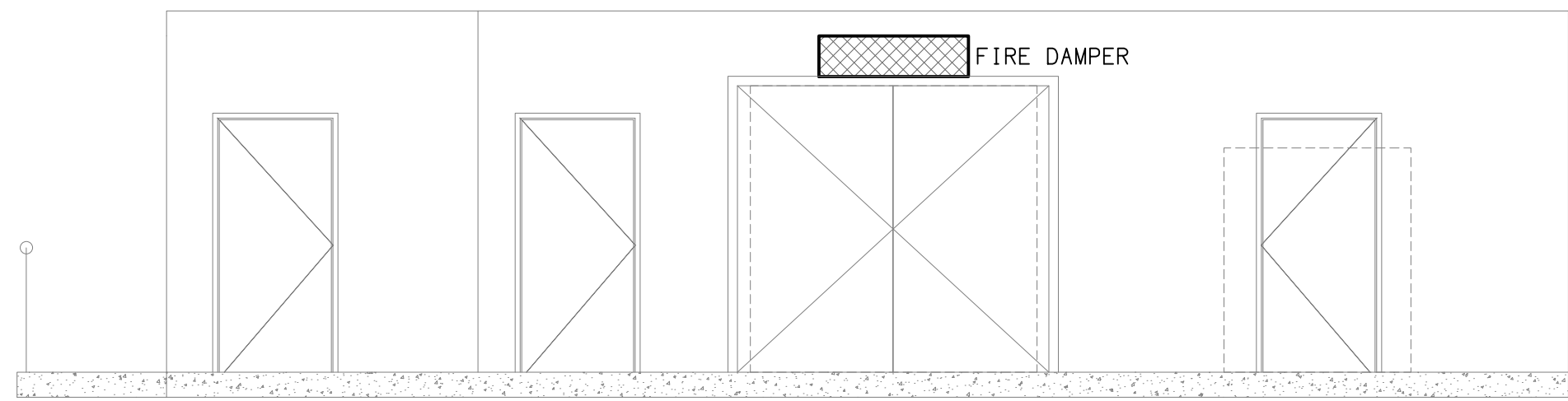
NOTES

- (1) Use this signage for indoor stations only.
- (2) Unless otherwise noted signs to be mounted 1500mm (To centre) above ground or floor level.
- (3) Station Numbers using "3M" 220 black SCOTCHCAL CAST VINYL to be ordered separately.
- (3) Caution Signs to be Mounted Under High Voltage Signs on Outside Doors and Centrally On Inside Doors.
- (4) Caution Labels to be mounted under the High Voltage Sign on both Outside and Inside of Doors

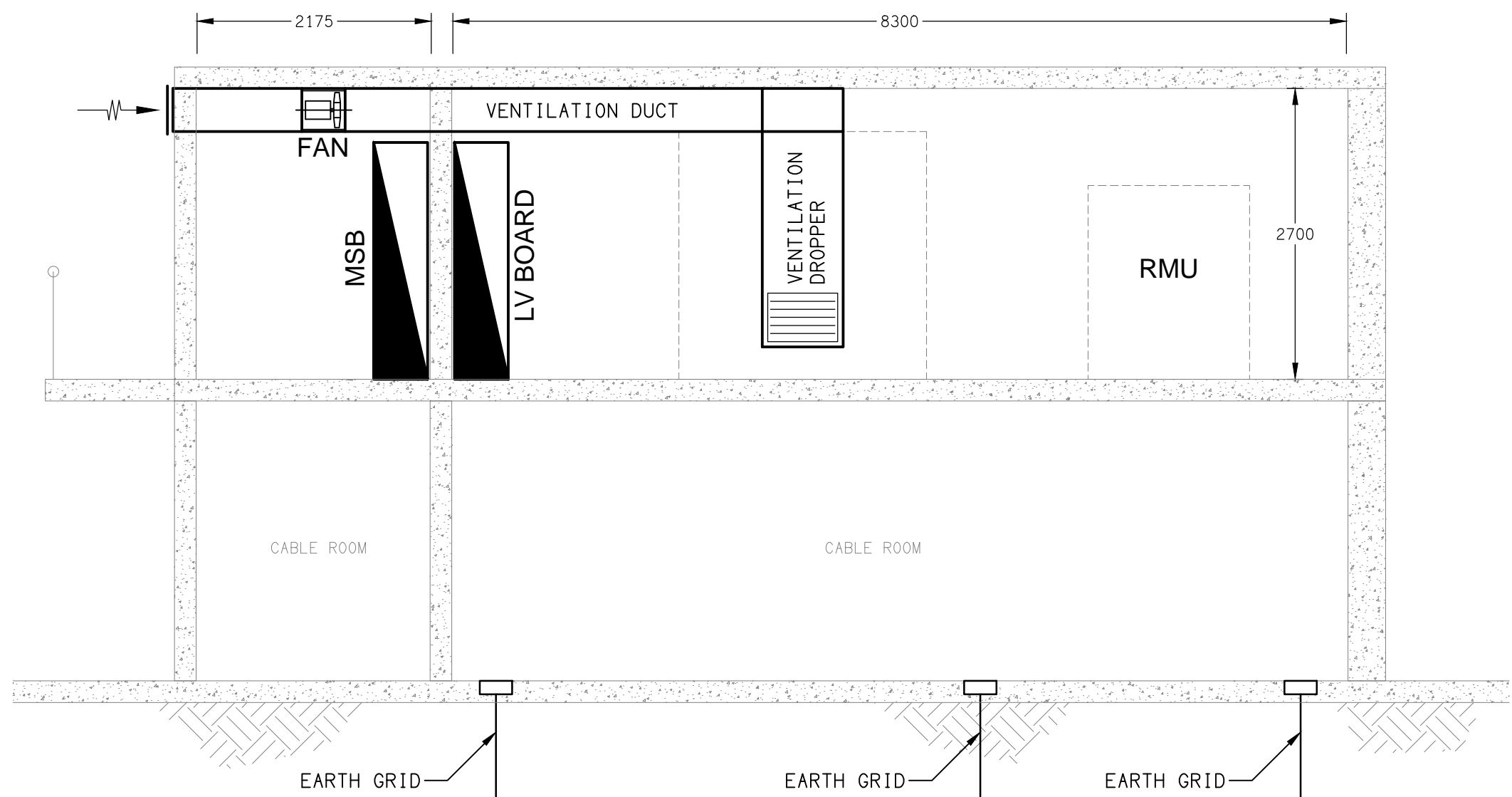
SIGN	Stock Code	QTY	SIGN	Stock Code	QTY
	12198	3		13652	2
	22094	3		12207	1
	12201	1	METAL FIXING SCREWS	15201	40
LETTER "S"	11649	1	MASONRY ANCHORS	4912	24
LETTER "G"	11637	1		20177	3
NUMBERS "1-0"	11621				
	11630				



