









LEGEND	
ICON	DESCRIPTION
	220V FEED (16mm 2-CORE CABLE)
	SUPPLY FROM LOCAL AUTHORITY)
	LINE TO BOREHOLE (10mm 2-CORE CABLE)
	AC SOLAR INFEED
	MAIN DISTRIBUTION BOARD
	SOLAR SECTION IN DB
	LOCAL DISTRIBUTION BOARD
 S1	SOLAR STREET LIGHT



Design by Simplysustainable

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Zimbabwe Idai Recovery
Project
Jopa Women's Market

SITE LAYOUT

Project no.	REQ-ZIM 2021-117
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Date	09/03/2022
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Drawn by	LC
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Checked by	JvT
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E-100

Scale	1 : 250
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Scale	1 : 250
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NOTES:

1. APPLICABLE STANDARDS:
10142-1, 10313, 60839-1, 62305-2, 62305-3 & 62305-4.
2. DRAWING NOTIONS FORM PART OF THE SPECIFICATION.
3. THE EARTH RING SHOWN SHALL BE TESTED FOR AN EARTH RESISTANCE VALUE OF LESS THAN 1Ω. SHOULD THIS VALUE NOT BE ACHIEVED THEN THE SYSTEM SHALL BE EXPANDED WITH ADDITIONAL EARTH CONDUCTORS AND ELECTRODES UNTIL THE REQUIRED RESISTANCE IS ACHIEVED.
4. AT LEAST ONE TEST MANHOLE SHALL BE PROVIDED.
5. THE EARTH MAT SHALL SERVE AS BOTH AN ELECTRICAL AND LIGHTNING PROTECTION EARTH SYSTEM. ALL BUILDING STEEL COLUMNS, OR THEIR BOLT CAGES, SHALL BE BONDED TO THE EARTH RING AS PER THE PARTICULAR SPECIFICATION.
6. THE EARTH MAT SHALL BE INSTALLED AT A MINIMUM DISTANCE OF 1m FROM THE BUILDING AND WITHIN AN 1m DEEP TRENCH.
7. EARTH ELECTRODES SHALL BE INSTALLED AS PER PARTICULAR SPECIFICATION AT EACH POINT SHOWN AND THEIR TOPS SHALL BE SEMI FLUSH WITH THE BOTTOM OF THE TRENCH.
8. EARTH CONDUCTORS SHALL BE 70 mm² BARE COPPER EARTH.
9. EARTH CONDUCTOR TAILS FROM STEEL COLUMNS OR REBAR CONNECTIONS, SHALL BE 70 mm² AS SPECIFIED UNDER PARTICULAR SPECIFICATION.
10. ALL BONDS AND CONNECTIONS TO CONDUCTORS, REBAR AND STEEL COLUMNS, SHALL BE INSPECTED AND APPROVED BY THE ENGINEER BEFORE COVERING UP THE WORK.
11. EARTH BARS SHALL BE INSTALLED AS SHOWN ON THE DRAWINGS AND THE BARS SHALL BE INTERCONNECTED TO THE EARTH RING.
12. THE EARTH BAR BELOW THE COMMUNICATION ROOM SHALL BE A DEDICATED INSTRUMENT EARTH BAR AND USED SOLELY FOR INSTRUMENT EARTH CONNECTIONS. THIS BAR SHALL BE CONNECTED TO THE EARTH RING AT ONE POINT AS SHOWN ON THE DRAWING.
13. ALL EARTH BAR INTERCONNECTIONS AND CONNECTION TO THE EARTH RING SHALL BE DONE USING 70 mm² AS SPECIFIED UNDER THE PARTICULAR SPECIFICATION. ALL ABOVE GROUND BONDING SHALL BE DONE WITH KWENA CABLE.
14. ELECTRICAL CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT DOORS ARE FITTED WITH EARTH STUDS AND EARTH WIRES, AND THAT THEY ARE CONNECTED TO THE EARTH BAR.
15. ONLY INDIVIDUALLY RUN EARTH WIRES ARE SHOWN HERE. EARTH WIRES FORMING PART OF A MULTI CORE CABLE ARE NOT INDICATED ON THE DRAWING.
16. EQUIPOTENTIAL BONDING AS PER PARTICULAR SPECIFICATION.



