

COMMUNITY INFRASTRUCTURE DEPOT

252 COAL ROAD, MUSWELLBROOK NSW 2333

ELECTRICAL SERVICES

LIGHTING LEGEND

IMAGE	PREFIX	DESCRIPTION	SUPPLIER	MODEL
	D1	12W LED RECESSED FIXED IP44 DOWNLIGHT WITH WHITE TRIM, 90° BEAM, FIXED OUTPUT DRIVER AND 3000K LEDES.	DA LIGHTING	DA3109
	D2	23W LED RECESSED FIXED DOWNLIGHT WITH WHITE TRIM, 60° BEAM, FIXED OUTPUT TRIDONIC DRIVER AND 4000K LEDES.	DA LIGHTING	D8062
	H1	100W LED HIGH-BAY LIGHT IP65, HIGH LUMEN UFO LED HIGH-BAY IP65 AND 4000K LEDES.	DA LIGHTING	AGUB8201
	T1	31W IP44 RECESSED 1200mm x 300mm WHITE PANEL WITH 120 DEGREE BEAM ANGLE, FROSTED DIFFUSER, FIXED OUTPUT DRIVER AND 4000K LEDES.	DA LIGHTING	DA33033
	V1	34W 1200mm LED IP66 R07 SURFACE MOUNTED LUMINAIRE COMPLETE WITH POLYCARBONATE OPAL DIFFUSER, STAINLESS STEEL CLIPS, FIXED OUTPUT DRIVER AND 4000K LEDES.	CLEVERTRONICS	AGROPRO-1200
	W1	28W LED IP65 CYLINDRICAL UP/DOWN WALL MOUNTED LUMINAIRE WITH BLACK ALUMINUM HOUSING, VERY WIDE BEAM, DRIVER AND 4000K LEDES. WALL MOUNT AT 2200mm AFFL.	LIGMAN	JET 35
	P1	58W IP66 POLE MOUNTED BLACK FLOODLIGHT WITH TYPE 3 MEDIUM OPTIC, FIXED OUTPUT DRIVER AND 4000K LEDES. MOUNT ON 6.1 METRE BLACK SQUARE POLE.	ADVANCE LIGHTING	
	P2	58W IP66 BACK-BACK OUTREACH ARM POLE MOUNTED BLACK FLOODLIGHT WITH TYPE 3 MEDIUM OPTIC, FIXED OUTPUT DRIVER AND 4000K LEDES. MOUNT ON 6.1 METRE BLACK SQUARE POLE.	ADVANCE LIGHTING	
	E1	3W LED NON-MAINTAINED RECESSED ROUND WHITE EMERGENCY LIGHT WITH Li10 LITHIUM BATTERY. CO=D40; C90=D40 CLASSIFICATION.	CLEVERTRONICS	LIFELIGHT L1FE
	E2	3W LED NON-MAINTAINED SURFACE MOUNTED WHITE UNO EMERGENCY LIGHT WITH Li10 LITHIUM BATTERY. CO=D40; C90=D40 CLASSIFICATION. B=BLACK.	CLEVERTRONICS	L1FE-SMS
	E3	SURFACE MOUNTED FLOOD EMERGENCY LIGHT FITTING WHITE WITH Li10 LITHIUM BATTERY.	CLEVERTRONICS	CFLLED
	E3	34W 1200mm LED IP65 R07 SURFACE MOUNTED LUMINAIRE WITH CLEVERTEST PLUS LED EMERGENCY POD LIGHT, Li10 LITHIUM BATTERY, HI/LO MICROWAVE SENSOR POLYCARBONATE OPAL DIFFUSER, STAINLESS STEEL CLIPS, FIXED OUTPUT DRIVER AND 4000K LEDES. PROGRAM SENSOR TO 100% DETECTION AREA, 25 MINUTES HOLD TIME, 0% DIMMING LEVEL, DISABLED DAYLIGHT SENSOR AND 1 MINUTE STAND-BY PERIOD. CO=D80; C90=D80 CLASSIFICATION.	CLEVERTRONICS	AGROPRO-1200-SEN-L10 POD
	E4	34W 1200mm LED IP65 R07 SURFACE MOUNTED LUMINAIRE WITH CLEVERTEST PLUS LED EMERGENCY POD LIGHT, Li10 LITHIUM BATTERY, POLYCARBONATE OPAL DIFFUSER, STAINLESS STEEL CLIPS, FIXED OUTPUT DRIVER AND 4000K LEDES. CO=D80; C90=D80 CLASSIFICATION.	CLEVERTRONICS	AGROPRO-1200-L10 POD
	X1	3.8W LED MAINTAINED RECESSED EMERGENCY EXIT SIGN WITH Li10 LITHIUM BATTERY. MOUNT BELOW 2700mm AFFL OR ABOVE DOOR, 24m VIEWING DISTANCE.	CLEVERTRONICS	CUBPRO
	X2	3W LED MAINTAINED SURFACE MOUNTED EMERGENCY EXIT SIGN WITH Li10 LITHIUM BATTERY. MOUNT OR ROD SUSPEND AT 2700mm AFFL OR ABOVE DOOR, 24m VIEWING DISTANCE.	CLEVERTRONICS	CCFPRO
	X3	3W LED IP66 MAINTAINED SURFACE MOUNTED EMERGENCY EXIST SIGN WITH 1.0 LITHIUM BATTERY. MOUNT OR ROD SUSPEND 2700mm AFFL OR ABOVE DOOR, 24m VIEWING DISTANCE.	CLEVERTRONICS	WEATHERPROOF LWELED
	X4	3W LED IP66 MAINTAINED SURFACE MOUNTED EMERGENCY EXIST SIGN WITH 1.0 LITHIUM BATTERY. MOUNT OR ROD SUSPEND 2700mm AFFL OR ABOVE DOOR, 40m VIEWING DISTANCE.	CLEVERTRONICS	JUMBO LWELED-40