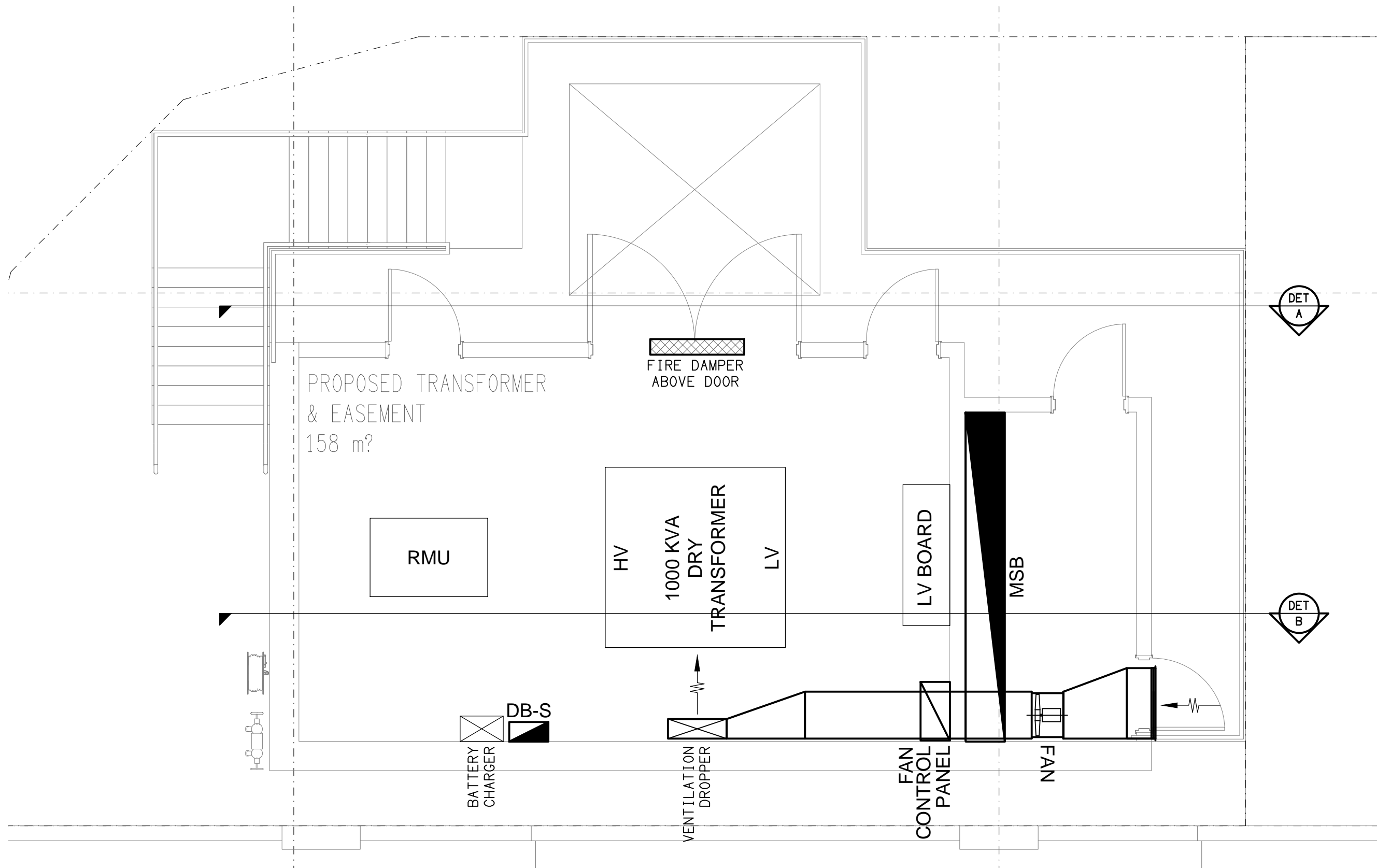
SIGNAGE PLAN
TRANSFORMER ROOM
SCALE 1:50



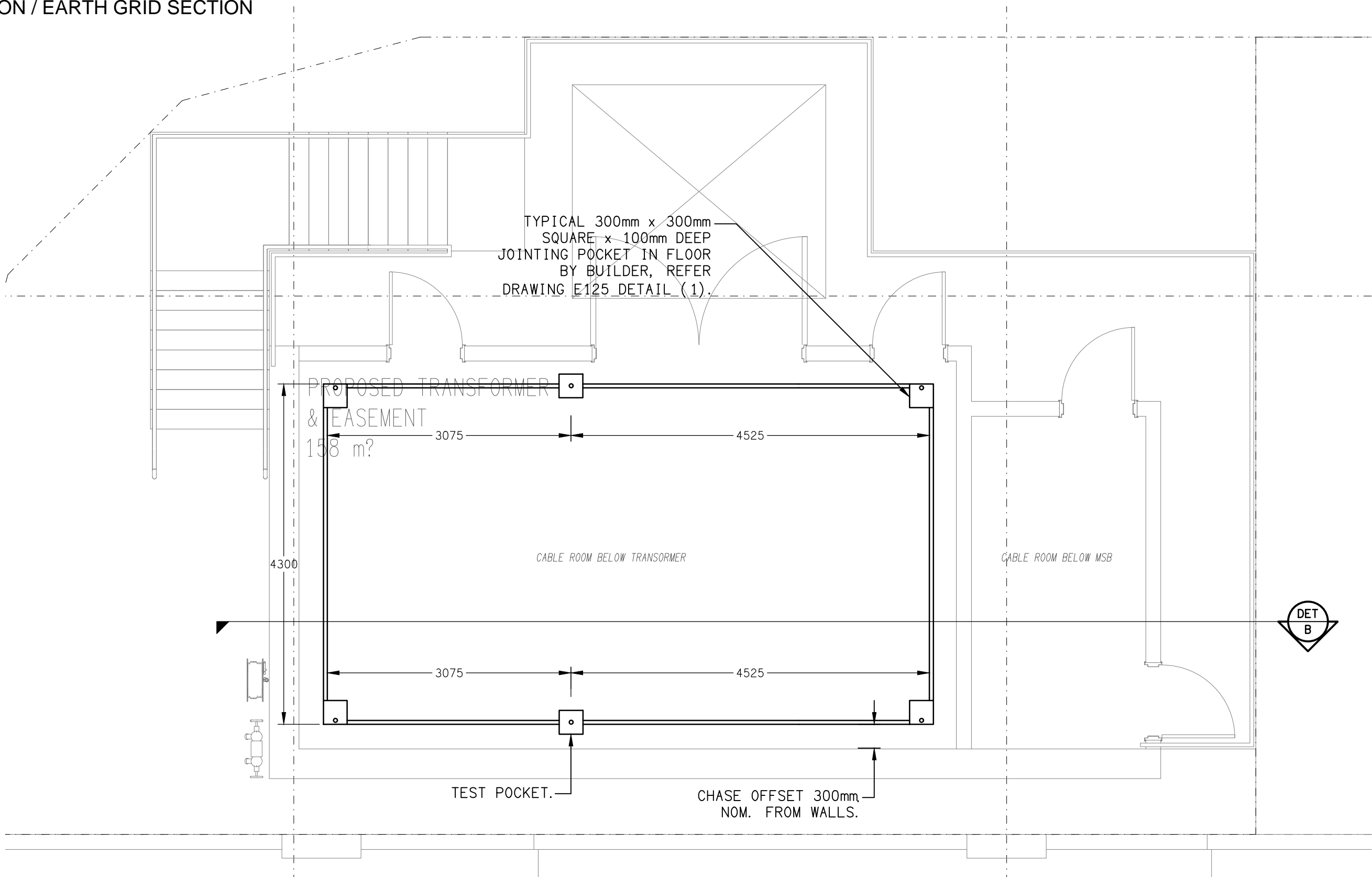
DETAIL A
TRANSFORMER ROOM VENTILATION SECTION
SCALE 1: 50



