

NOT WITHSTANDING ANYTHING TO THE CONTRARY, ALL RIGHTS RESERVED. NO PART OF THIS DRAWING MAY BE REPRODUCED IN ANY MATERIAL FORM (INCLUDING PHOTOCOPIING OR STORING IN ANY MEDIUM OR BY ELECTRONIC MEANS WHETHER OR NOT TRANSIENTLY OR INCIDENTALLY TO SOME OTHER USE OF THIS DRAWING) AND ALSO, THIS DRAWING MAY NOT BE USED FOR ANY PURPOSE OR REASON OTHER THAN FOR WHICH IT WAS ORIGINALLY ISSUED, WITHOUT THE WRITTEN PERMISSION OF IBUYA CONSULTING ENGINEERS.

ENGINEER	DRAWN	DATE:	SCALE:	CHKD.	DRAWING TITLE:
K.Singh	NG	22/08/24	NTS PAPER SIZE: A3	KS	SAPS MSINSINI POLICE STATION
PROJECT No.	DRAWING No.	SHEET:	REV.	DRAWING TITLE:	
23044	402	1 of 2	0	Main LV Kiosk Single Line Diagram	
REV	DESCRIPTION	BY	DATE	CHKD.	File Name : Lyr:
0	Original Issue	NG	27/05/25	KS	



IBUYA Consulting Engineers
 BLOCK D
 ESSEX PARK
 46 ESSEX TERRACE
 WESTVILLE
 P.O. BOX 1692
 WANDSBECK 3631
 TEL: +27 (031) 2667332
 FAX: +27 (031) 2667340
 E-mail: ibuya@ibuya.co.za

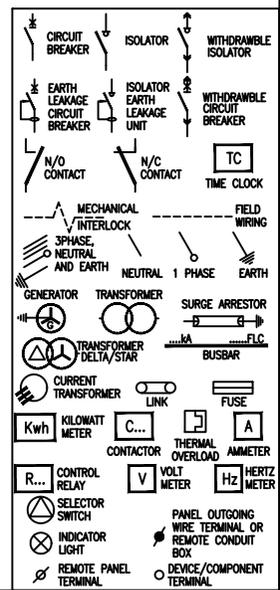
"POWERING DEVELOPMENT"



- ① CLASS 1 SURGE ARRESTOR
- ② SCHNEIDER PM 5320

- NOTES**
- 1) DROPPERS/TAILS TO BE RATED FOR FULL P_N LET THROUGH.
 - 2) HARNESSED WIRING TO BE DERATED.
 - 3) TUFFNOL BRACES ARE NOT TO BE USED ABOVE 10kA.
 - 4) COPPER BUSBARS TO BE CONTINUOUS RATED.
 - 5) SUFFICIENT SPACE REQUIRED FOR SAFE ACCESS FOR REWIRING.
 - 6) EARTH AND NEUTRAL BARS TO BE EASILY ACCESSIBLE.
 - 7) ALL CIRCUIT BREAKERS TO BE FITTED WITH TERMINAL SHIELD ON LIVE AND LOAD SIDES.
 - 8) ENCLOSURE TO BE IP65, 3CR12.
 - 9) PHASING RWB, TOP TO BOTTOM, LEFT TO RIGHT, BACK TO FRONT.
 - 10) INTERNAL TEMP TO BE LIMITED TO 5° ABOVE AMBIANT, MAX 40°C.
 - 11) ALL CIRCUITS TO BE LABELED.
 - 12) 25% SPARE SPACE. SPARE SPACES ARE TO BE FITTED WITH COPPER BUSBAR TAILS CONNECTED TO DROPPER BUSBARS TO ALLOW INSTALLATION OF CIRCUIT BREAKERS WITH A MINIMAL SHUTDOWN PERIOD.
 - 13) DB TO BE FITTED WITH A4 LEGEND CARD HOLDER WITH STANDARD IBUYA A4 LEGEND CARD.
 - 14) EACH CIRCUIT TO BE LABELED WITH DETAILED DESCRIPTION OF CONNECTED DEVICE.
 - 15) EXTERNAL EARTH STUD MOUNTED ADJACENT CABLE ENTRY.
- INCOMING CABLE** -TOP
OUTGOING CIRCUITS -TOP
COLOUR -RED
MOUNTING -FLOOR STANDING
ACCESS -FRONT / REAR
PROTECTIVE DEVICES -SCHNEIDER
 ACB's (1250A-4000A) -MASTERPACT NW
 MCCB'S(800A - 1000A) -COMPACT NS
 MCCB'S(60A-630A) -EASYPACT CSV
 MCB'S -MULTI 9, TYPE 2
CONTACTORS -AC3 HEAVY DUTY

