

132 kV TRANSGRID LINE WITH 40m EASEMENT

66kV ESSENTIAL ENERGY LINE WITH 30m EASEMENT

ACCESS GATE

HV SWITCHBOARD

SITE AMENITY

UNDERGROUND HV CABLE

INTERNAL ROAD

INVERTER STATION

BATTERY CONTAINERS (NOTE 6)

SECURITY FENCE

MIN. 6m WIDE VEGETATION

BIODIVERSITY VALUES MAP OVERLAY

40m WIDE SETBACK

LAND BOUNDARY

SITE LAYOUT (1:1500)

SITE SPECIFICATIONS

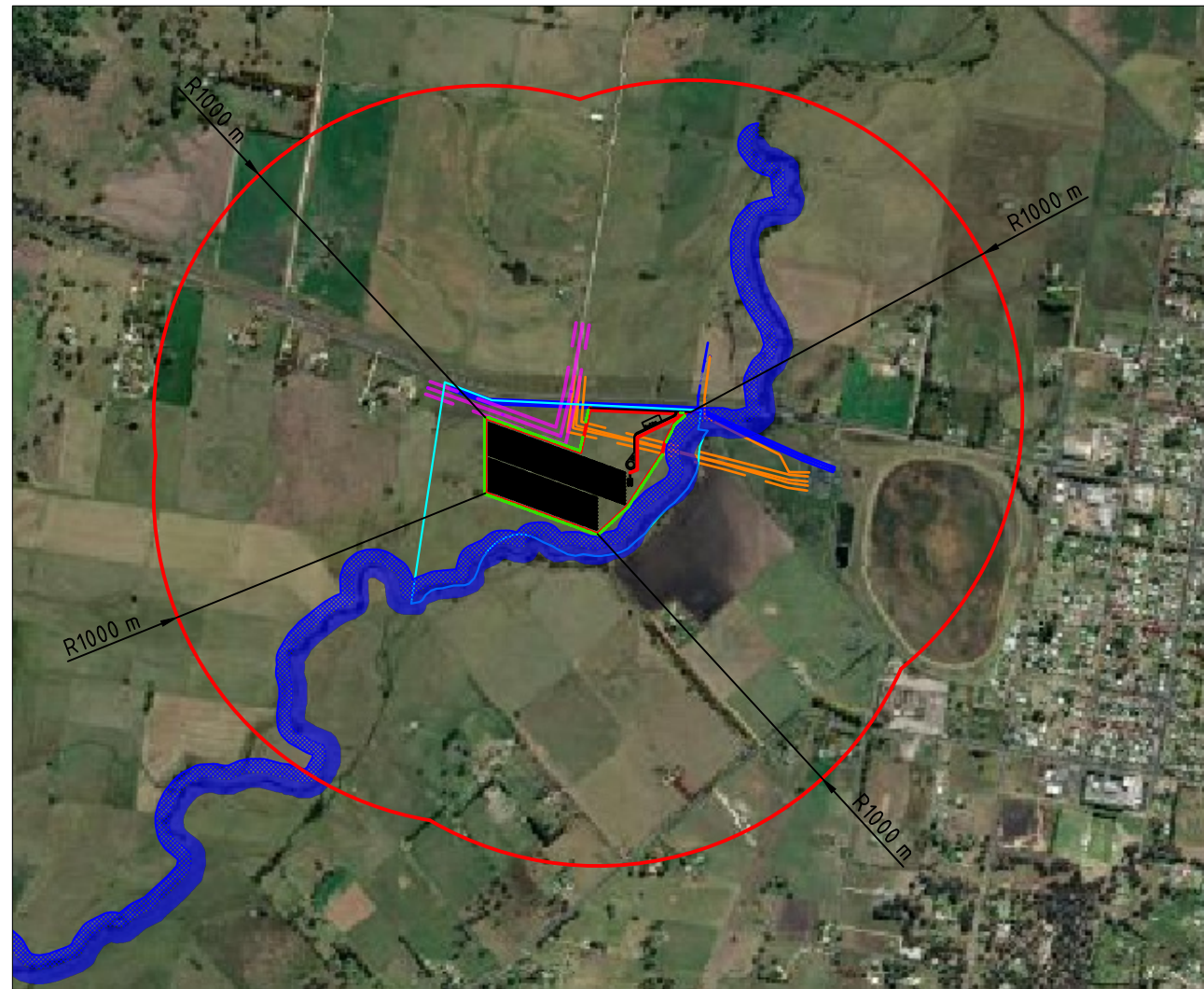
FENCE PERIMETER	1767	m
AREA WITHIN FENCE	13.64	Ha
PV AREA	7.51	Ha
PAVED AREA	-	m ²