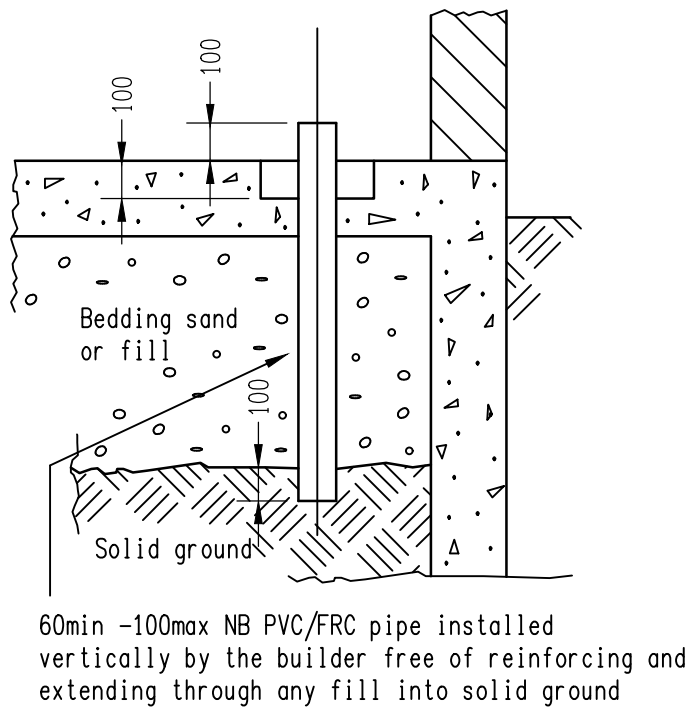
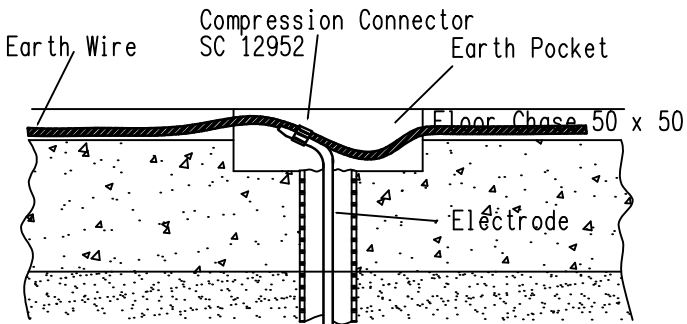
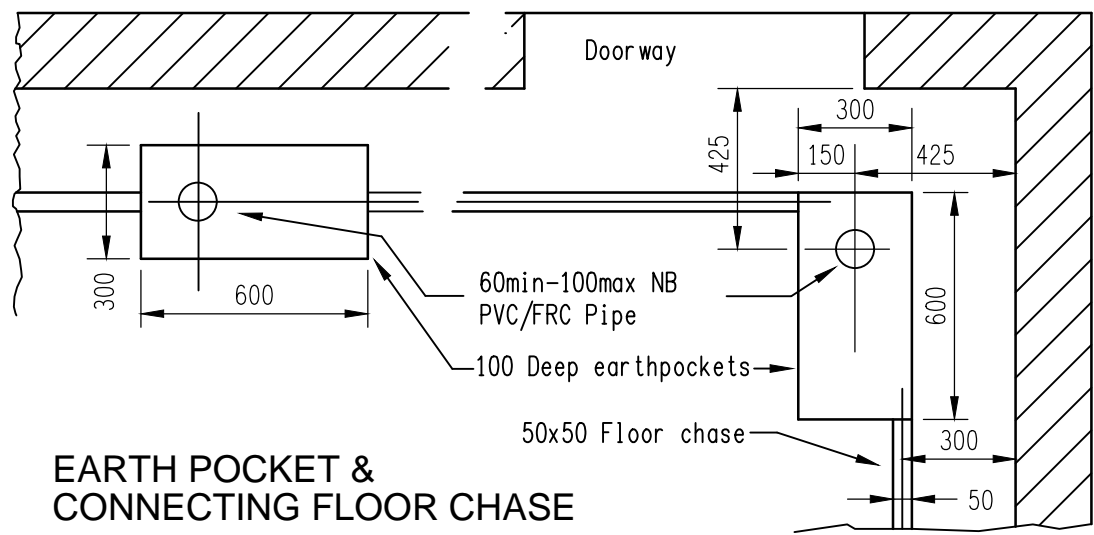
DETAIL B
TRANSFORMER ROOM VENTILATION / EARTH GRID SECTION
SCALE 1: 50