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EARTHING SITE LAYOUT

Project no. REQ-ZIM 2021-117

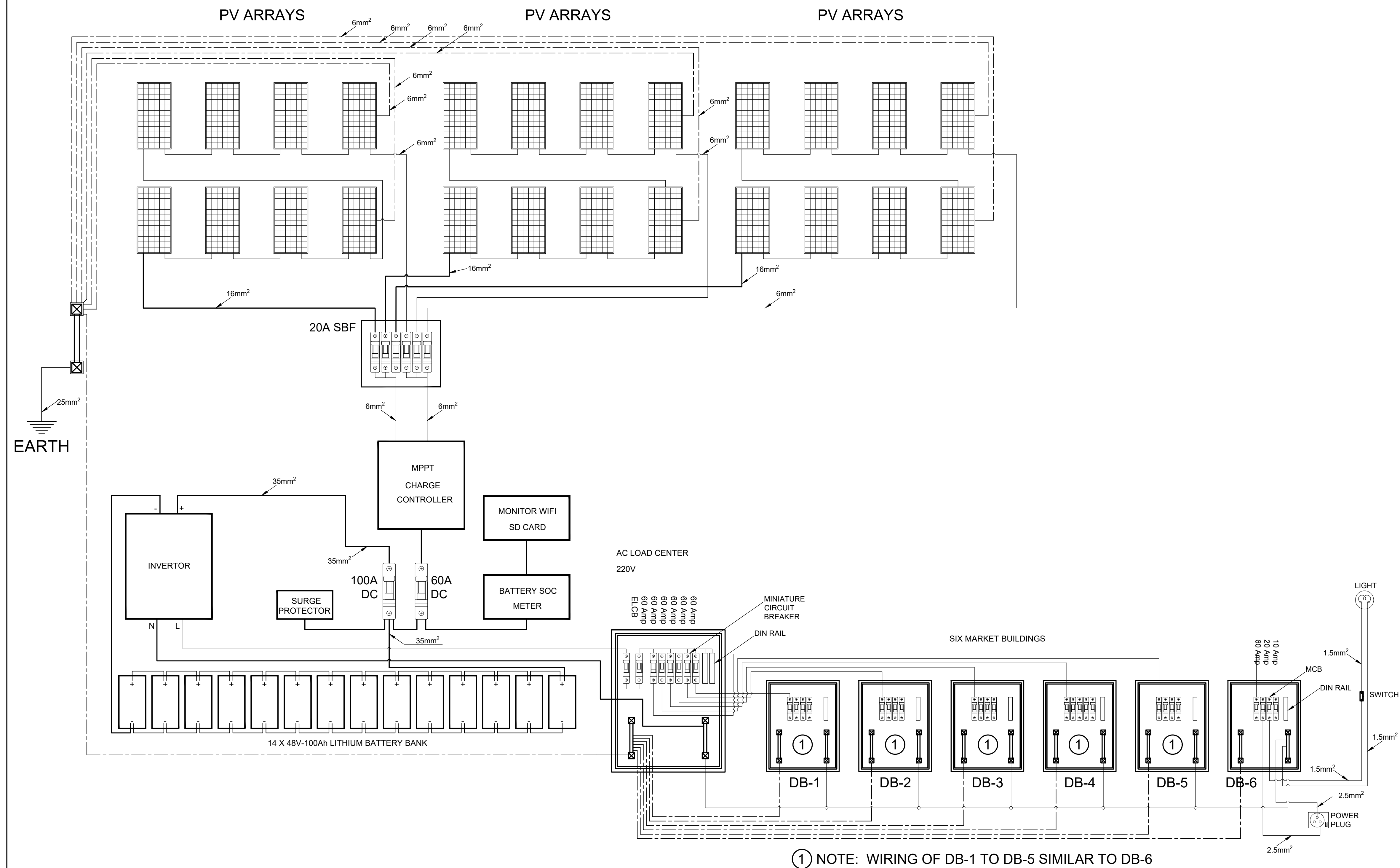
Date	11/04/2022
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Drawn by	LC
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Checked by	JvT
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E-102

Scale 1 : 250



① NOTE: WIRING OF DB-1 TO DB-5 SIMILAR TO DB-6

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Zimbabwe Idai Recovery
Project