LIGHTING CONTROL LEGEND

	10A IP66 SUNSET SWITCH. CLIPSAL 56SSR/2.
	360° 1-CANNEL RECESSED UNO MOTION DETECTOR. PROGRAM TIME OUT TO 30 MINUTES. MULTIPLE MOTION SENSORS ON THE SAME SWITCHING CIRCUIT SHALL BE CABLED IN PARALLEL. SM = SURFACE MOUNTED. AUTOMATION B.E.G PD4N-1-C.
	360° 1-CANNEL SURFACE MOUNTED MOTION DETECTOR FOR HIGH CEILINGS. PROGRAM TIME OUT TO 30 MINUTES. MOUNT NO HIGHER THAN 9 METRES. MULTIPLE MOTION SENSORS ON THE SAME SWITCHING CIRCUIT SHALL BE CABLED IN PARALLEL. AUTOMATION B.E.G PD4M-1-C-GH-SM.
	1-CANNEL RECESSED UNO CORRIDOR MOTION DETECTOR. PROGRAM TIME OUT TO 30 MINUTES. MULTIPLE MOTION SENSORS ON THE SAME SWITCHING CIRCUIT SHALL BE CABLED IN PARALLEL. SM = SURFACE MOUNT. AUTOMATION B.E.G PD4N-1-C-C.
	1 GANG SWITCH. MOUNT AT 1100mm AFFL UNO. CLIPSAL PRO SERIES.
	x GANG SWITCH. MOUNT AT 1100mm AFFL UNO. CLIPSAL PRO SERIES.
	1-GANG IP66 SWITCH (20A UNO). MOUNT AT 1100mm AFFL UNO. CLIPSAL WHA SERIES.
	UNIVERSAL ROTARY CONTROLLED ON/OFF DIMMER. MOUNT AT 1100mm AFFL UNO. CLIPSAL PRO SERIES.

MATV LEGEND

POWER SCHEMATIC LEGEND

	SINGLE PHASE
	THREE PHASE
	KIOSK SUBSTATION
	CURRENT TRANSFORMER
	RESIDUAL CURRENT DEVICES (RCBO) SCHNEIDER ELECTRIC OR NHP
	ISOLATOR SCHNEIDER ELECTRIC OR NHP
	MOULDED CASE OR MINATURE CIRCUIT BREAKER SCHNEIDER ELECTRIC OR NHP
	FUSE
	SELECTOR SWITCH - AUTO/OFF/MANUAL
	CONTRACTOR COIL (Y* REPRESENTS DESIGNATOR) SCHNEIDER ELECTRIC OR NHP
	RELAY COIL (Y* REPRESENTS DESIGNATOR) SCHNEIDER ELECTRIC OR NHP
	CONTACT (NORMALLY OPEN)
	CONTACT (NORMALLY CLOSED)
	EMERGENCY LIGHTING KIT SCHNEIDER ELECTRIC OR NHP
	IP66 SUNSET SWITCH CLIPSAL 56SSR/2
	24 HOUR 7 DAY 2 CHANNEL DIGITAL TIME SWITCH SCHNEIDER ELECTRIC IHP
	50KA SURGE DIVERTER (CONNECT TO NEUTRAL AND EARTH) NOVARIS SDN3-50-275
	100KA SURGE DIVERTER (CONNECT TO NEUTRAL AND EARTH) NOVARIS SDN3-100-275
	EARTH CONNECTION
	SUPPLY AUTHORITY METER
	POWER METER WITH RS485 MODBUS SCHNEIDER ELECTRIC PM3250
	DIN-RAIL CT kWh METER WITH RS485 MODBUS SCHNEIDER ELECTRIC EM3250

SECURITY AND ACCESS CONTROL LEGEND

	SECURITY AND ACCESS CONTROL HEAD-END EQUIPMENT. INNER RANGE INTEGRITI.
	PROXIMITY CARD READER. PROVIDE ELECTRONIC LOCK IF REQUIRED. MOUNT AT 1000mm AFFL. INNER RANGE INTEGRITI SIFER SMART CARD READER.
	ELECTRIC STRIKE

NBN LEGEND

	NBN BUILDING FIBRE DEVICE. PROVIDE LEAD-IN CONDUIT THROUGH WHICH TO RUN FIBRE FROM THE STREET TO THE BFD.
	NBN FIBRE DISTRIBUTION TERMINAL.
	NBN PANEL WITH DOUBLE 10A SOCKET OUTLET AND 12 PORT PATCH PANEL. ALLOCATE SPACE FOR NTD, B8PSU AND ISP ROUTER ON THE PANEL.

POWER LEGEND

	DOUBLE 10A SWITCHED IP54 SOCKET OUTLET COMPLETE WITH HINGE FLAP. MOUNT AT 1200mm AFFL UNO. CLIPSAL WSC2272F.
	SINGLE SWITCHED SOCKET OUTLET (10A UNO). MOUNT AT 300mm AFFL UNO. CLIPSAL PRO SERIES.
	DOUBLE SWITCHED SOCKET OUTLET (10A UNO). MOUNT AT 300mm AFFL UNO. CLIPSAL PRO SERIES.
	DOUBLE SWITCHED SOCKET OUTLET (10A UNO) WITH DUAL USB CHARGER. MOUNT AT 300mm AFFL UNO. CLIPSAL PRO SERIES.
	SOFT WIRED DOUBLE 10A SWITCHED SOCKET OUTLET.
	SINGLE PHASE PERMANENT CONNECTION (20A UNO).
	SINGLE PHASE PERMANENT CONNECTION VIA IP66 RATED LOCAL ISOLATOR (20A UNO). MOUNT AT 1200mm AFFL UNO. CLIPSAL 56 SERIES.
	THREE PHASE PERMANENT CONNECTION VIA IP66 RATED LOCAL ISOLATOR (20A UNO). MOUNT AT 1200mm AFFL UNO. CLIPSAL 56 SERIES.
	ELECTRICAL CABLE TRAY. MINIMUM WIDTH AS INDICATED.
	35mm x 125 WHITE 3 DIVISION SKIRTING DUCT. CLIPSAL TAL PLUS PL35125
	SOFT WIRED DOUBLE 10A SWITCHED SOCKET OUTLET. WALL MOUNT PROVIDE INTERCONNECTIONS LEADS AND SOFT WIRED OUTLETS.
	OE ELSAFE - PEAK DESK TABLE BOX 4 - GPO 2 - DATA 1 - VGA/HDMI
	OE ELSAFE - FLUSH IN DESK TABLE BOX 8 - GPO 6 - DATA 1 - VGA/HDMI - USB CHARGING

CCTV LEGEND

	1080P IK40 IP67 FIXED DAY/NIGHT COLOUR DOME NETWORK CAMERA WITH IR LEDES. MOTORIZED 2.8-12mm VARI FOCAL LENS. ENABLE VIDEO MOTION DETECTION. SET HIGHEST IMAGE QUALITY. RESOLUTION TO 1920X1080 AND VIDEO COMPRESSION TO H.265. CABLE TO THE COMMUNICATIONS RACK AND PATCH TO NVR. DICKERDATA-DAS. DIS DC-04236WRX-A.
	PERSONAL COMPUTER
	64 CHANNEL FULL HD NETWORK VIDEO RECORDER WITH 8x10TB HDD. RECORD AT 10FPS. VERY HIGH VIDEO QUALITY AND 8MP RESOLUTION. ENABLE TIME-LAPSE RECORDING. DICKERDATA-DAS. DR8564D.
	24 PORT POWER OVER ETHERNET GIGABIT SWITCH. DICKERDATA-DAS. DH-2026PF.

