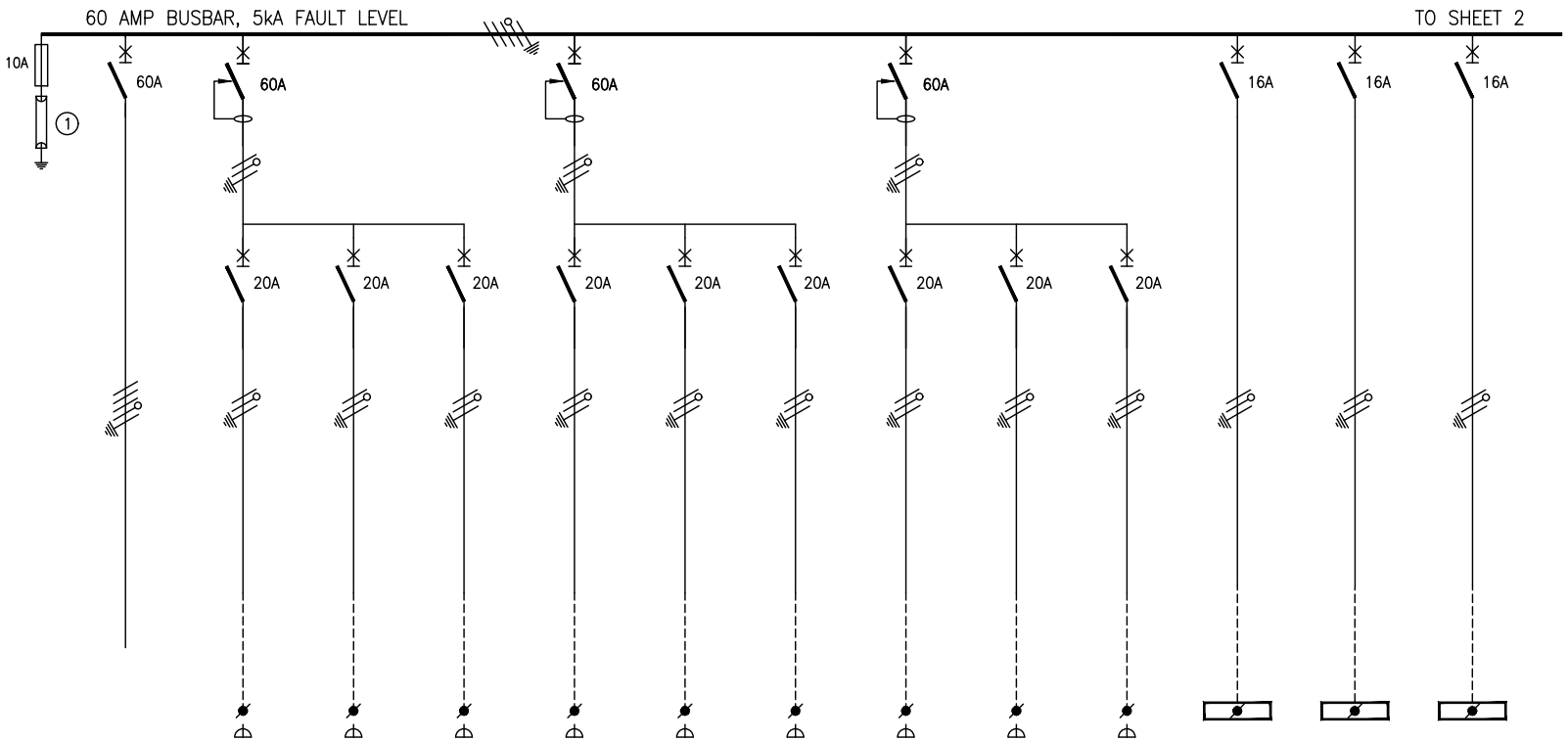


FIELD													
CIRCUIT No.		P1	P2	P3	P4	P5	P6	P7	P8	P9	L1	L2	L3
PHASE		R	R	R	W	W	W	B	B	B	R	W	B
DESIGNATION	INCOMER FROM DB-2AE	SWITCHED SOCKET OUTLET	SWITCHED SOCKET OUTLET	SWITCHED SOCKET OUTLET	SWITCHED SOCKET OUTLET	SWITCHED SOCKET OUTLET	SWITCHED SOCKET OUTLET	SWITCHED SOCKET OUTLET	SWITCHED SOCKET OUTLET	SWITCHED SOCKET OUTLET	LIGHTING	LIGHTING	LIGHTING
WIRING	16mm² 4 CORE Cu PVC SWA PVC ECC CABLE	3x4mm² PVC INSULATED Cu CONDUCTORS	3x4mm² PVC INSULATED Cu CONDUCTORS	3x4mm² PVC INSULATED Cu CONDUCTORS	3x4mm² PVC INSULATED Cu CONDUCTORS	3x4mm² PVC INSULATED Cu CONDUCTORS	3x4mm² PVC INSULATED Cu CONDUCTORS	3x4mm² PVC INSULATED Cu CONDUCTORS	3x4mm² PVC INSULATED Cu CONDUCTORS	3x4mm² PVC INSULATED Cu CONDUCTORS	3x2.5mm² PVC INSULATED Cu CONDUCTORS	3x2.5mm² PVC INSULATED Cu CONDUCTORS	3x2.5mm² PVC INSULATED Cu CONDUCTORS
LOAD (AMPS)	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
No. OF POINTS	X	X	X	X	X	X	X	X	X	X	X	X	X