No	DATE	DRN	CHK	ENG	Q.A.	PROJECT	REVISION	DESCRIPTION	NUMBER	TITLE
E	30/08/24	D.S.	ACE	D.S.	ACE	NSW-158		UPDATE SETBACK AREA		
D	19/06/24	D.S.	ACE	D.S.	ACE	NSW-158		UPDATE SITE BOUNDARY		
C	29/04/24	D.S.	ACE	D.S.	ACE	NSW-158		UPDATE SITE PLAN		
B	05/04/24	D.S.	ACE	D.S.	ACE	NSW-158		UPDATE SITE PLAN		
A	16/05/23	M.G.	ACE	M.G.	ACE	NSW-158		DRAFT LAYOUT		



409 GWYDIR HWY, GLENN INNES, NSW, 2370
4.95MVA PV & BESS EXPORT SYSTEM
SITE PLAN

DATE: 30/08/24	DRN: M.G.	CHK: ACE	ENG: M.G.	Q.A: ACE	SCALE: 1:1500
PROJ No: NSW-158	DRG No:				REV E



LOCALITY PLAN

NOTES

- ACTUAL DIMENSIONS AND CLEARANCES MAY VARY SUBJECT TO SITE CONDITIONS.
- DIMENSIONS OF ELECTRICAL EQUIPMENT ARE INDICATIVE ONLY. ACTUAL DIMENSIONS TO BE CONFIRMED.
- EXISTING ESSENTIAL ENERGY 11kV POLES ARE ILLUSTRATIVE ONLY. ACTUAL POSITION IS SUBJECT TO THE ACTUAL MEASUREMENT ON SITE.
- TWO NEW POLES WILL BE INSTALLED TO CARRY OVERHEAD POWER LINES AND CONNECT TO ESSENTIAL ENERGY NETWORK.
- SITE STORAGE AND AMENITY FACILITIES TO BE ON SITE ONLY DURING CONSTRUCTION PHASE. NO PERMANENT BUILDINGS TO BE KEPT ON SITE AFTER CONSTRUCTION COMPLETED.
- THE NUMBER OF BATTERY CONTAINERS IS FOR INDICATION ONLY AND VARIES FROM 2 TO 8.

