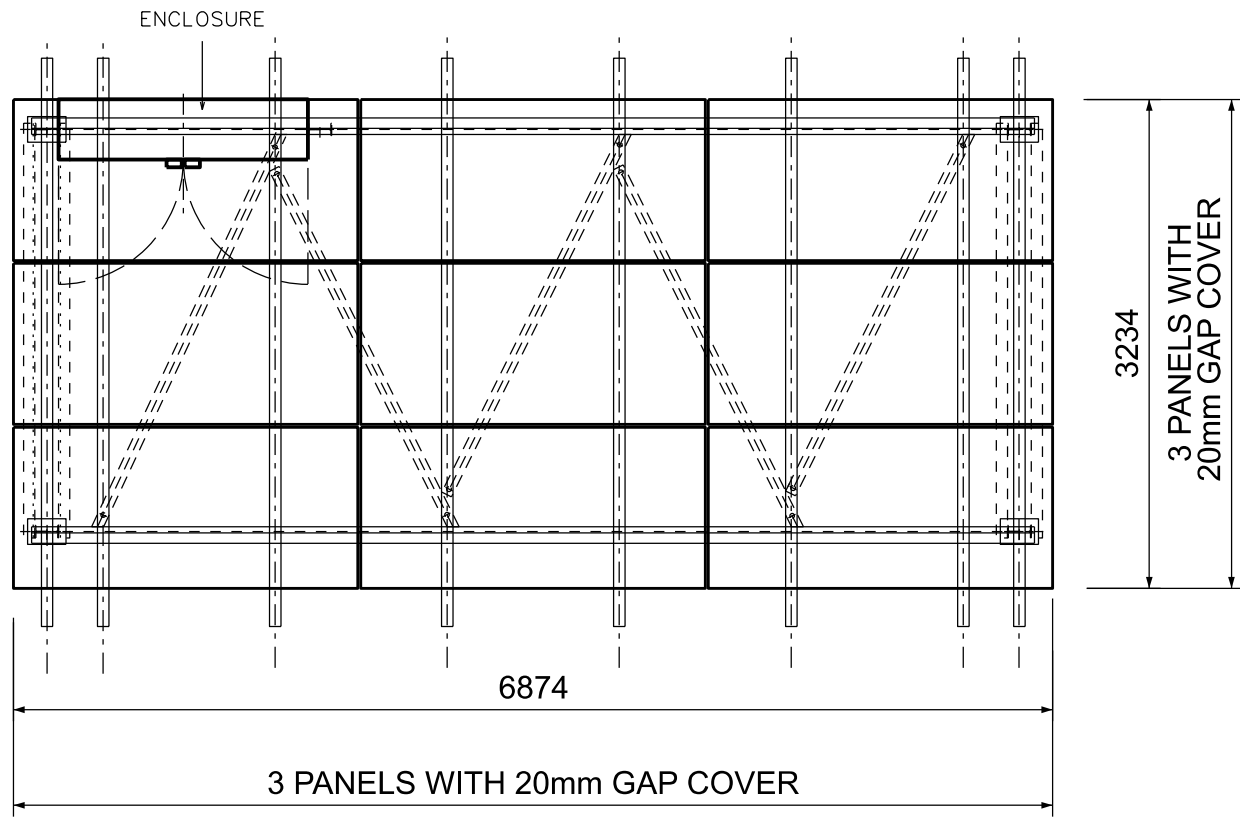
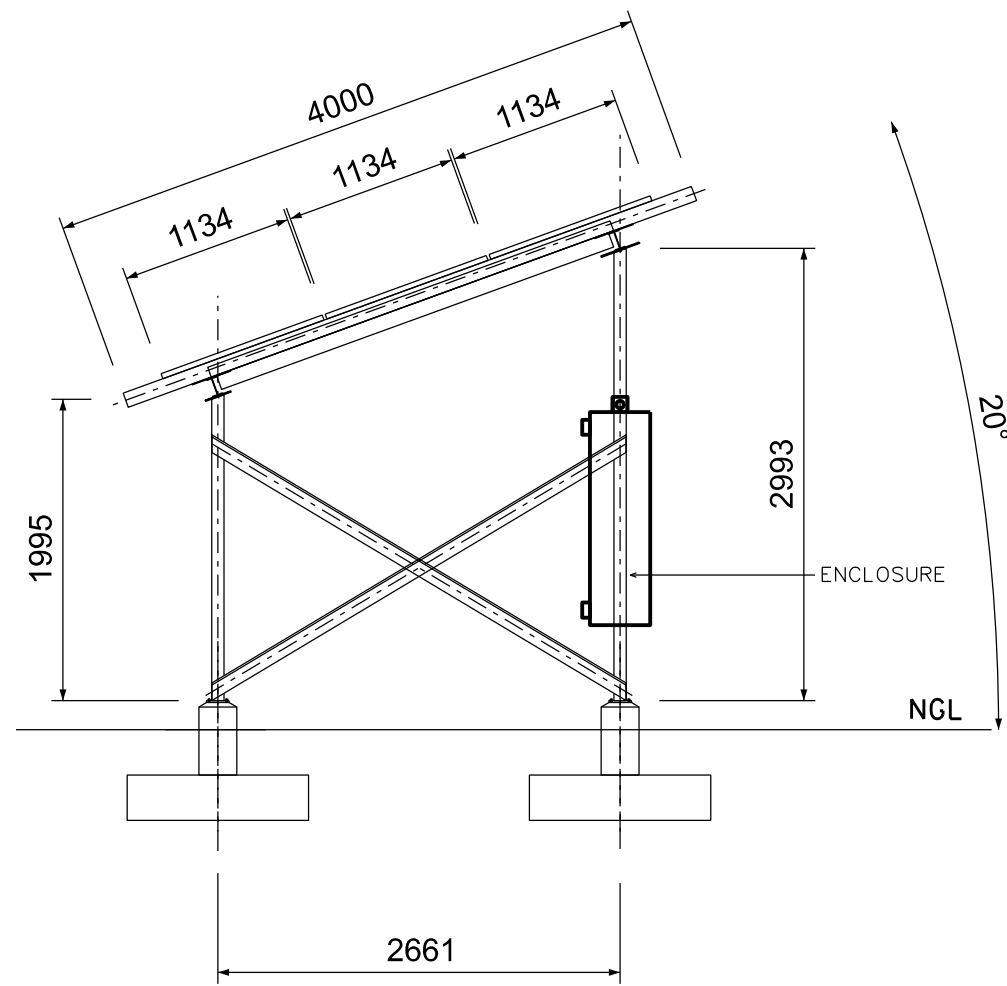