UNDERGROUND SERVICES

	CONDUIT SECTION MARKER X = SERVICE TYPE (E: ELECTRICAL; C: COMMUNICATIONS) Y = CONDUIT DIAMETER (mm)
	HEAVY DUTY UPVC UNDERGROUND ELECTRICAL CONDUIT (SEE AS SHOWN ON DRAWING)
	UPVC UNDERGROUND COMMUNICATIONS CONDUIT (SEE AS SHOWN ON DRAWING)
	TYPE 99 POLYMER CONCRETE COMMUNICATIONS PIT WITH CLASS 8 GALVANISED STEEL LID. ACO CABLEMATE.
	TYPE 99 POLYMER CONCRETE ELECTRICAL PIT WITH CLASS 8 GALVANISED STEEL LID. ACO CABLEMATE.

PHOTOVOLTAIC LEGEND

	3kW SOLAR INVERTER. SMA - SUNNY TRIPOWER
	500W 2176 x 1098mm SOLAR PANEL. TRINA SOLAR VERTEX

COMMUNICATIONS LEGEND

	WALL MOUNTED 18RU COMMUNICATIONS EQUIPMENT RACK COMPLETE WITH 4 WAY POWER DISTRIBUTION UNIT, FIBOTS, CAT 6A PATCH PANELS, CABLE MANAGERS AND ALL OTHER REQUIRED ACCESSORIES. CLIPSAL.
	FREESTANDING 42RU (800mm W x 800mm D) COMMUNICATIONS EQUIPMENT RACK COMPLETE WITH 10 WAY POWER DISTRIBUTION UNIT, FIBOTS, CAT 6A PATCH PANELS, CABLE MANAGERS AND ALL OTHER REQUIRED ACCESSORIES. BOLT THE RACK TO THE FLOOR. RACK TECHNOLOGIES
	SINGLE CATEGORY 6A RJ45 TELECOMMUNICATIONS OUTLET (SHUTTER TYPE). MOUNT AT 300mm AFFL UNO. CLIPSAL PRO SERIES.
	DOUBLE CATEGORY 6A RJ45 TELECOMMUNICATIONS OUTLET (SHUTTER TYPE). MOUNT AT 300mm AFFL UNO. CLIPSAL PRO SERIES.
	COMMUNICATION CABLE TRAY. MINIMUM WIDTH AS INDICATED.

INTERCOM LEGEND

	INTERCOM HEAD-END EQUIPMENT. URMET
	WHITE VIDEO INTERCOM STATION WITH 7" HANDSFREE COLOUR TOUCHSCREEN MONITOR. MOUNT AT 1500mm AFFL. URMET MAX 7.
	IK09 STEEL ENTRY INTERCOM CALL STATION WITH DIGITAL KEYPAD, CAMERA, FULL DUPLEX AUDIO AND DISPLAY MOUNT AT 1000mm AFFL. URMET ELEKTA STEEL.

SWITCHGEAR LEGEND

	KIOSK SUBSTATION
	MAIN SWITCHBOARD
	DISTRIBUTION BOARD
	SWITCHBOARD BY OTHER SERVICES
	PRIVATE POLE OR PILLAR.

ABBREVIATIONS

1000	NOMINALLY 1000mm AFFL
24/7	ON 24 HOURS A DAY
AB	NOMINALLY 150mm ABOVE BENCH UNO
AC	AIR CONDITIONING (CONFIRM FINAL LOCATION ON SITE)
AD	AUTOMATIC DOOR (10A PERMANENT CONNECTION IN CEILING SPACE). INTERFACE TO CARD READER BY SECURITY CONTRACTOR.
AFFL	ABOVE FINISHED FLOOR LEVEL
BWU	BOILING WATER UNIT
CL	CLEANER'S OUTLET
CM	CEILING MOUNTED
COM	COFFEE MACHINE
CT	COOKTOP (32A SWITCH MOUNTED 150mm ABOVE BENCH)
DW	DISHWASHER (COORDINATE FINAL LOCATION OF OUTLET WITH JOINERY)
E	EXISTING TO REMAIN
EF	EXHAUST FAN (10A PERMANENT CONNECTION IN CEILING SPACE OR WALL MOUNTED AT HIGH LEVEL)
F	REFRIGERATOR (OUTLET AT 1800mm AFFL)
FCU	FAN COIL UNIT (CONNECTED VIA 10A SOCKET AND PLUG)
HD	HAND DRYER (15A PERMANENT CONNECTION IN CEILING SPACE)
HWU	HOT WATER UNIT
IC	IN CEILING
IM	ICE MACHINE
IS	ILLUMINATED SIGNAGE (10A PERMANENT CONNECTION)
M	MICROWAVE (COORDINATE FINAL LOCATION OF OUTLET WITH JOINERY)
OV	OVEN (32A SWITCH MOUNTED 150mm ABOVE BENCH)
R	RELOCATED EXISTING
RH	RANGE HOOD (OUTLET MOUNTED AT 2000mm AFFL)
RSD	ROLLER SHUTTER DOOR
SS	20A STARTER SOCKET IN CEILING SPACE
TS	TOASTER AND SANDWICH PRESS
TV	TELEVISION OUTLET (COORDINATE MOUNTING HEIGHTS WITH BUILDER)
U	URNAL OUTLET IN CEILING SPACE
UNO	UNLESS NOTED OTHERWISE
W/D	WASHER AND DRYER OUTLET MOUNTED AT 1100mm AFFL
WAP	WIRELESS ACCESS POINT OUTLET IN CEILING SPACE (MAXIMUM 3m FROM FF.)
WP	WEATHER PROTECTED