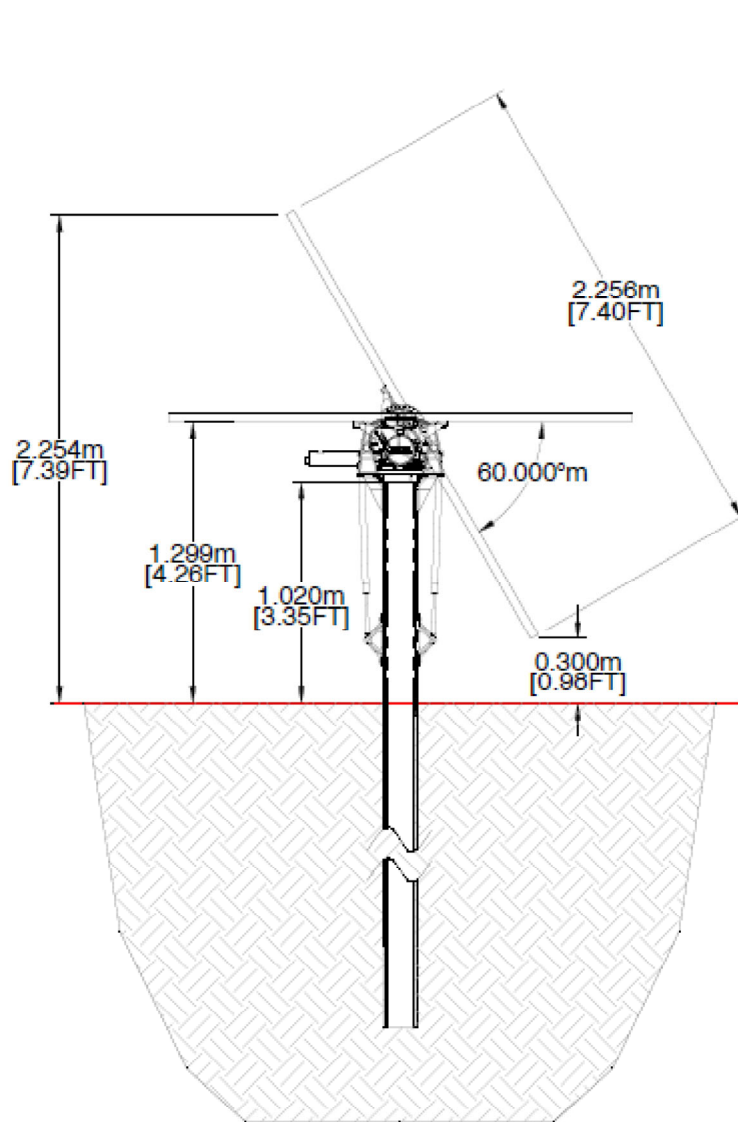
LEGEND

- PROPOSED PV ARRAY
- SECURITY FENCE
- PROPERTY BOUNDARY

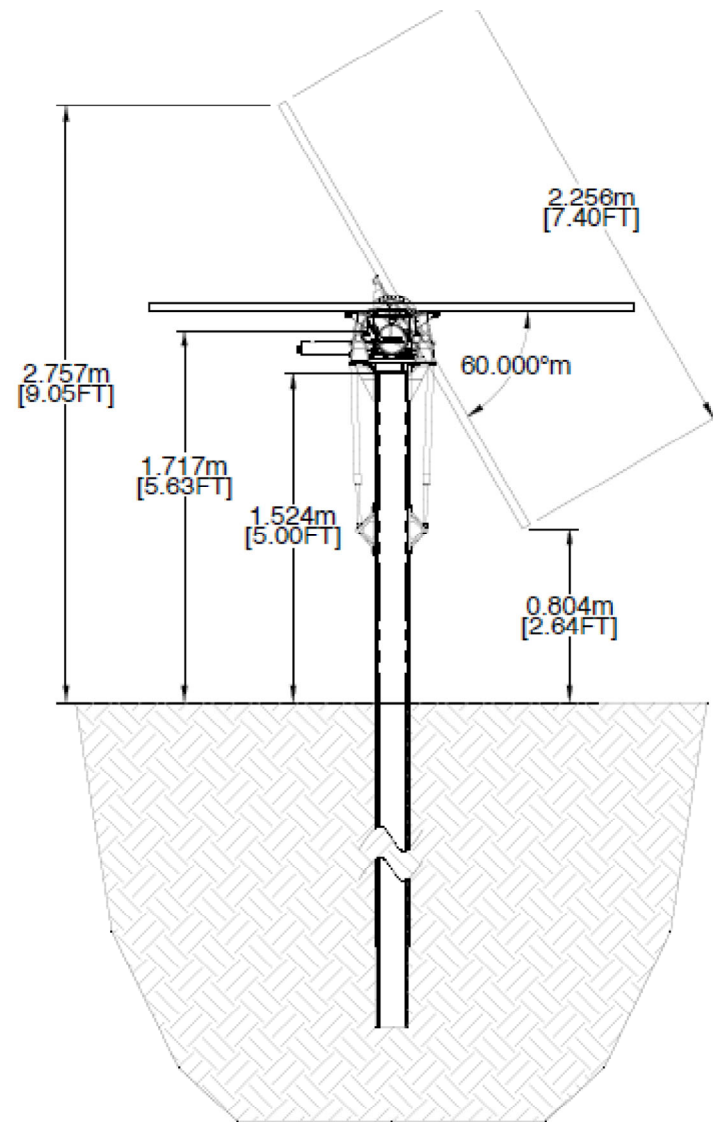
SYSTEM SPECIFICATIONS

DC	5.52	MW	TOTAL MODULES	10044
MODULE CAPACITY	550	W	MODULES PER STRING	27