FIELD										
CIRCUIT No. PHASE	INVERTER 1	INVERTER 2	DB-MECH-E	INVERTER BYPASS	R	W	B	R	W	B
DESIGNATION	INVERTER	INVERTER	FIRE PUMP	BYPASS	EXTERNAL LIGHTING					
WIRING	35mm ² 4C PVC SWA PVC ECC Cu CABLE	35mm ² 4C PVC SWA PVC ECC Cu CABLE	95mm ² 4C PVC SWA PVC ECC Cu CABLE	95mm ² 4C PVC SWA PVC ECC Cu CABLE	6mm ² 4C PVC SWA PVC ECC Cu CABLE	6mm ² 4C PVC SWA PVC ECC Cu CABLE	6mm ² 4C PVC SWA PVC ECC Cu CABLE	6mm ² 4C PVC SWA PVC ECC Cu CABLE	6mm ² 4C PVC SWA PVC ECC Cu CABLE	6mm ² 4C PVC SWA PVC ECC Cu CABLE
CABLE NO.										
LOAD (AMPS) No. OF POINTS	XX XX	XX XX	XX XX	XX XX	XX XX	XX XX	XX XX	XX XX	XX XX	XX XX



NOT WITHSTANDING ANYTHING TO THE CONTRARY, ALL RIGHTS RESERVED. NO PART OF THIS DRAWING MAY BE REPRODUCED IN ANY MATERIAL FORM (INCLUDING PHOTOCOPIING OR STORING IN ANY MEDIUM OR BY ELECTRONIC MEANS WHETHER OR NOT TRANSIENTLY OR INCIDENTALLY TO SOME OTHER USE OF THIS DRAWING) AND ALSO, THIS DRAWING MAY NOT BE USED FOR ANY PURPOSE OR REASON OTHER THAN FOR WHICH IT WAS ORIGINALLY ISSUED, WITHOUT THE WRITTEN PERMISSION OF IBUYA CONSULTING ENGINEERS.