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ISSUE	DATE	AMENDMENT	DRAFTED BY
P1	28.05.24	PRELIMINARY ISSUE	JH
P2	06.12.24	PRELIMINARY ISSUE	JH

XREF LINKS

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PROJECT
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252 COAL ROAD,
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DRAWING TITLE
ELECTRICAL SERVICES
COVER SHEET, LEGEND, SYMBOLS
AND SCHEDULE OF DRAWINGS

NORTH POINT

REVISION

DRAWN **IPD**
DESIGNED **IKS**
CHECKED **I-**

P2

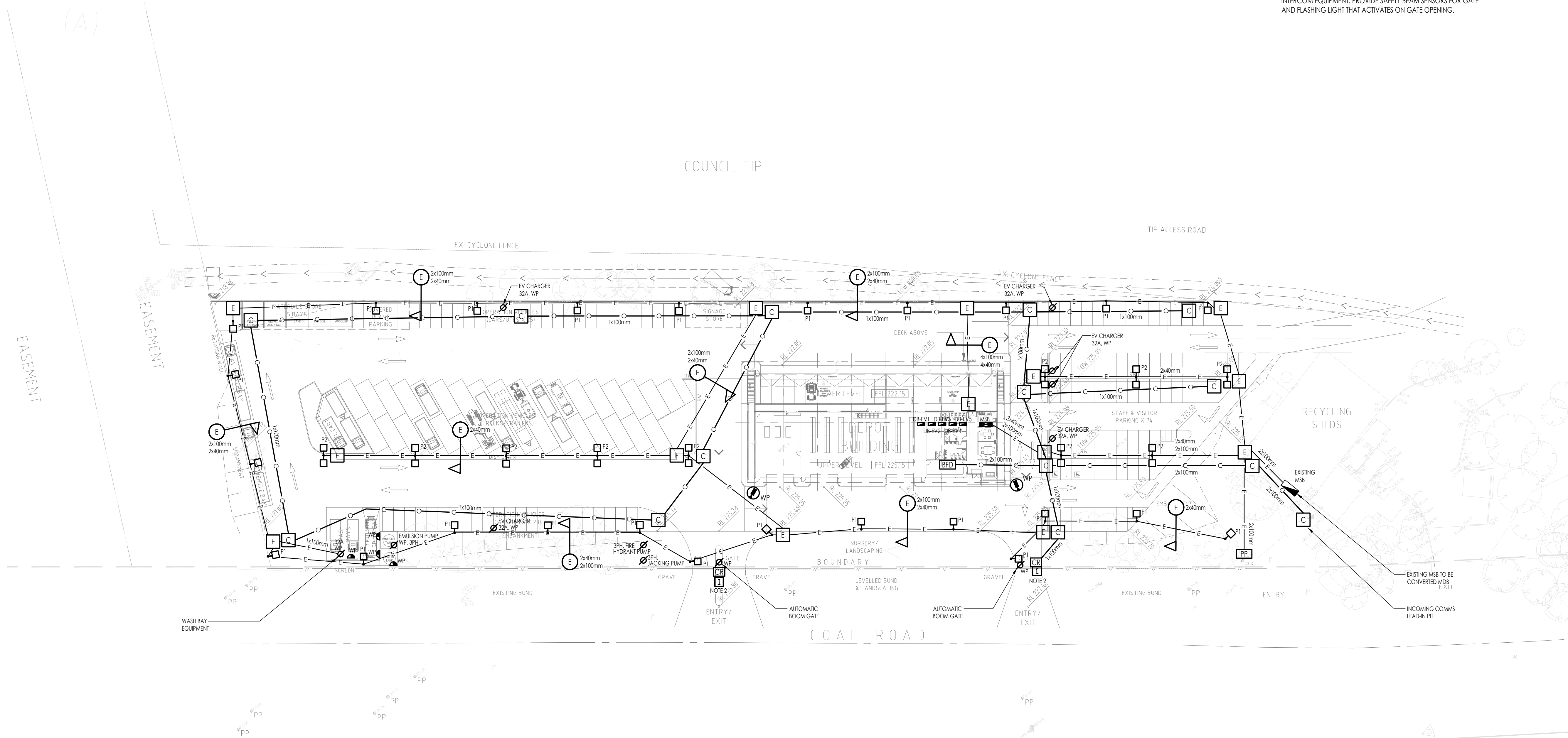
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PROJECT No.

SYD23603

DRAWING No.

EL-0000



1. ALL CONDUITS ARE 50mm DIA HD PVC CONDUITS FOR POWER RETICULATION, UNLESS NOTED OTHERWISE.
2. PROVIDE STANDARD HEIGHT BOLLARD FOR MOUNTING SECURITY AND INTERCOM EQUIPMENT. PROVIDE SAFETY BEAM SENSORS FOR GATE AND FLASHING LIGHT THAT ACTIVATES ON GATE OPENING.