VENTILATION PLAN
TRANSFORMER ROOM
SCALE 1: 50

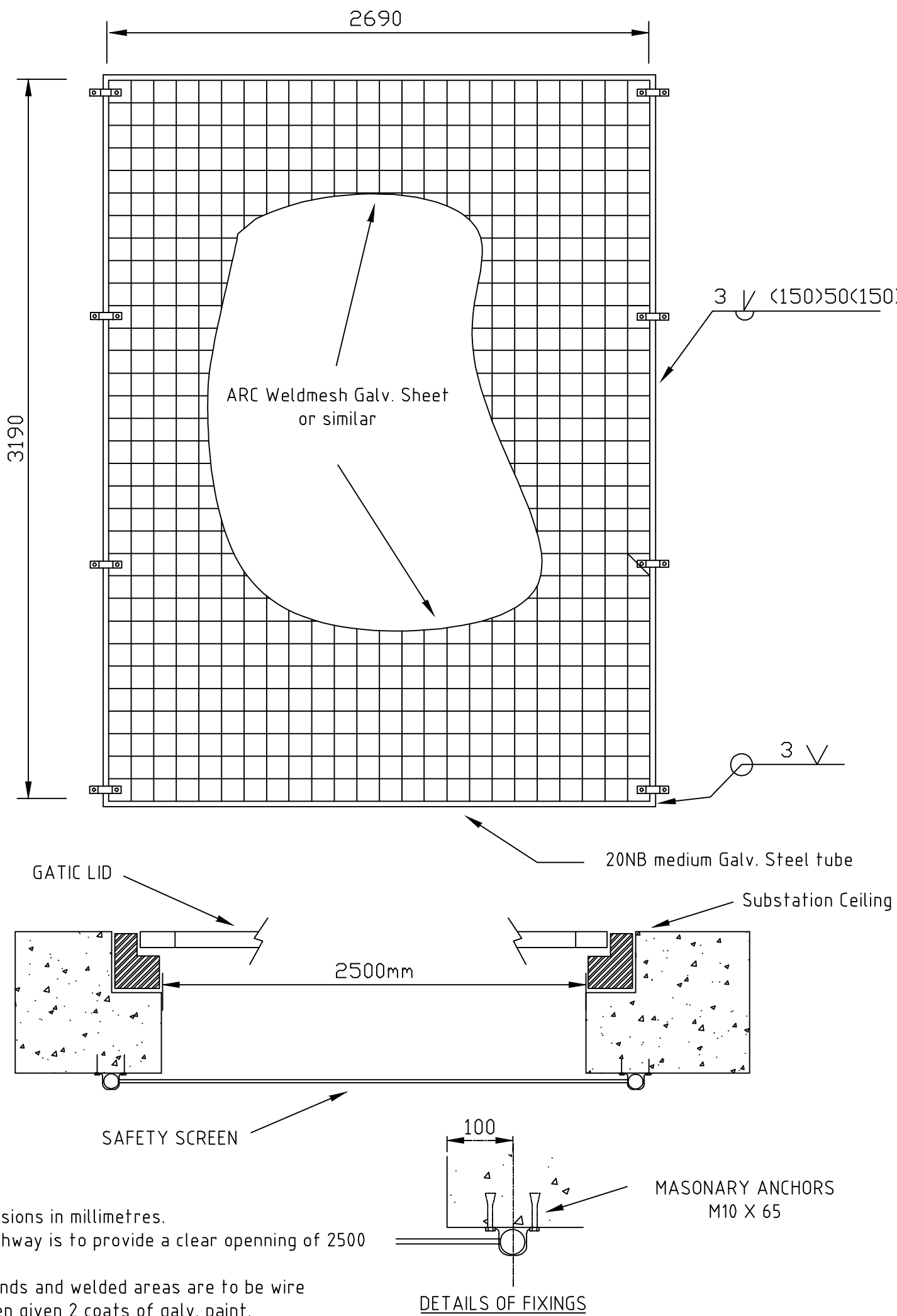


EARTH GRID PLAN
TRANSFORMER CABLE ROOM BELOW
SCALE 1: 50

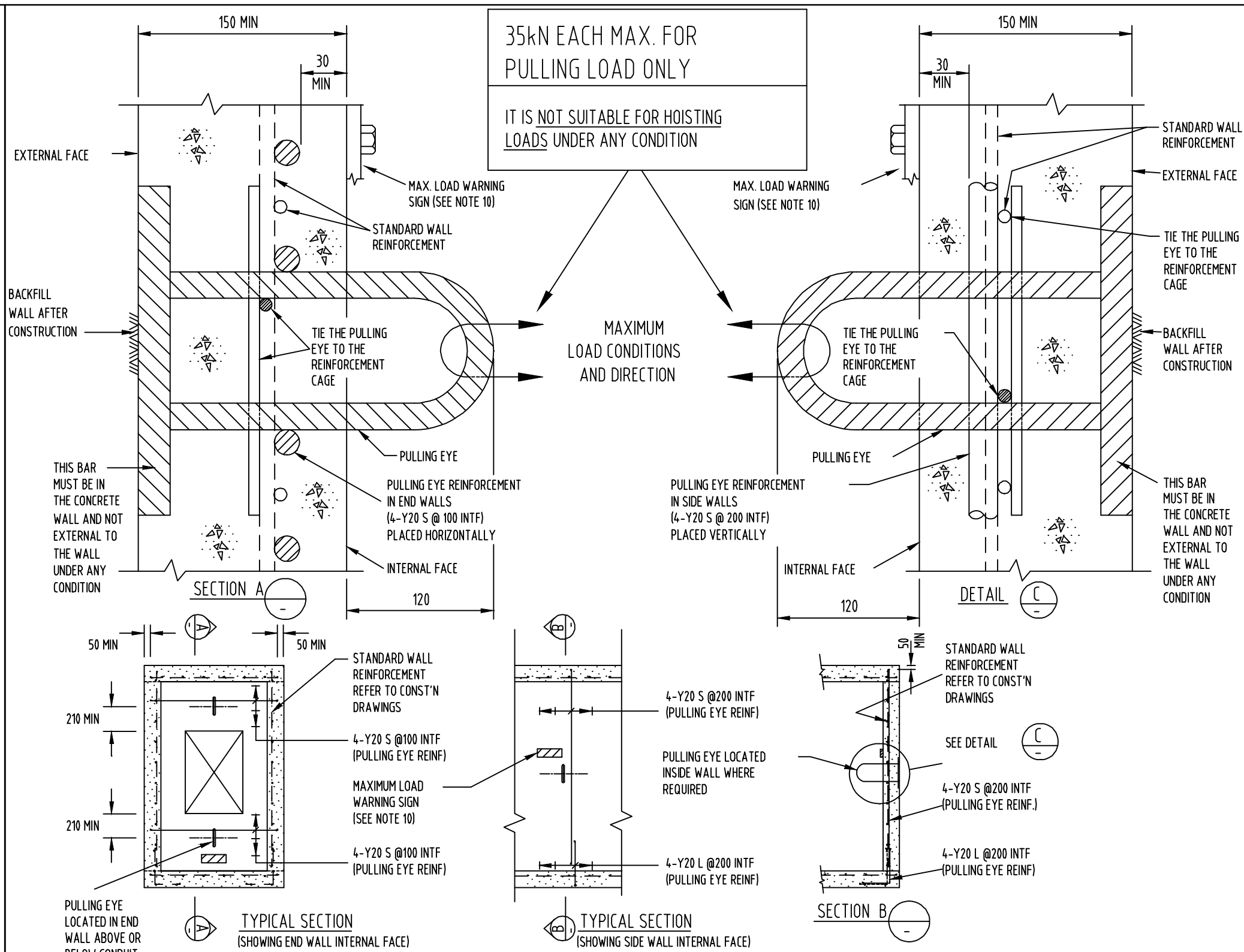


- NOTES**
1. Earthrods in the floors of cable trenches only require the 60min/100max NB PVC/FRC pipe without the earthpocket.
 2. After the earthing connections have been completed by ENERGEX then the earthpockets, PVC/FRC pipes and floor chases shall be filled with waterproof grout ("Kelgrout" or similar) flush with the floor by the builder/owner of the premises.
 3. No PVC conduit shall be used between earthpockets.
 4. All earth wire in chases is to be **BARE** and clear of the reinforcing.
 5. Metal Fences shall be clear of reinforcing steel and shall not be connected to earth wire.
 6. Earth wire shall **NOT** contact or be bonded to steel reinforcing.

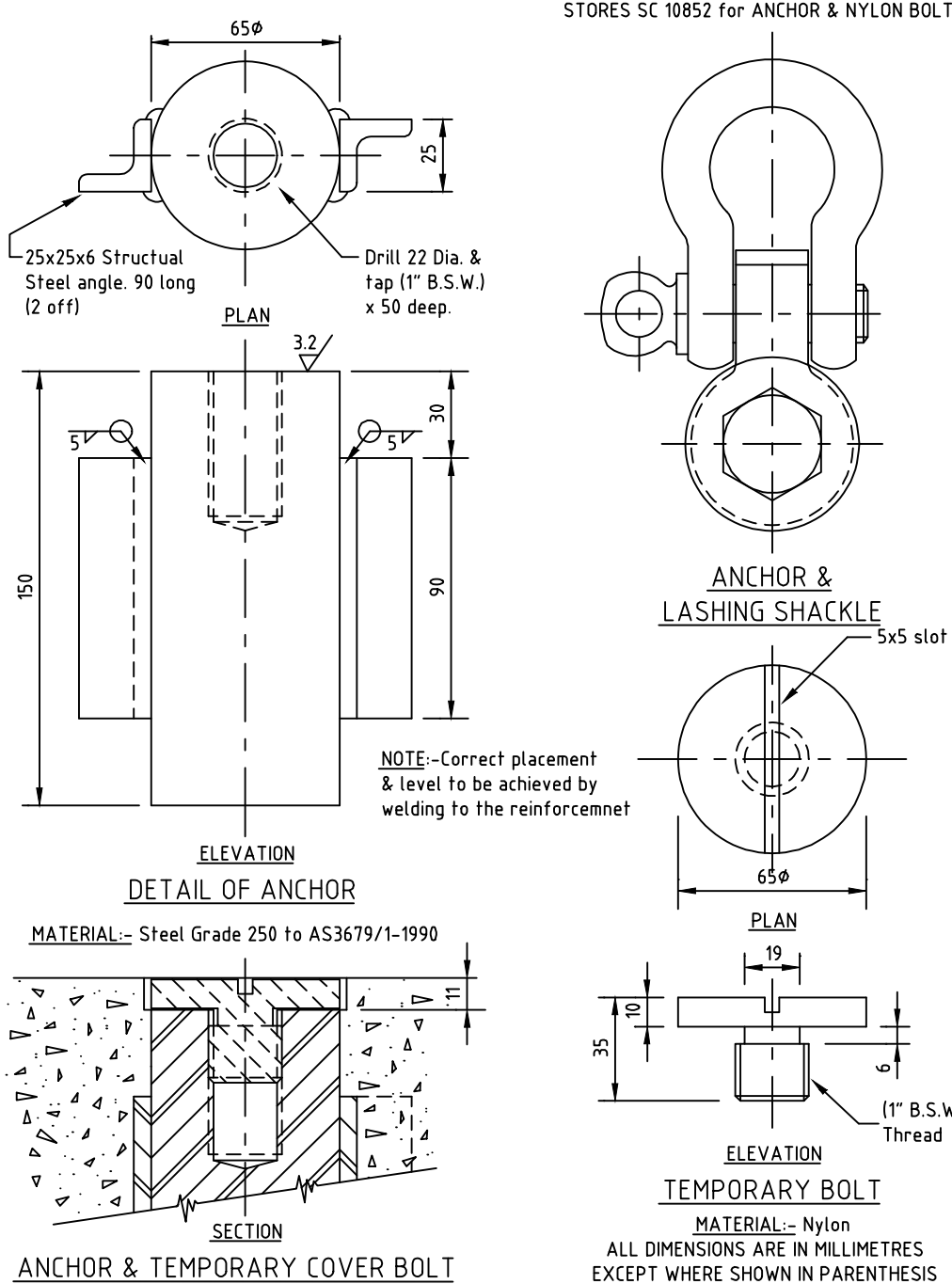
DETAIL 1
TYPICAL EARTH POCKETS & FLOOR CHASES
NOT TO SCALE