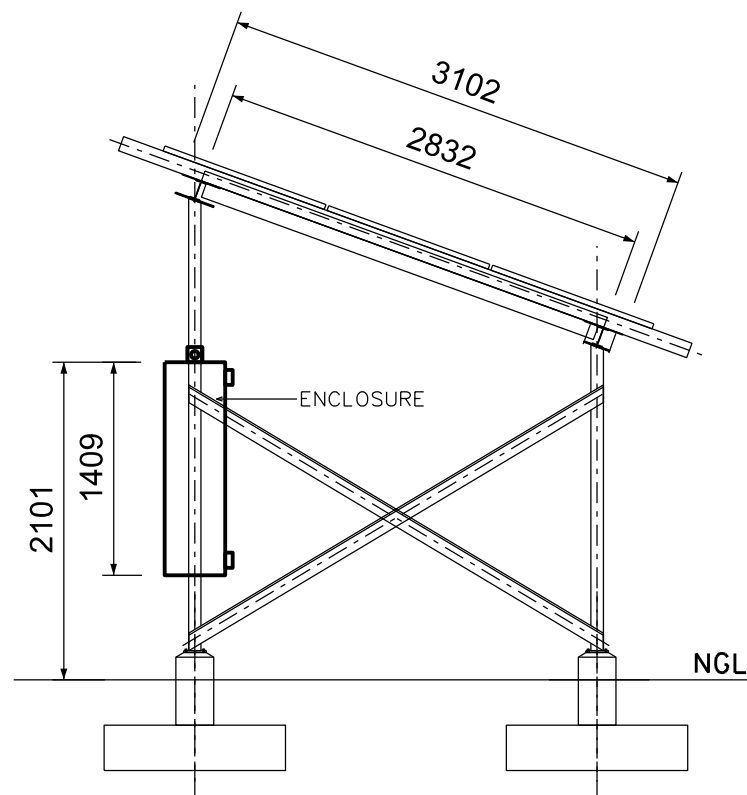