ISSUE	DATE	AMENDMENT	DRAFTED BY
P1	28.05.24	PRELIMINARY ISSUE	JH
P2	06.12.24	PRELIMINARY ISSUE	JH

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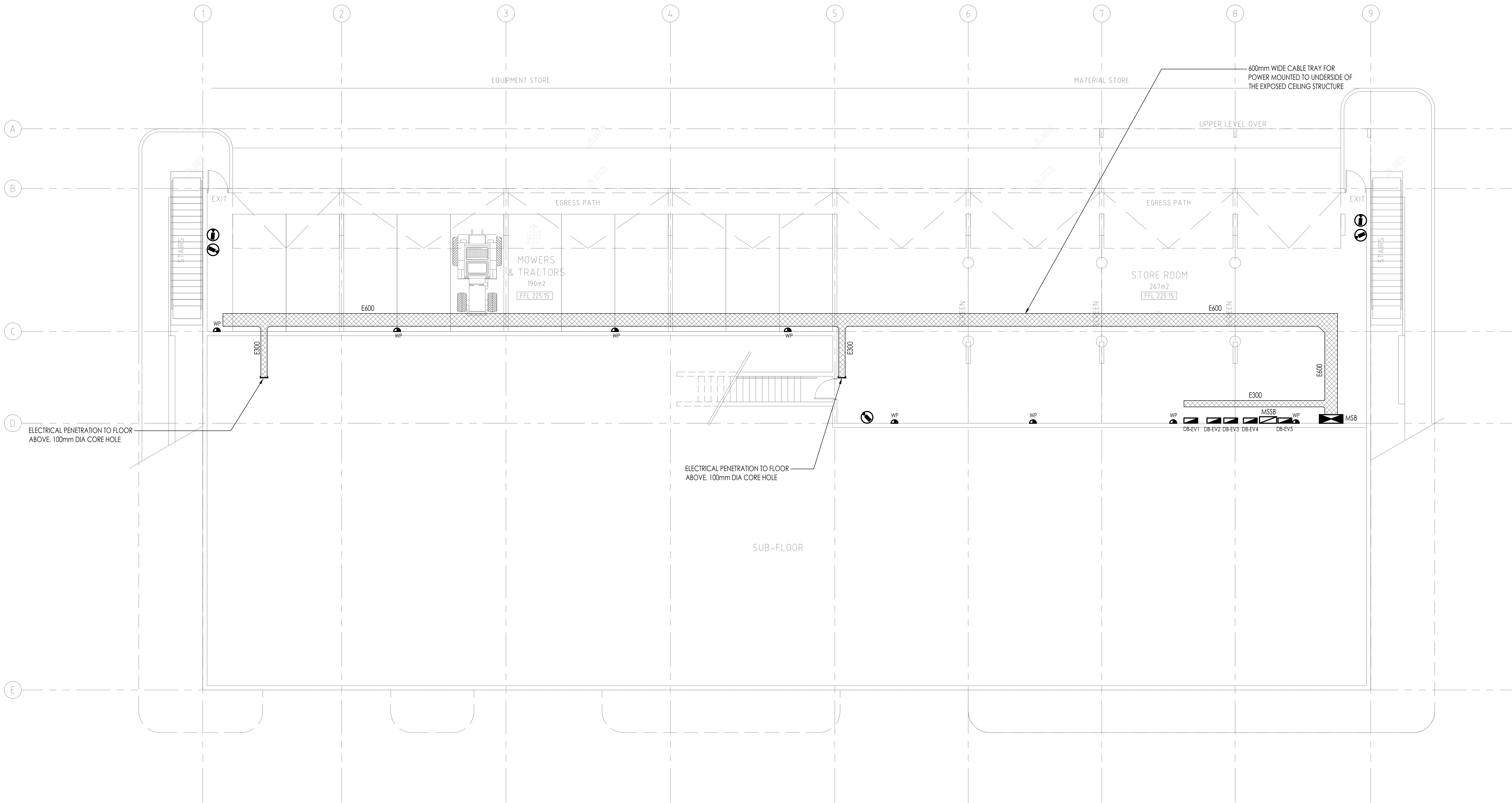
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P2

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XREF LINKS

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Discipline	Dwg. No.	Date	Revisions
ARCH PLAN	AR101	15.10.24	6
ARCH RCP			
STRUCTURAL			
MECHANICAL			
ELECTRICAL			
CIVIL			
LANDSCAPE			

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DRAWING TITLE
ELECTRICAL SERVICES
LOWER GROUND FLOOR
POWER LAYOUT

NORTH POINT



REVISION

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DESIGNED I KS
CHECKED I -

P2

SCALE 1:100

PROJECT No.

SYD23603

DRAWING No.

EL-1000

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COUNCIL**

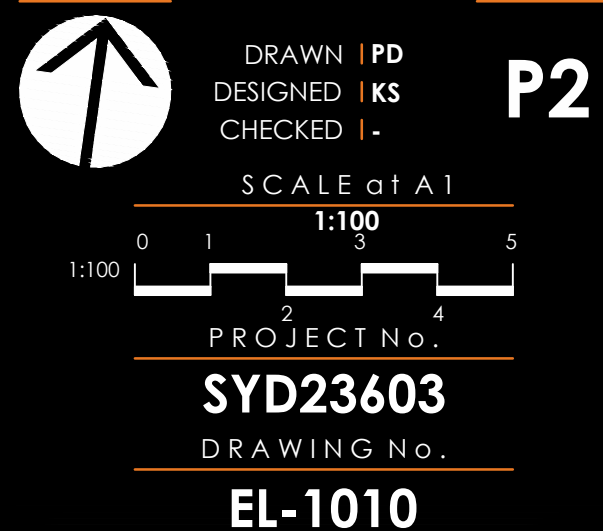
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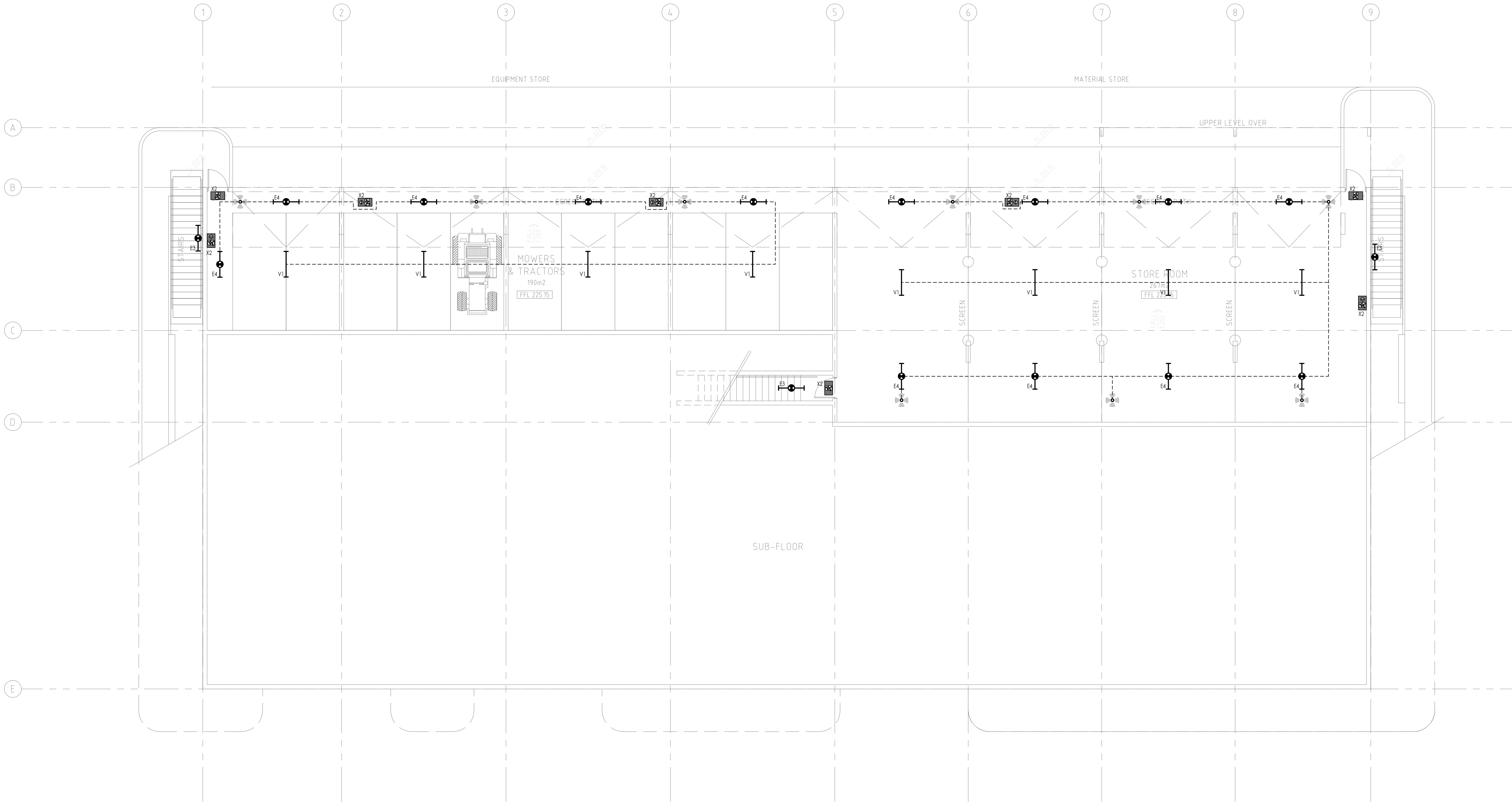
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NORTH POINT REVISIONS