Jopa Women's Market

SOLAR SCHEMATIC DIAGRAM

Project no. REQ-ZIM 2021-117

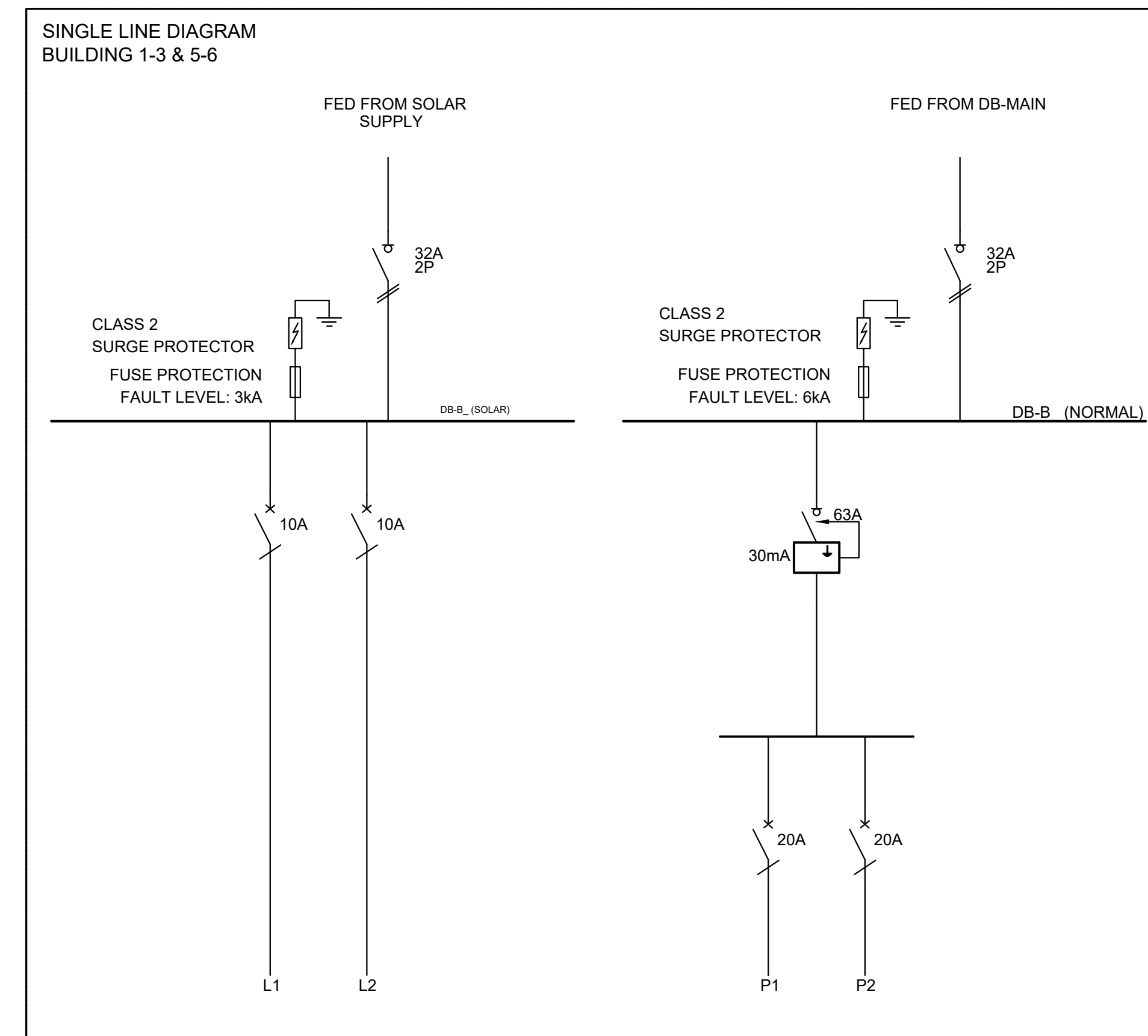
Date	11/04/2022
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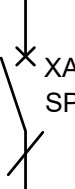
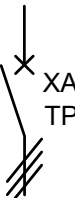



Drawn by	LC
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Checked by	JvT
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E-203

Scale	1 : 1
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SYMBOL	DESCRIPTION
	SINGLE POLE CIRCUIT BREAKER
	THREE POLE CIRCUIT BREAKER
	SINGLE POLE ISOLATOR
	EARTH LEAKAGE PROTECTION
	kW/h METER

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Zimbabwe Idai Recovery
Project

Jopa Women's Market

TYPICAL STALLS - ELECTRICAL PLAN

Project no. REQ-ZIM 2021-117

Date	09/03/2022
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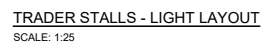
Drawn by MH

Checked by	JvT
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E-2104

Scale	1 : 100
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Zimbabwe Idai Recovery Project	
Jopa Women's Market	
<p>TRADER STALLS - LIGHTING LAYOUT</p>	
Project no.	REQ-ZIM 2021-117
Date	09/03/2022
Drawn by	MR
Checked by	JvT
E-4101	
Scale	1 : 25

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