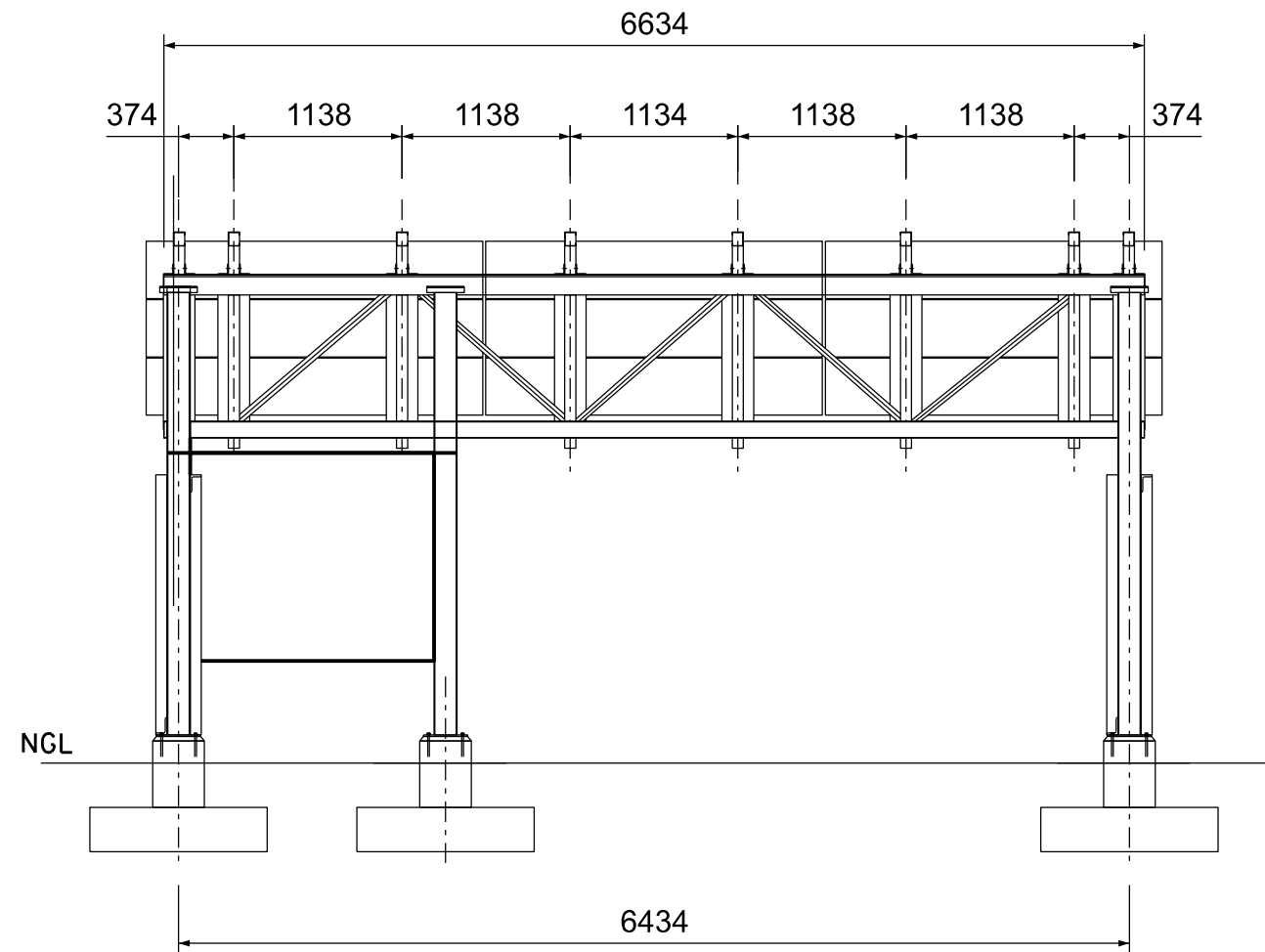
PLAN VIEW
1:100



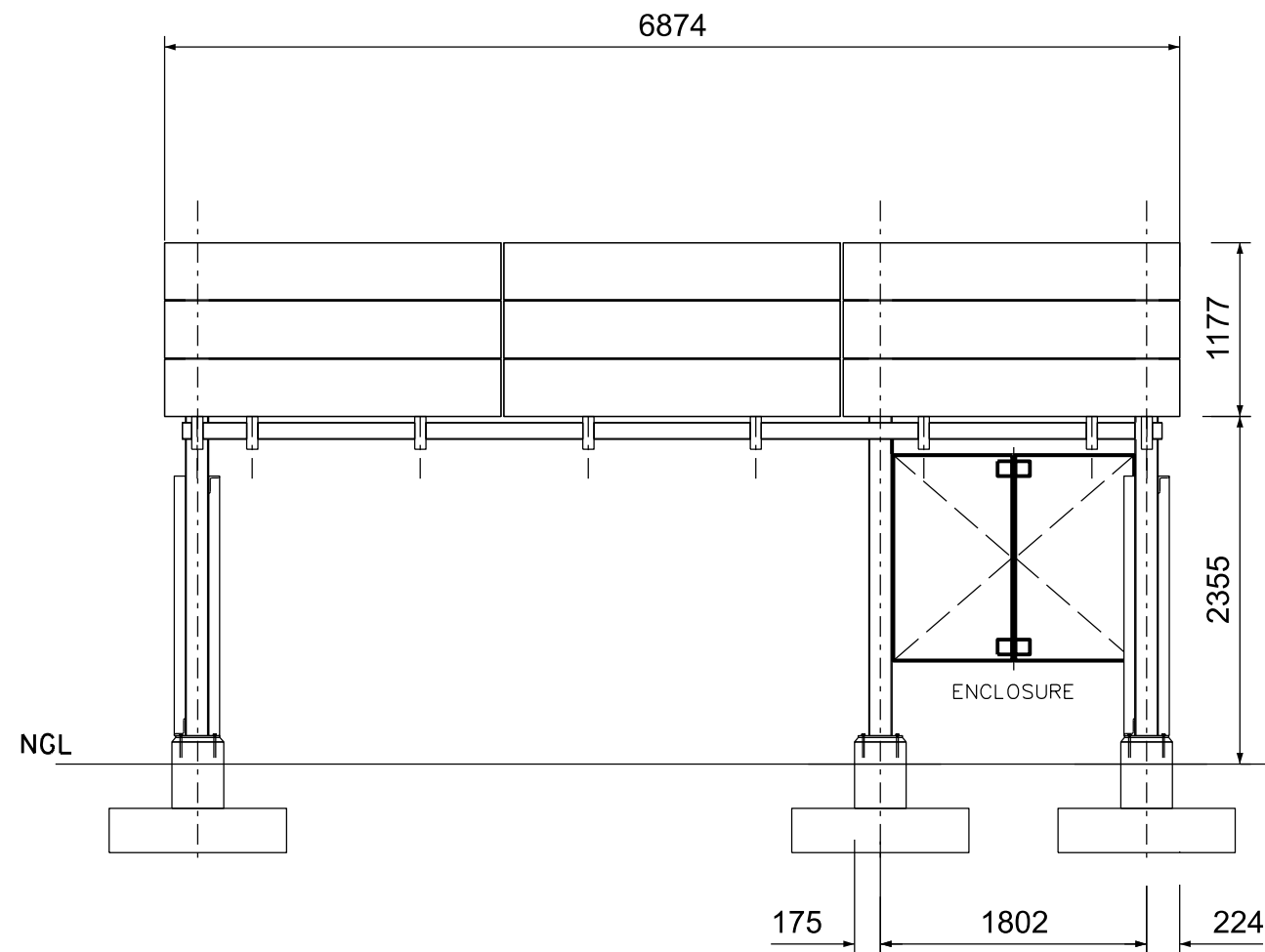
SIDE VIEW
1:100



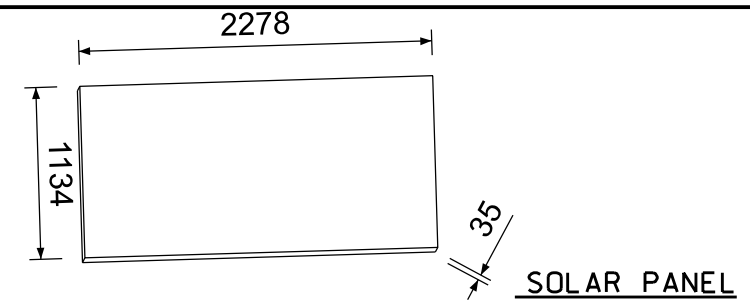
SIDE VIEW
1:100



FRONT VIEW
1:100



BACK VIEW
1:100



STRUCTURAL STEEL NOTES

1. ALL STRUCTURAL STEELWORK TO BE HOT-DIP GALVANIZED
2. DRAWING DIMENSIONS IN MM.
3. ALL WORK TO BE IN ACCORDANCE WITH SANS 1200H.
4. ALL WELDS TO BE MIN. 6MM CONTINUOUS FILLET WELDS (UNLESS OTHERWISE NOTED).