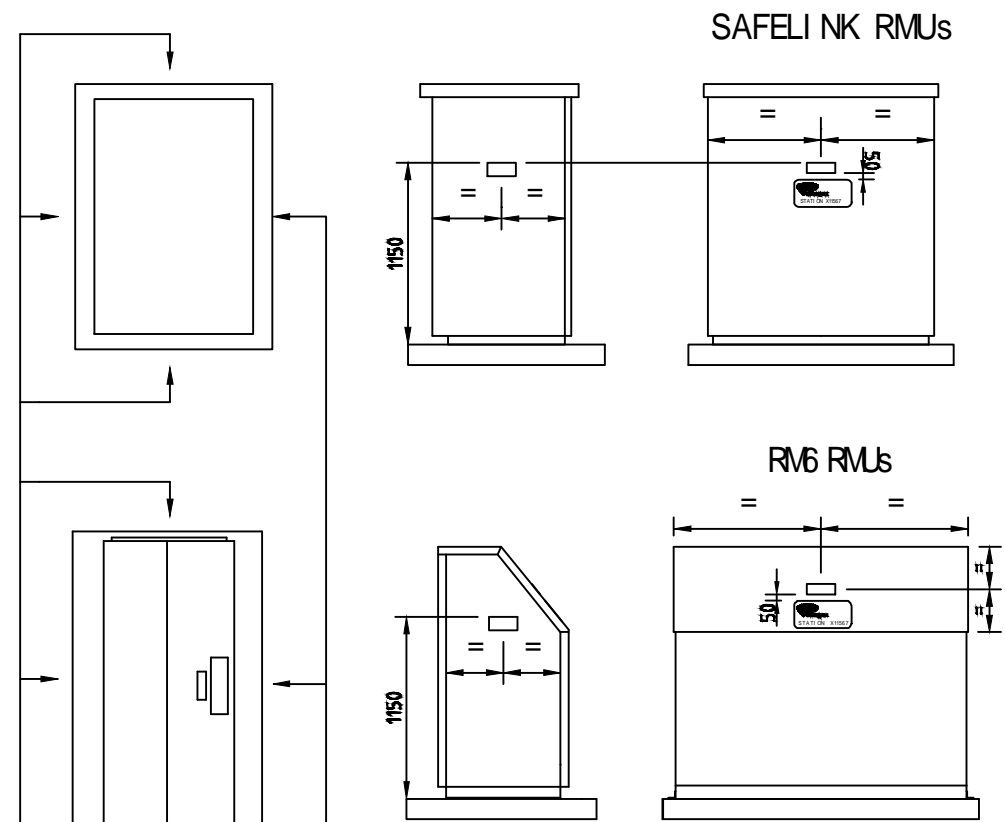
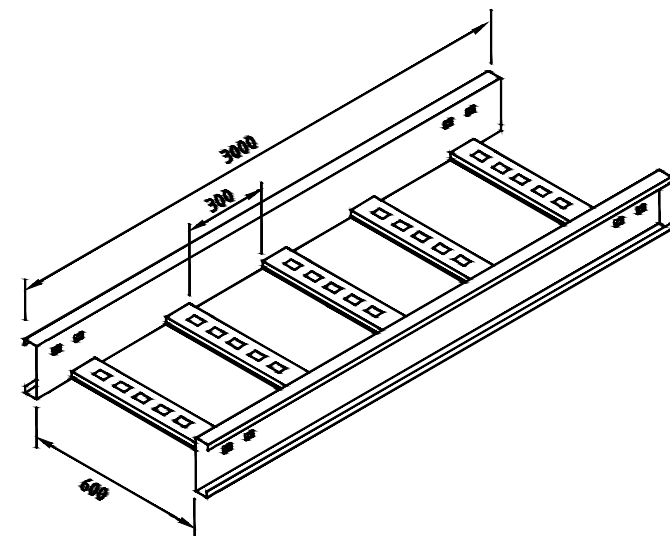
- NOTES**
1. All dimensions in millimetres.
 2. The hatchway is to provide a clear opening of 2500 x 3000.
 3. All cut ends and welded areas are to be wire brushed then given 2 coats of galv. paint.



- WARNING**
This pulling eye is designed for hauling loads in line with the pulling eye axis and must not be used for universal applications where loads may be applied off the axis line. It is suitable only for use in cable pits and locations where limited use is expected. This pulling eye is designed for use in load bearing reinforced concrete walls as shown. It is not to be used for hoisting loads under any circumstances.
- EXTREMELY IMPORTANT**
For installation in ENERGEX substation building walls, the design and construction shall be certified by the developers/builders structural Engineer who shall be an R.P.E.Q. Certified Engineer.
- NOTES**
1. The pulling eye must be placed behind the wall reinforcement cage and threaded through the cage as shown.
 2. The reinforcement cage must be tied to the pulling eye.
 3. The pulling eye is not to protrude outside the face of the external wall under any condition.
 4. Pulling eye reinforcement shown on this drawing is to be placed around the eye and is additional to the standard wall reinforcement.
 5. The eye and the reinforcement must be inspected by a suitable qualified civil supervisor prior to the pouring of the concrete.
 6. The minimum strength of concrete shall be grade 32 in accordance with AS3600. (Max Aggregate 20mm, Slump 75mm)
 7. Under no circumstances are loads applied to the pulling eye to exceed the stated maximum.
 8. Pulling Eye SC 14386
 - 9.
 10. Max load warning sign SC14533 must be cast in wall with 2 Stainless Steel masonry anchors directly above or below the eye.

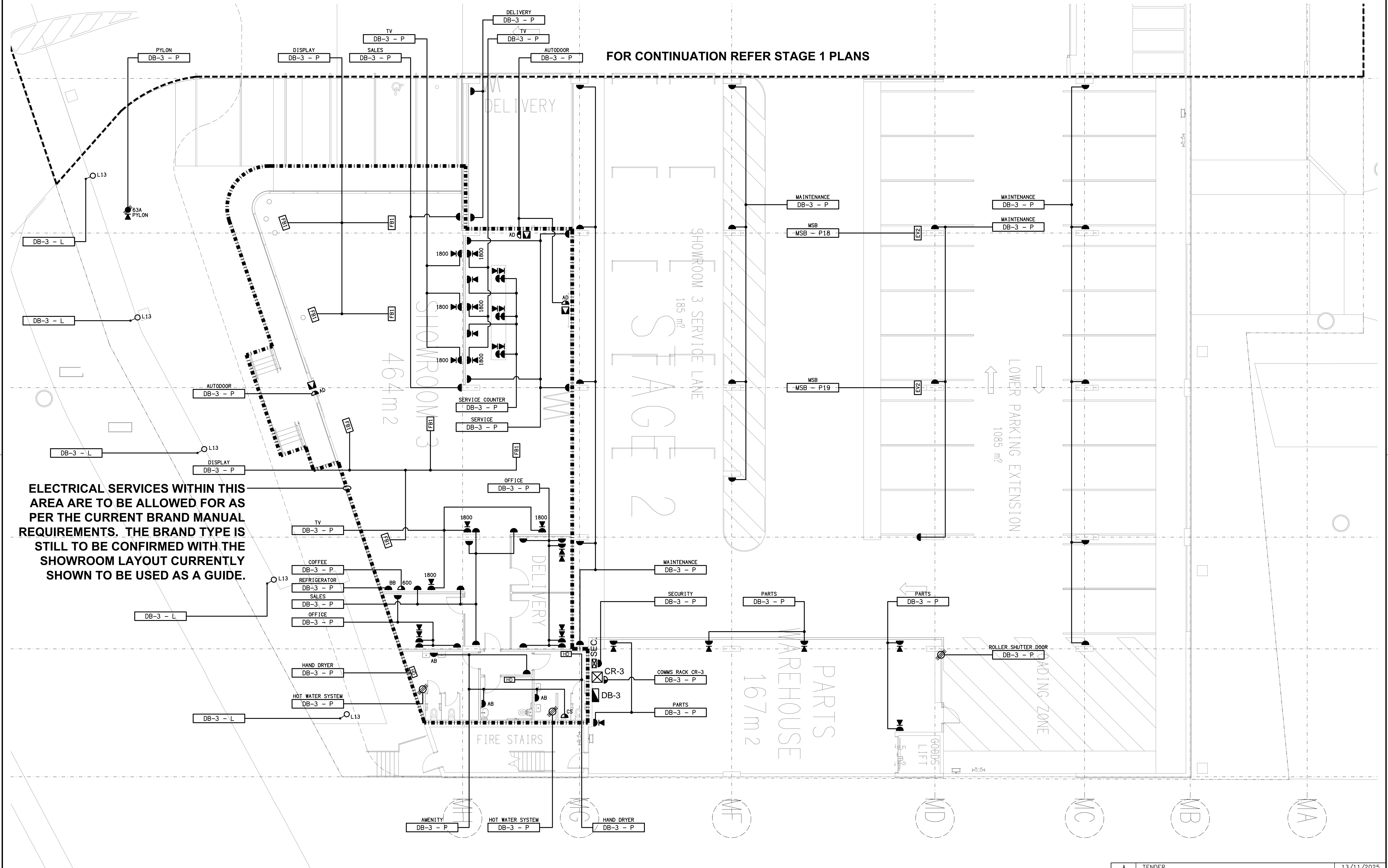


- NOTES**
1. CABLE SUPPORT BRACKETS TO BE BRACED TO ENDWALLS
 2. ALL CABLE SUPPORT BRACKETS & CABLE TRAY/LADDER TO BE EARTHED. by 70mm cable.