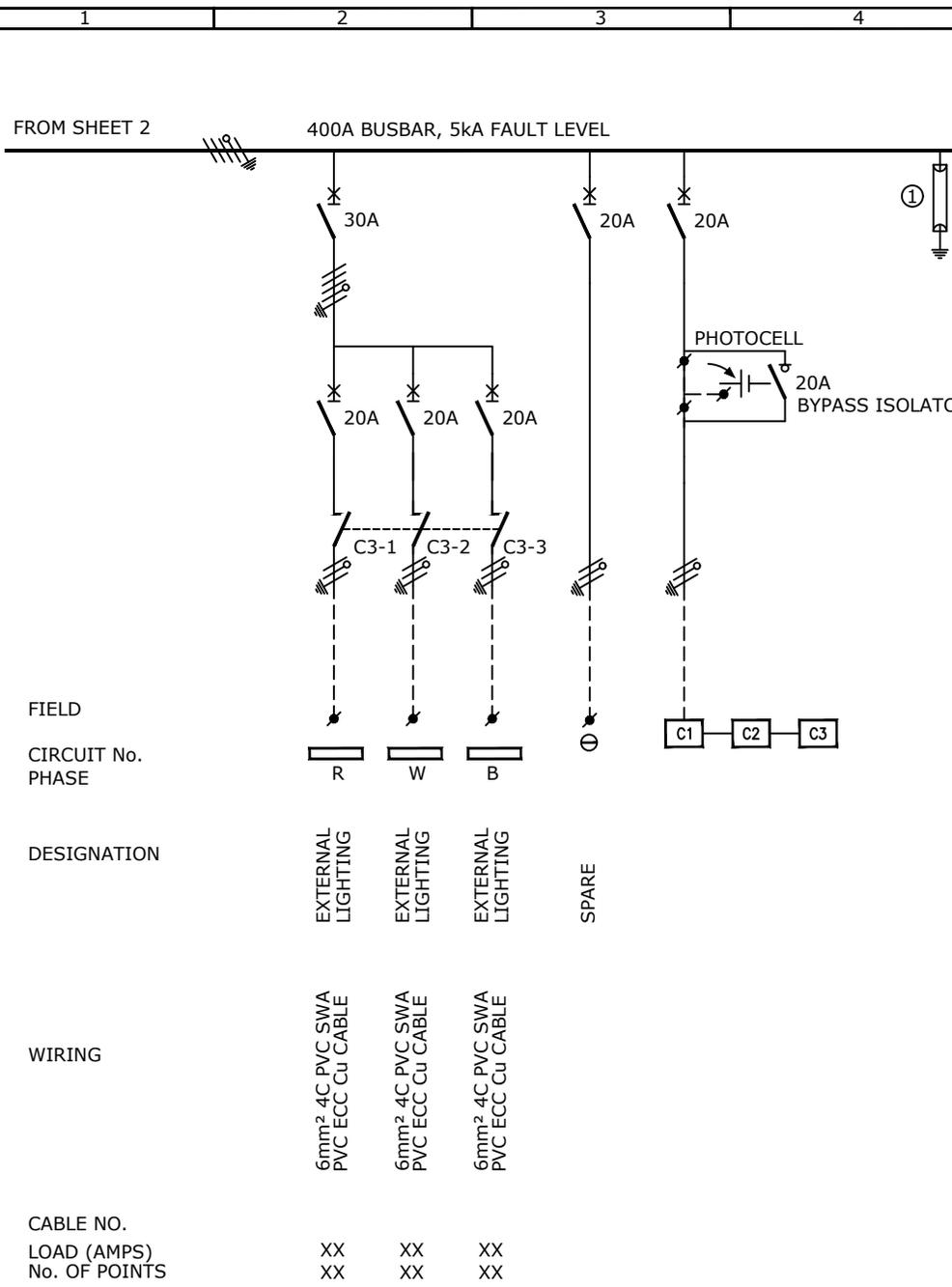
ENGINEER	DRAWN	DATE:	SCALE:	CHKD.
K.Singh	NG	22/08/24	NTS PAPER SIZE: A3	KS
PROJECT No.	DRAWING No.	SHEET:	REV.	
23044	402	2 of 3	0	
REV	DESCRIPTION	BY	DATE	CHKD.
0	Original Issue	NG	27/05/25	KS

DRAWING TITLE:	SAPS MSINSINI POLICE STATION
DRAWING TITLE:	Main LV Kiosk Single Line Diagram

IBUYA Consulting Engineers
 "POWERING DEVELOPMENT"

BLOCK D
 ESSEX PARK
 46 ESSEX TERRACE
 WESTVILLE
 P.O. BOX 1692
 WANDSBECK 3631

TEL: +27 (031) 2667332
 FAX: +27 (031) 2667340
 E-mail: ibuya@ibuya.co.za



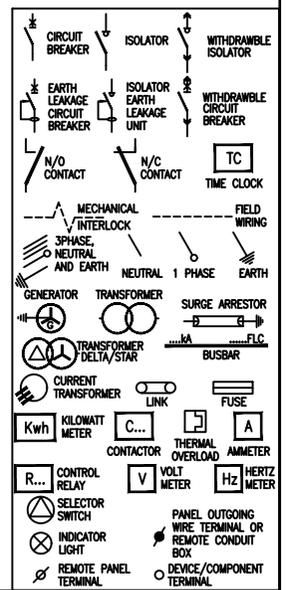
- ① CLASS 1 SURGE ARRESTOR
- ② SCHNEIDER PM 5320