5. ALL STRUCTURAL STEELWORK TO BE GRADE S355JR (UNLESS OTHERWISE NOTED).
6. ALL BOLTS TO BE GRADE 8.8 BOLTS AND TO BE HOT DIPPED GALVANISED TO SANS 121:2011 (ISO 1461:2009 (E)).
7. ALL STRUCTURAL STEELWORK, BOLTS, NUTS AND WASHERS TO BE HOT DIPPED GALVANISED TO SANS 121:2011 (ISO 1461:2009 (E)). GALVANISING CERTIFICATE FOR ALL STEEL WORK IS TO BE SUBMITTED TO THE ENGINEER ON COMPLETION.
7. IF THE GALVANISING IS DAMAGED OR SCRATCHED DURING THE INSTALLATION PROCESS, IT MUST BE 'TOUCHED UP' WITH COLD GALVANISING.
8. CERTIFICATES CONFIRMING THE GRADE STRESS OF ALL STEEL WORK, PURLINS AND BOLTS SPECIFIED IS TO BE SUBMITTED TO THE ENGINEER ON COMPLETION.
9. ALL WORK IS TO COMPLY WITH SANS 1200.
10. - COLUMN - IPE 160 I1
- RAFTER - IPE AA 140 I1
- PURLIN - 100 X 75 X 20 X 2.0 L1
- DIAGONAL - 100 X 75 X 20 X 2.0 L1
- CLEAT - 70 X 70 X 6