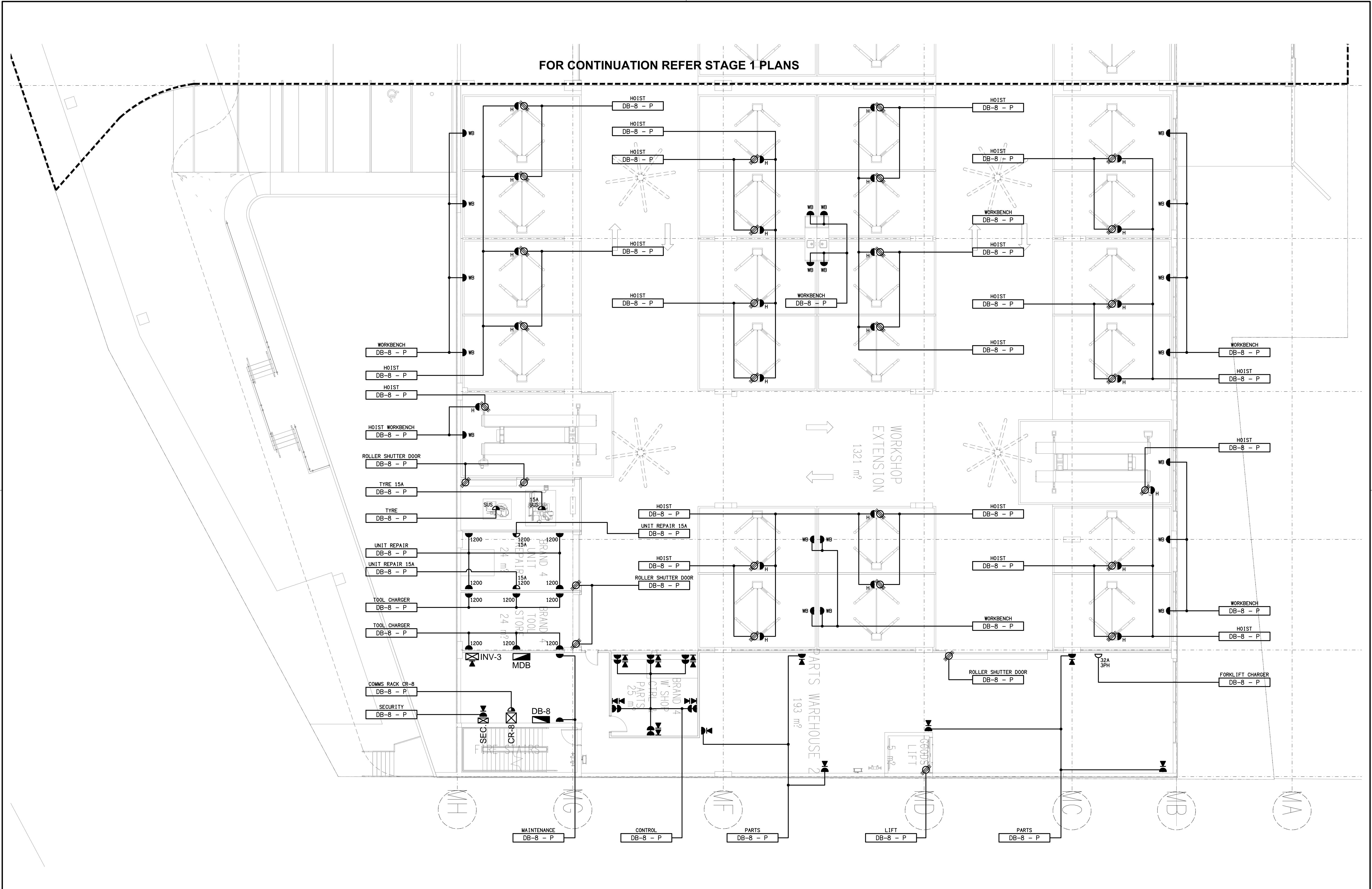


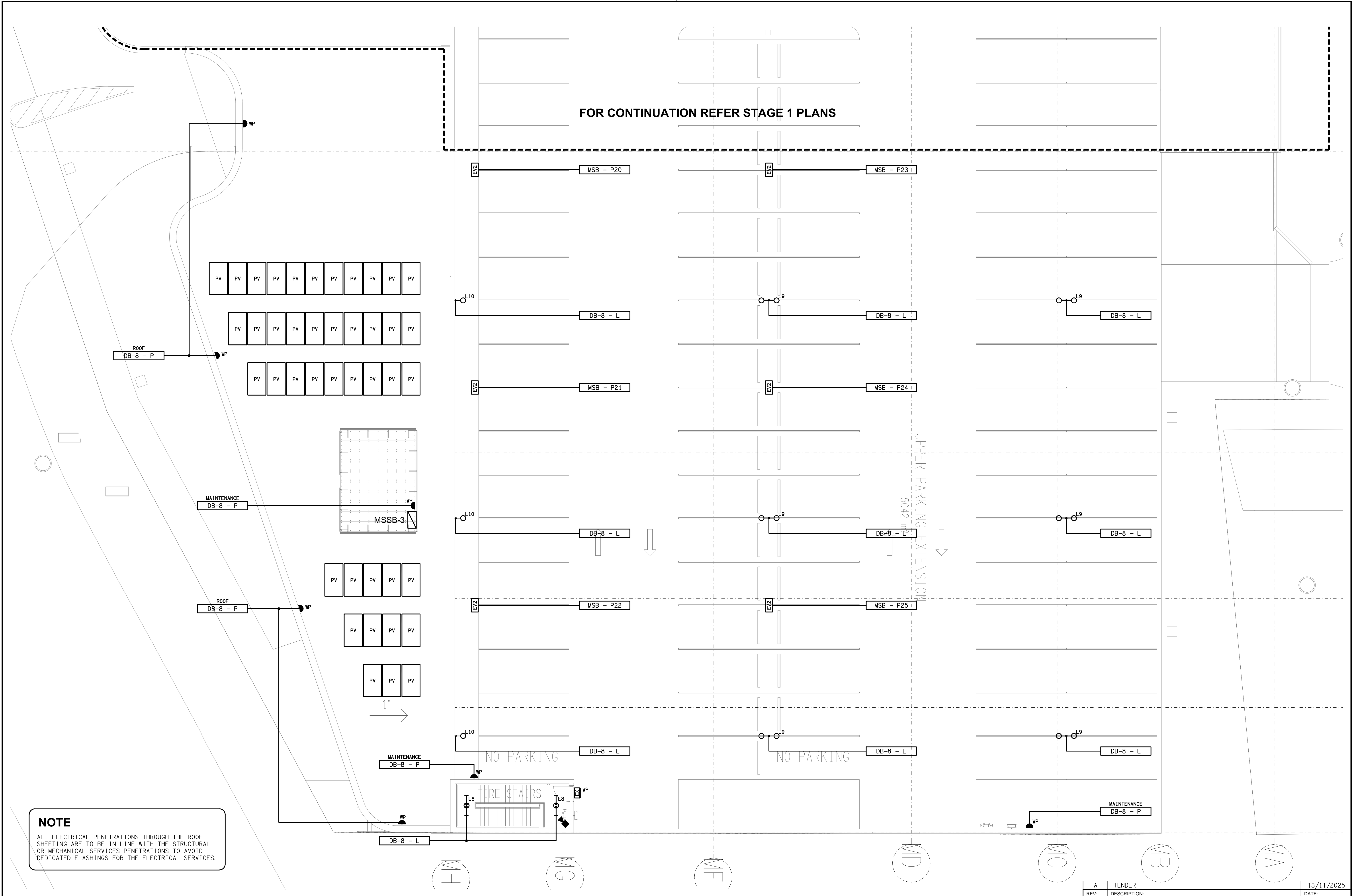
- NOTES**
- (1) "DANGER HIGH VOLTAGE" SIGN (Stock Code 12198) fixed 1150 above pinth or floor level by manufacturer. Fixed by blind rivets (screws) (type).
 - (2) "STATION" SIGN (Stock Code 12207) to be fixed by ENERGEX 50mm below "DANGER HV SIGN" on front of unit.
 - (3) Station Numbers using "50M" 225 black 8020TICAL CAST VINYL to be ordered separately. Not included in material list as Stock Codes.