NUMBER OF INVERTERS	1	-	NUMBER OF STRINGS	372
INVERTER MODEL	SG4950HV-MV	-	MODULE MODEL	LR5-72HPH-550M
NUMBER OF BATTERIES	TBD	-	BATTERY MODEL	ST-2752UX

FOR INFORMATION

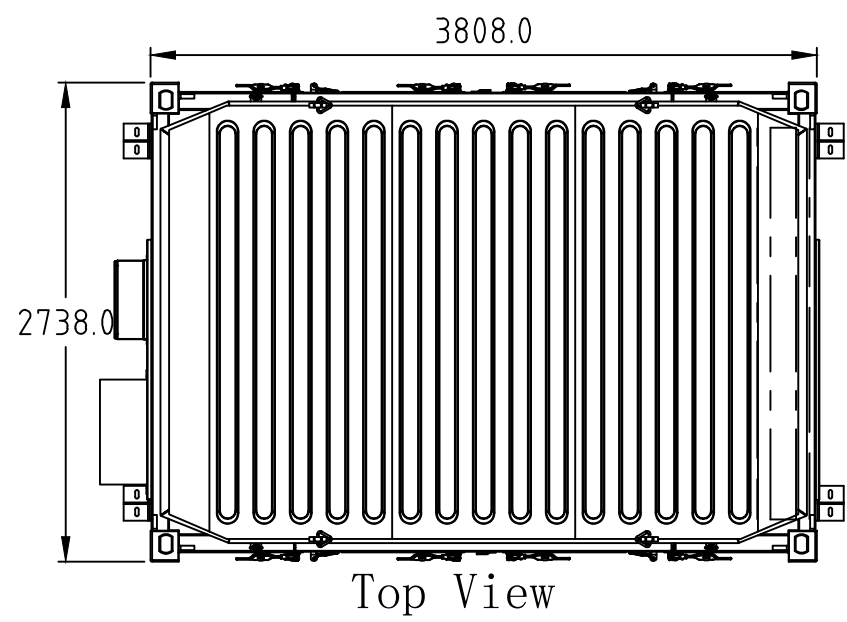
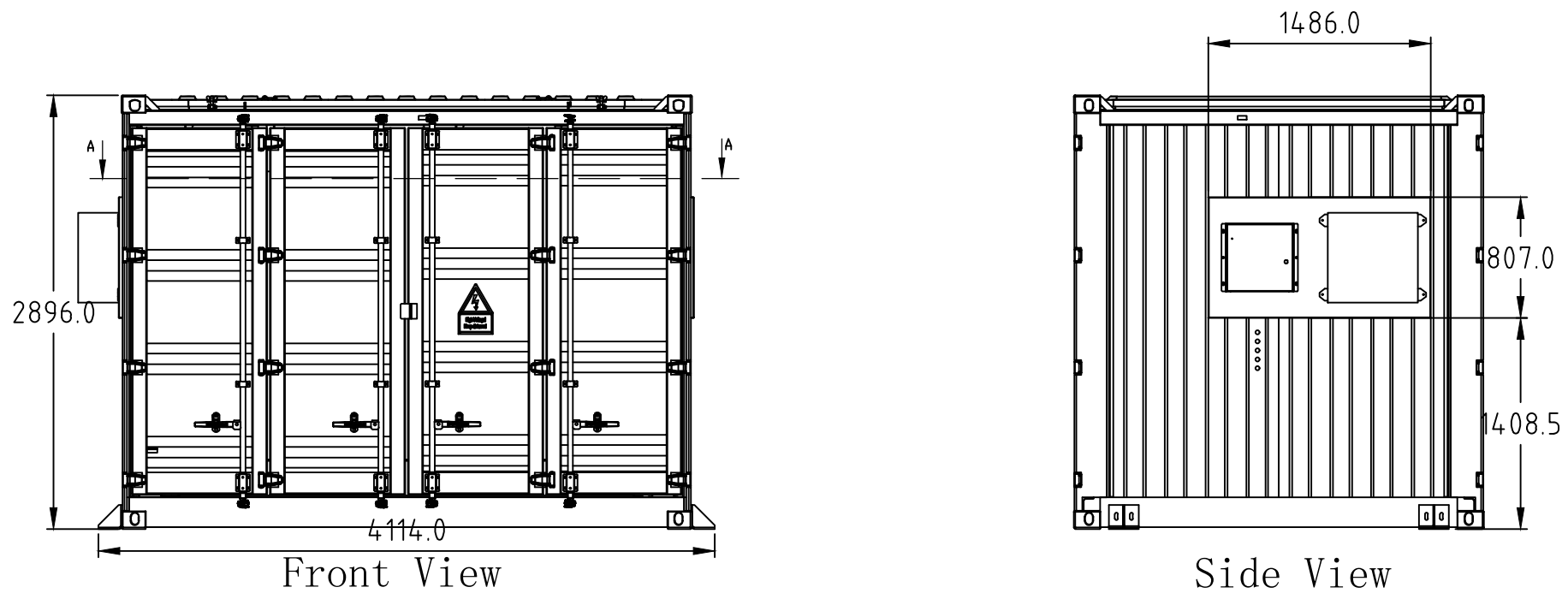