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DRAWING TITLE

ELECTRICAL SERVICES
LOWER GROUND FLOOR
LIGHTING LAYOUT

NORTH POINT



REVISION

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CHECKED **I-**

P2

SCALE **of A1**

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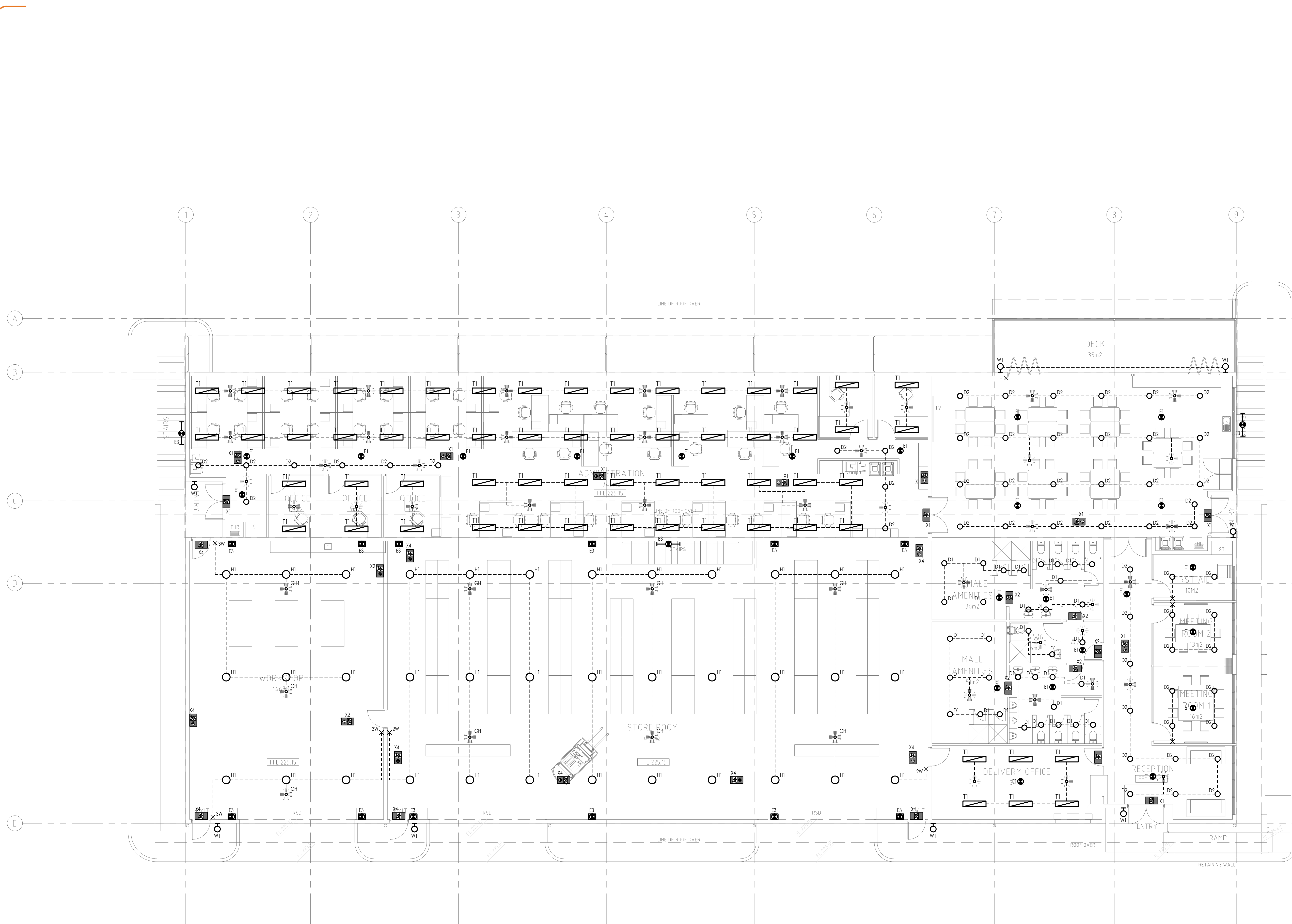
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DRAWING TITLE
ELECTRICAL SERVICES
UPPER GROUND FLOOR
LIGHTING LAYOUT