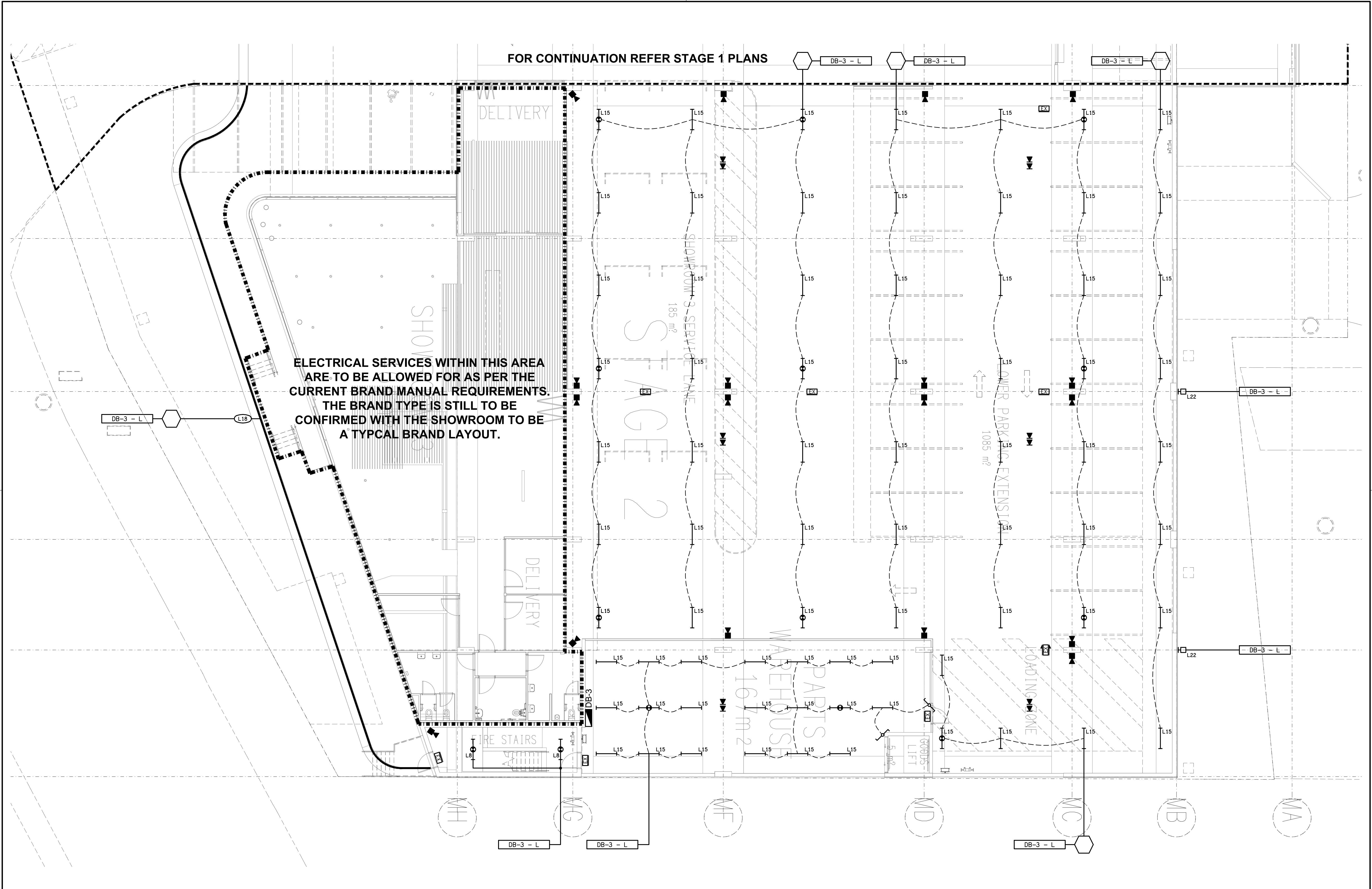
SI GN	Stock Code	QTY	SI GN	Stock Code	QTY
	12201	4		12207	1
LETTER "X" NUMBERS "1" - "0"	11654 11621 11630	1			