FOUNDATION NOTES

1. CONCRETE WORK TO BE IN ACCORDANCE WITH SANS 1200.
2. CONCRETE STRENGTH AT 28 DAYS=25MPa.
3. CONCRETE STRENGTH FOR BLINDING LAYER AT 28 DAYS=15MPa.
4. ALL TOP EDGES OF FOUNDATION TO HAVE 25-35mm CHAMFER.
5. FOR HEIGHT OF FOUNDATION SEE FOUNDATION LAYOUT.
6. COMPACTING OF THE BOTTOM OF FOUNDATIONS SHALL BE COMPACTED TO 93% MOD. AASHTO.
7. MIN 25mm THICK NON-SHRINK GROUT.
8. OFF SHUTTER FINISH TO UPPER SIDES OF FOUNDATION TO EXTEND TO 100mm BELOW GROUND LVL.
9. ONLY STEEL SHUTTERING MAY BE USED.
10. ONLY STEEL TEMPLATE MAY BE USED FOR SETTING H.D. BOLTS.
11. BOLTS, NUTS & WASHERS TO BE IN ACCORDANCE WITH SANS 1700.
12. H.D. BOLTS AND NUTS TO PROTRUDE 100mm ABOVE FINISHED FOUNDATION LEVEL.
13. NON-OXIDE IS TO BE USED ON ALL EARTH CONNECTIONS TO H.D. BOLTS.
14. ALL EARTHING TO CONFORM TO D-DT-5240.
15. REINFORCING TO HAVE A MIN CONCRETE COVER OF 75mm.
16. ALL REINFORCING SPLICED TO HAVE A LAPPED LENGTH OF 42X DIAMETER OF REINFORCING BAR.
17. ALL REINFORCING BARS TO BE MEASURED & BENT IN ACCORDANCE TO SANS 1478.
18. FOR PRICING THE AVERAGE LENGTH OF 15m FLAT COPPER INCLUDES THE COPPER BETWEEN FOUNDATION AND MAIN EARTH MAT AND 4X3m TAILS. FLAT COPPER TO HAVE MIN. DEPTH OF 500mm.
19. NO CONCRETE TO BE POURED WHERE THE AIR TEMPERATURE WILL DROP BELOW 4 DEG CELSIUS IN 8 HRS AFTER POURING OF CONCRETE UNLESS A SUITABLE APPROVED ADDITIVE IS ADDED TO THE CONCRETE MIX.
20. THIS FOUNDATION IS ONLY FOR SOIL TYPE 1,2, AND 3.

LOADING

1. THE STRUCTURE HAS BEEN DESIGNED FOR:
 - DEAD LOADS (SELF-WEIGHT OF STRUCTURE).
 - PV MODULE LOADS 32.5KG PER PANEL WITH A PANEL AREA OF 278 X 1.134M
 - MAINTENANCE LOADS.
 - WIND UPLIFT AND DOWNWARD WIND LOADING- USING 44M/S
 - COMBINATION LOAD CASES IN ACCORDANCE WITH SANS 10160.

2. NO ADDITIONAL EQUIPMENT OR LOADS SHALL BE ATTACHED TO THE STRUCTURE WITHOUT APPROVAL FROM THE ENGINEER.

BEARING CAPACITY

1. FOUNDATIONS HAVE BEEN DESIGNED FOR A SOIL TYPE 3 ALLOWABLE BEARING PRESSURE OF 75KPA AND A MINIMUM NATURAL SPECIFIC WEIGHT = 14 KN/M³

ISSUED FOR TENDERING ONLY NOT
FOR CONSTRUCTION

						CHECKED	AUTHORIZED
						<i>Hlopho</i>	<i>PDC Chetty</i>
						DRAWN	05/08/2026
						T NGUBO	
						05/08/2026	
00	TN	BRH	PDC	05.08.26	FIRST ISSUE	SCALE	1:100
REV	DRAWN	CHKD	APPROVED	DATE	REVISION DESCRIPTION		

MASHAQIYA SOLAR HOME
SYSTEM PROJECT

CIVIL - GENERAL ARRANGEMENT

DRAWING NUMBER	
KZN-EBC-2403-1190868	
SHEET	REVISION
1 OF 4	00