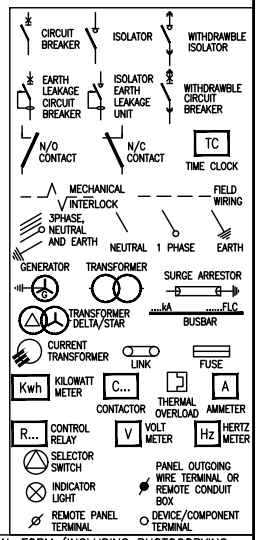
NOTES

1) DROPPERS/TAILS TO BE RATED FOR FULL i²t 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 ACCESIBLE.
7) ALL CIRCUIT BREAKERS TO BE FITTED WITH TERMINAL SHIELD ON LIVE AND LOAD SIDES.
8) ENCLOSURE TO BE IP54.
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 INSTALLATIONOF 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.

DRAWING NOTES

1 CLASS 1+2 SURGE ARRESTORS.

INCOMING	-TOP/BOTTOM
OUTGOING CIRCUITS	-TOP/BOTTOM
COLOUR	-EXTERNAL - RED -INTERAL - RED
MOUNTING	-WALL MOUNTED
ACCESS	-FRONT
PROTECTIVE DEVICES	-SCHNEIDER
ACB's (800A-4000A)	-MASTERPACT NW
MCCB'S (630A-800A)	-COMPACT NS
MCCB'S (100A-630A)	-COMPACT NSX (NEW GEN)
MCCB'S (60A-100A)	-COMPACT NSXm (NEW GEN)
MCB's	-MULTI 9, TYPE 2
CONTACTORS	-AC3 HEAVY DUTY
METERS	-SCHNEIDER
SURGE PROTECTION	-DEHN GUARD



NOT WITHSTANDING ANYTHING TO THE CONTRARY, ALL RIGHTS RESERVED. NO PART OF THIS DRAWING MAY BE REPRODUCED IN ANY MATERIAL FORM (INCLUDING PHOTOCOPYING OR STORING IN ANY MEDIUM OR BY ELECTRONIC MEANS WHETHER OR NOT TRANSIENTLY OR INCIDENTLY 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.

REV	DESCRIPTION	BY	DATE	CHKD.
0	Original Issue	KS	14/01/26	MK

ENGINEER	DRAWN	DATE:	SCALE:	CHKD.
KS	SVJ	Jan'26	NTS PAPER SIZE: A3	MK
PROJECT No.	DRAWING No.		SHEET:	REV.
25024	424		1 of 2	0

File Name : 25024_424_0 Lyr:

TITLE

DPWI Ulundi Legislative Building
LA Building

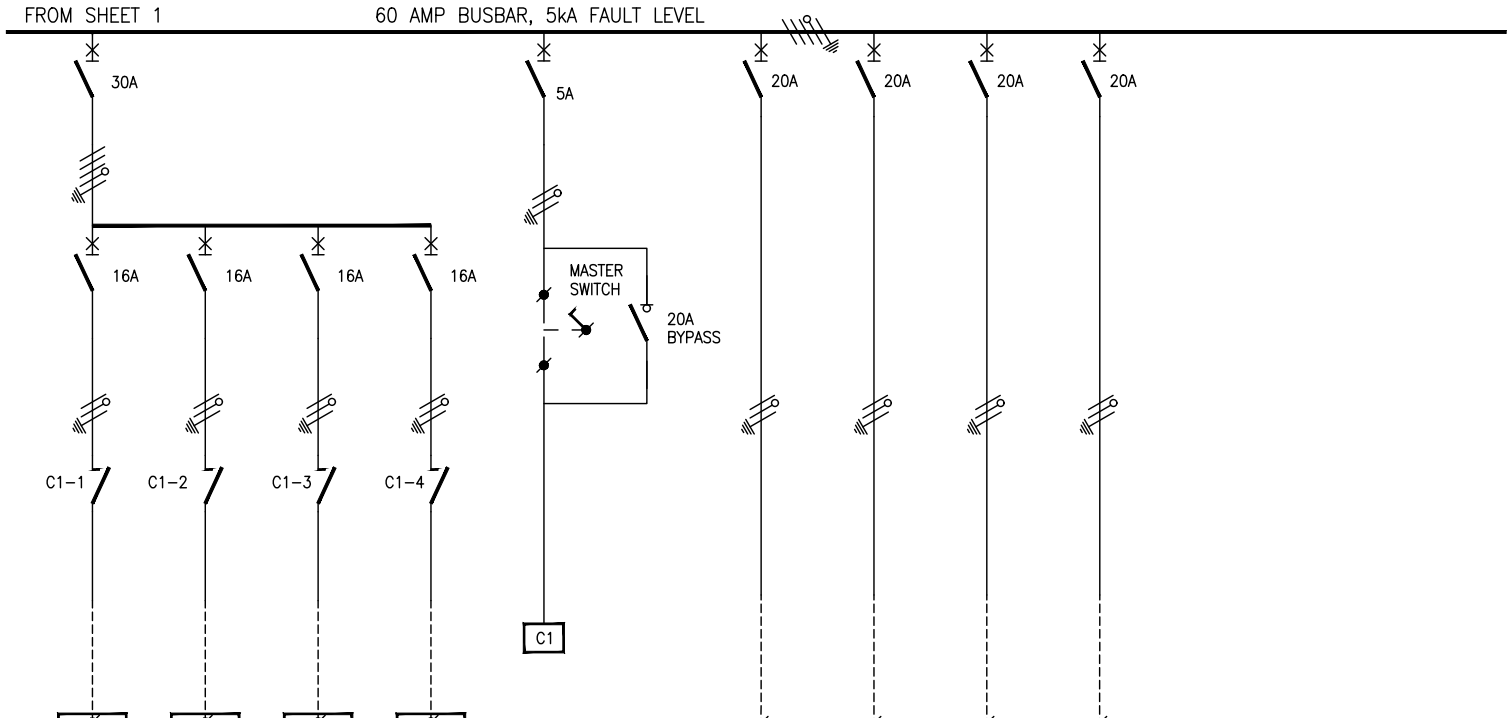
DRAWING TITLE:

DB-2BE (Essential)
Distribution Board
Single Line Diagram

IBUYA Consulting Engineers
"POWERING DEVELOPMENT"

BAKER TILLY HOUSE
FIRST FLOOR
18 WESTVILLE ROAD
WESTVILLE
P.O. BOX 1469
WESTVILLE 3630

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



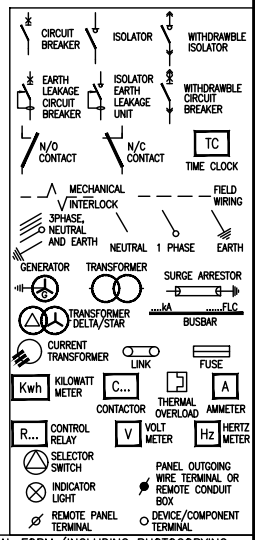
FIELD CIRCUIT No.	L4	L5	L6	L7		E1	E2	E3
PHASE	R	W	B	R		R	W	B
DESIGNATION	LIGHTING	LIGHTING	LIGHTING	LIGHTING		ISOLATOR	ISOLATOR	ISOLATOR	SPARE
WIRING	3x2.5mm² PVC INSULATED Cu CONDUCTORS	3x2.5mm² PVC INSULATED Cu CONDUCTORS	3x2.5mm² PVC INSULATED Cu CONDUCTORS	3x2.5mm² PVC INSULATED Cu CONDUCTORS		3x4mm² PVC INSULATED Cu CONDUCTORS	3x4mm² PVC INSULATED Cu CONDUCTORS	3x4mm² PVC INSULATED Cu CONDUCTORS	
LOAD (AMPS)	XX	XX	XX	XX		XX	XX	XX	XX
No. OF POINTS	X	X	X	X		X	X	X	X

NOTES

1) DROPPERS/TAILS TO BE RATED FOR FULL i²t 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 ACCESIBLE.
7) ALL CIRCUIT BREAKERS TO BE FITTED WITH TERMINAL SHIELD ON LIVE AND LOAD SIDES.
8) ENCLOSURE TO BE IP54.
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 INSTALLATIONOF 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.

DRAWING NOTES

① CLASS 1+2 SURGE ARRESTORS.



NOT WITHSTANDING ANYTHING TO THE CONTRARY, ALL RIGHTS RESERVED. NO PART OF THIS DRAWING MAY BE REPRODUCED IN ANY MATERIAL FORM (INCLUDING PHOTOCOPYING OR STORING IN ANY MEDIUM OR BY ELECTRONIC MEANS WHETHER OR NOT TRANSIENTLY OR INCIDENTLY 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.

REV	DESCRIPTION	BY	DATE	CHKD.
0	Original Issue	KS	14/01/26	MK

ENGINEER	DRAWN	DATE:	SCALE:	CHKD.
KS	SVJ	Jan'26	NTS	MK
			PAPER SIZE: A3	
PROJECT No.	DRAWING No.		SHEET:	REV.
25024	424		2 of 2	0

File Name : 25024_424_0 Lyr:

TITLE

DPWI Ulindi Legislative Building
LA Building

DRAWING TITLE:

DB-2BE (Essential)
Distribution Board
Single Line Diagram

IBUYA Consulting Engineers
"POWERING DEVELOPMENT"

BAKER TILLY HOUSE
FIRST FLOOR
18 WESTVILLE ROAD
WESTVILLE
P.O. BOX 1469
WESTVILLE 3630

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