NOTES

- 1) DROPPERS/TAILS TO BE RATED FOR FULL P_L LET THROUGH.
- 2) HARNESSED WIRING TO BE DERATED.
- 3) TUFFNOL BRACES ARE NOT TO BE USED ABOVE 10kA.
- 4) COPPER BUSBARS TO BE CONTINUOUS RATED.
- 5) SUFFICIENT SPACE REQUIRED FOR SAFE ACCESS FOR REWIRING.
- 6) EARTH AND NEUTRAL BARS TO BE EASILY ACCESSIBLE.
- 7) ALL CIRCUIT BREAKERS TO BE FITTED WITH TERMINAL SHIELD ON LIVE AND LOAD SIDES.
- 8) ENCLOSURE TO BE IP65, 3CR12.
- 9) PHASING RWB, TOP TO BOTTOM, LEFT TO RIGHT, BACK TO FRONT.
- 10) INTERNAL TEMP TO BE LIMITED TO 5° ABOVE AMBIANT, MAX 40°C.
- 11) ALL CIRCUITS TO BE LABELED.
- 12) 25% SPARE SPACE. SPARE SPACES ARE TO BE FITTED WITH COPPER BUSBAR TAILS CONNECTED TO DROPPER BUSBARS TO ALLOW INSTALLATION OF CIRCUIT BREAKERS WITH A MINIMAL SHUTDOWN PERIOD.
- 13) DB TO BE FITTED WITH A4 LEGEND CARD HOLDER WITH STANDARD IBUYA A4 LEGEND CARD.
- 14) EACH CIRCUIT TO BE LABELED WITH DETAILED DESCRIPTION OF CONNECTED DEVICE.
- 15) EXTERNAL EARTH STUD MOUNTED ADJACENT CABLE ENTRY.

INCOMING CABLE	-TOP
OUTGOING CIRCUITS	-TOP
COLOUR	-RED
MOUNTING	-FLOOR STANDING
ACCESS	-FRONT / REAR
PROTECTIVE DEVICES	-SCHNEIDER
ACB's (1250A-4000A)	-MASTERPACT NW
MCCB'S(800A - 1000A)	-COMPACT NS
MCCB'S(60A-630A)	-EASYPACT CSV
MCB's	-MULTI 9, TYPE 2
CONTACTORS	-AC3 HEAVY DUTY

FIELD			
CIRCUIT No.			
PHASE	R	W	B
DESIGNATION	EXTERNAL LIGHTING	EXTERNAL LIGHTING	EXTERNAL LIGHTING
WIRING	6mm ² 4C PVC SWA PVC ECC CU CABLE	6mm ² 4C PVC SWA PVC ECC CU CABLE	6mm ² 4C PVC SWA PVC ECC CU CABLE
CABLE NO.	XX	XX	XX
LOAD (AMPS)	XX	XX	XX
No. OF POINTS	XX	XX	XX



NOT WITHSTANDING ANYTHING TO THE CONTRARY, ALL RIGHTS RESERVED. NO PART OF THIS DRAWING MAY BE REPRODUCED IN ANY MATERIAL FORM (INCLUDING PHOTOCOPIING OR STORING IN ANY MEDIUM OR BY ELECTRONIC MEANS WHETHER OR NOT TRANSIENTLY OR INCIDENTALLY TO SOME OTHER USE OF THIS DRAWING) AND ALSO, THIS DRAWING MAY NOT BE USED FOR ANY PURPOSE OR REASON OTHER THAN FOR WHICH IT WAS ORIGINALLY ISSUED, WITHOUT THE WRITTEN PERMISSION OF IBUYA CONSULTING ENGINEERS.

ENGINEER	DRAWN	DATE:	SCALE:	CHKD.
K.Singh	NG	22/08/24	NTS PAPER SIZE: A3	KS
PROJECT No.	DRAWING No.	SHEET:	REV.	
23044	402	3 of 3	0	
REV	DESCRIPTION	BY	DATE	CHKD.
0	Original Issue	NG	27/05/25	KS

DRAWING TITLE:	SAPS MSINSINI POLICE STATION
DRAWING TITLE:	Main LV Kiosk Single Line Diagram



IBUYA Consulting Engineers

"POWERING DEVELOPMENT"

BLOCK D
ESSEX PARK
46 ESSEX TERRACE
WESTVILLE
P.O. BOX 1692
WANDSBECK 3631

TEL: +27 (031) 2667332
FAX: +27 (031) 2667340
E-mail: ibuya@ibuya.co.za