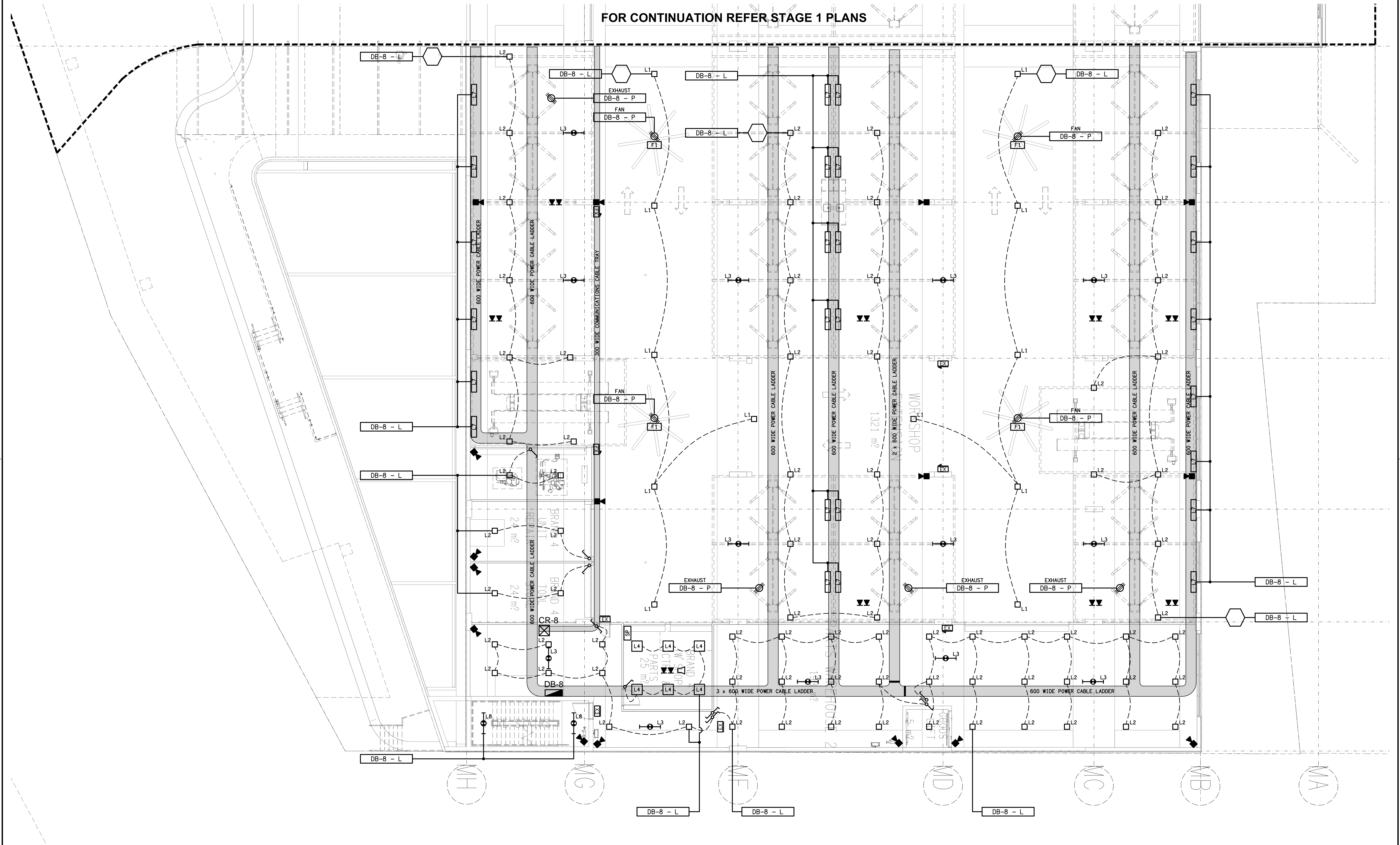


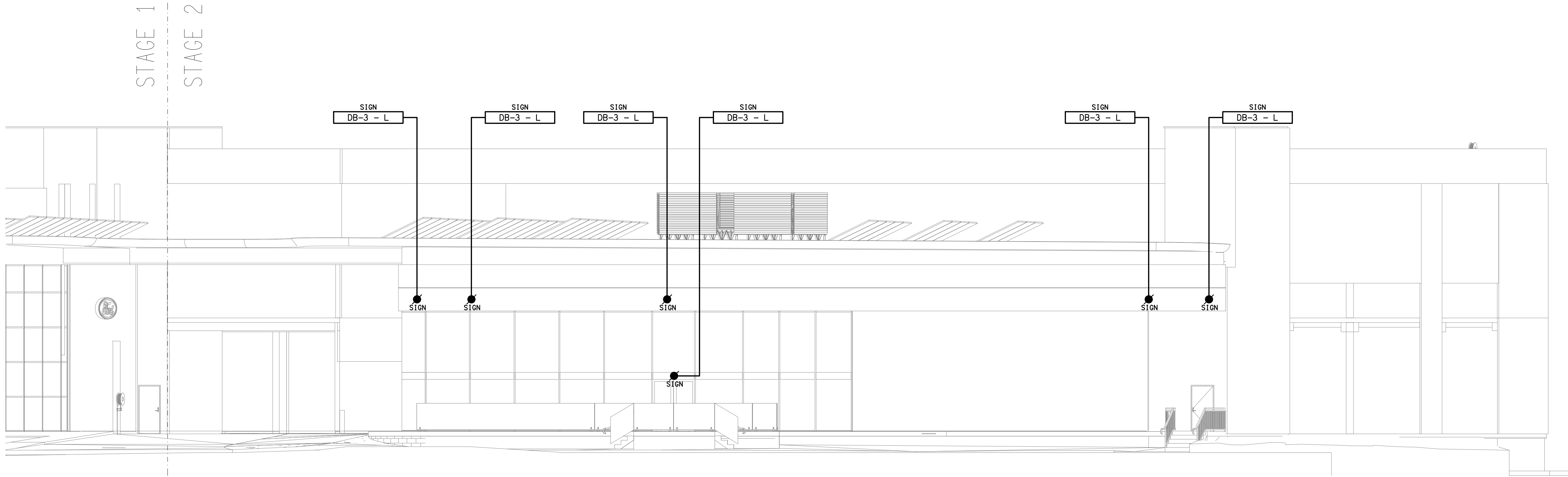
ELECTRICAL SERVICES WITHIN THIS AREA ARE TO BE ALLOWED FOR AS PER THE CURRENT BRAND MANUAL REQUIREMENTS. THE BRAND TYPE IS STILL TO BE CONFIRMED WITH THE SHOWROOM LAYOUT CURRENTLY SHOWN TO BE USED AS A GUIDE.



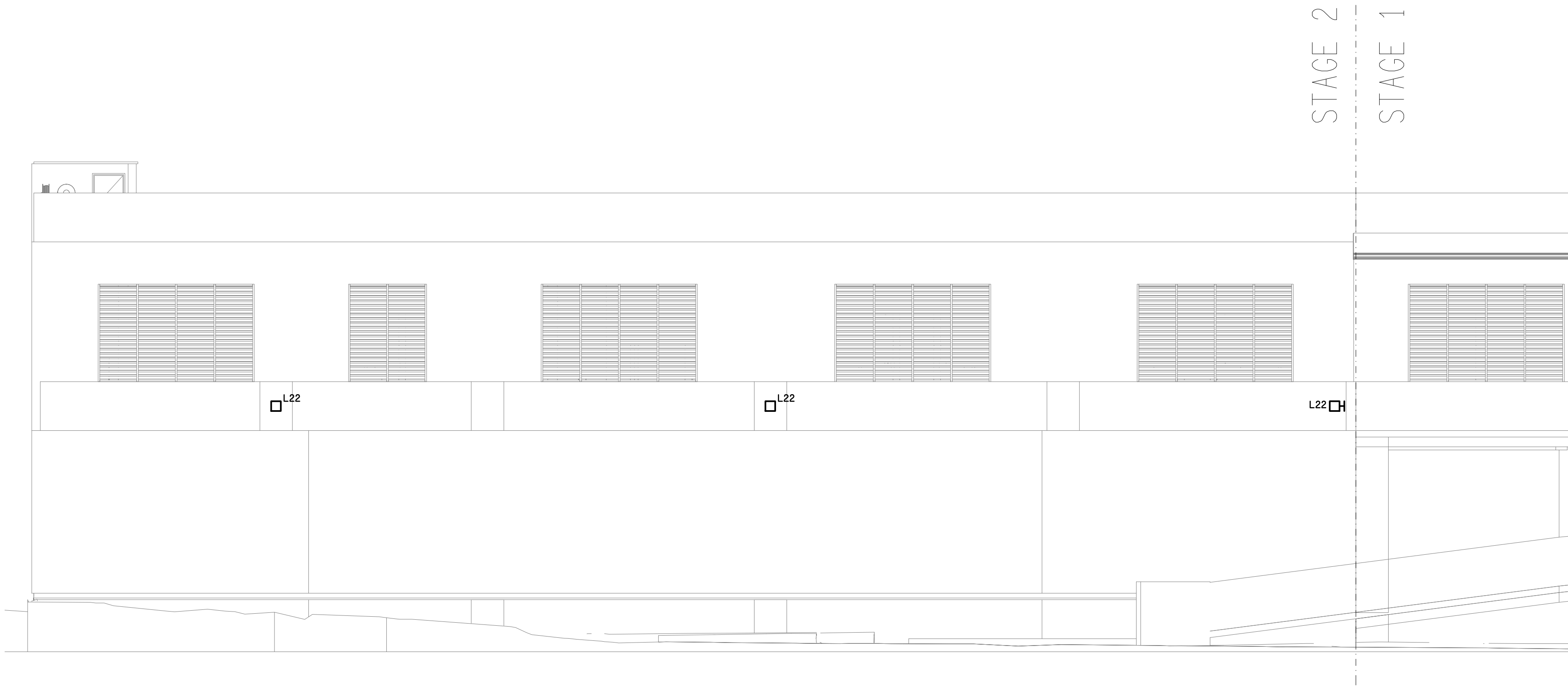








SANDGATE ROAD
STAGE 2 EXTERNAL BUILDING ELEVATIONS
SCALE 1: 100



TATE STREET
STAGE 2 EXTERNAL BUILDING ELEVATIONS
SCALE 1: 100

NOTE:
THE L22 LIGHT FITTINGS SHOWN ON THIS
PLAN ARE THE SAME LIGHT FITTINGS
SHOWN ON THE REFLECTED CEILING PLANS.