NORTH POINT


REVISION
P2

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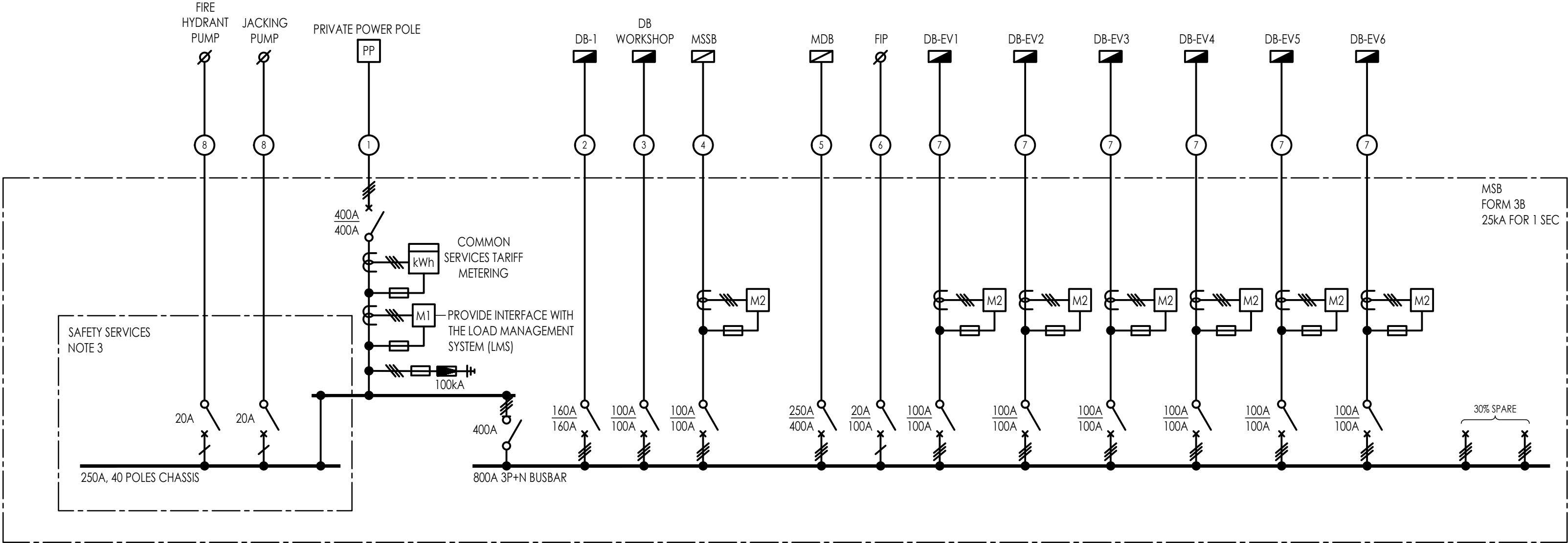
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PROJECT No. **SYD23603**

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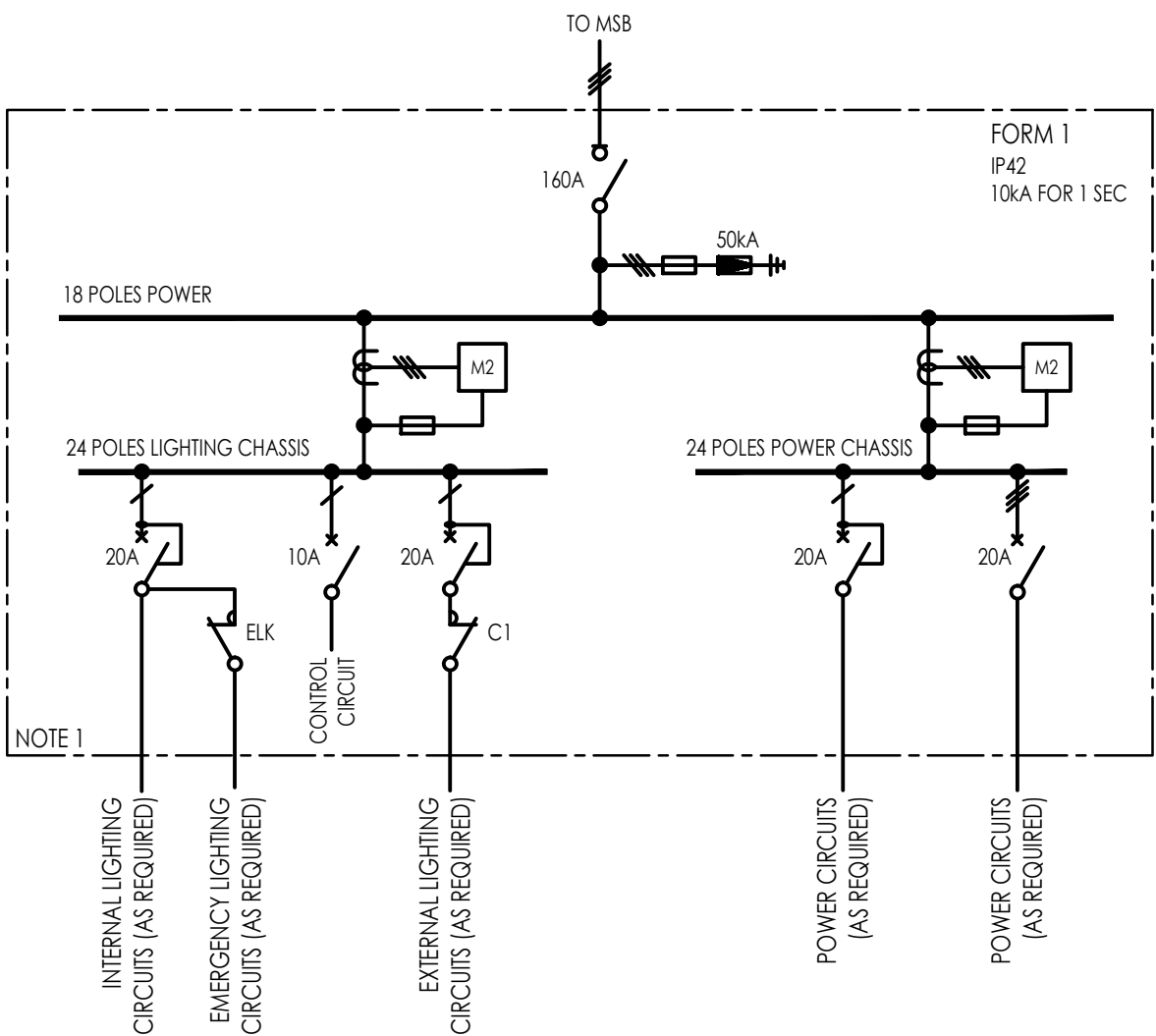
NOTES:

- THE PROPOSED EV CHARGING SYSTEM COMPRISING EACH DV-EV WILL NEED TO INCLUDE A LOAD MANAGEMENT SYSTEM (LMS). THIS SYSTEM WILL MONITOR THE LOAD ON THE BUILDING'S MAIN SWITCHBOARD AND MANAGE THE RESPECTIVE LOADS BY AUTOMATICALLY VARYING THE RATE OF-CHARGE TO EACH EV.
- THE ELECTRIC VEHICLE CHARGING SYSTEM WILL BE ARRANGED THAT A THIRD-PARTY OPERATOR WILL BE ABLE TO ADOPT THE EV INFRASTRUCTURE AND BILLED VIA A REVENUE METER LOCATED IN THE SWITCHROOM. THE OPERATOR WOULD THEN BE ABLE TO GENERATE REVENUE VIA THE INDIVIDUAL EV CHARGER UNITS.
- MAIN SWITCHES CONTROLLING SAFETY SERVICES SHALL BE IDENTIFIED TO INDICATE THE SAFETY EQUIPMENT THAT THEY CONTROL, MARKED "I" IN THE EVENT OF FIRE, DO NOT SWITCH OFF" AND IDENTIFIED BY CONTRASTING COLOURING.



MAIN SWITCHBOARD (MSB) SINGLE LINE DIAGRAM

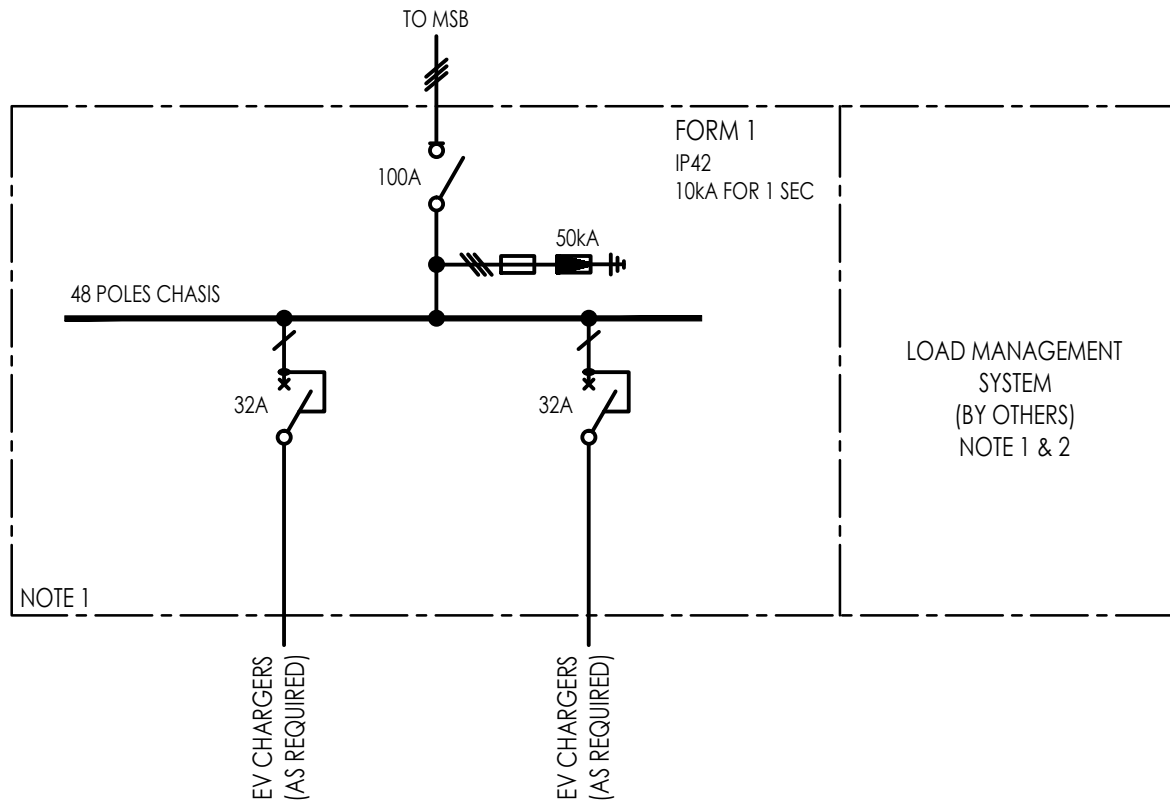
CABLE #	CABLE SIZE
1	4 x 1C 300mm ² CU FIRE RATED
2	4 x 1C 95mm ² CU XLPE/PVC + E
3	4 x 1C 50mm ² CU XLPE/PVC + E
4	4 x 1C 50mm ² CU XLPE/PVC + E
5	4 x 1C 150mm ² CU XLPE/PVC + E
6	2C + E 2.5mm ² CU FIRE RATED
7	4 x 1C 25mm ² CU XLPE/PVC + E
8	4C + E 16mm ² CU FIRE RATED



TYPICAL DB (DB-1 & DB-WORKSHOP)
SINGLE LINE DIAGRAM

NOTE:

- WIDTH OF THE DISTRIBUTION SHALL BE A MAXIMUM OF 600mm.



TYPICAL EV DISTRIBUTION BOARD (DB-EVX)
SINGLE LINE DIAGRAM

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ISSUE	DATE	AMENDMENT	DRAFTED BY
P1	28.05.24	PRELIMINARY ISSUE	JH
P2	06.12.24	PRELIMINARY ISSUE	JH

XREF LINKS

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ISSUE FOR DA

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DRAWING TITLE
ELECTRICAL SERVICES
SINGLE LINE DIAGRAMS

NORTH POINT

REVISION

DRAWN JH
DESIGNED KS
CHECKED I-

P2

SCALE of A1
NTS

PROJECT No.

SYD23603

DRAWING No.

EL-8000