1A TYPICAL MINIMUM PIER HEIGHT DETAIL
SCALE: N.T.S.

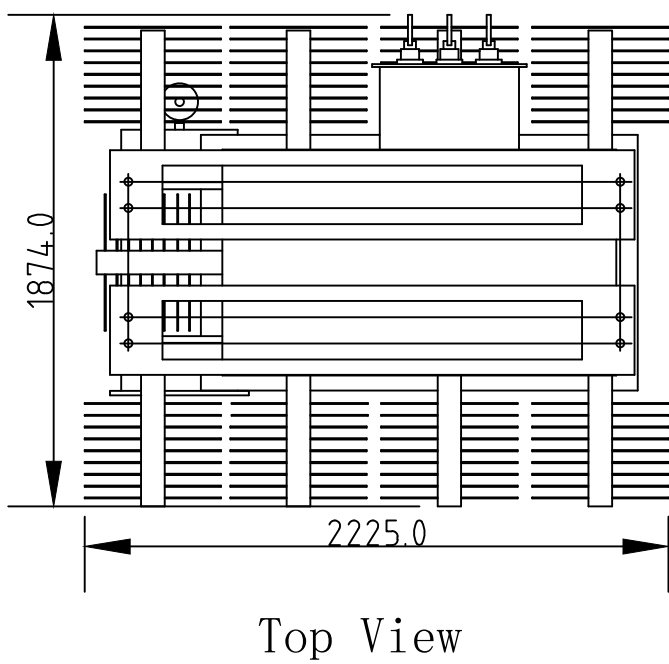
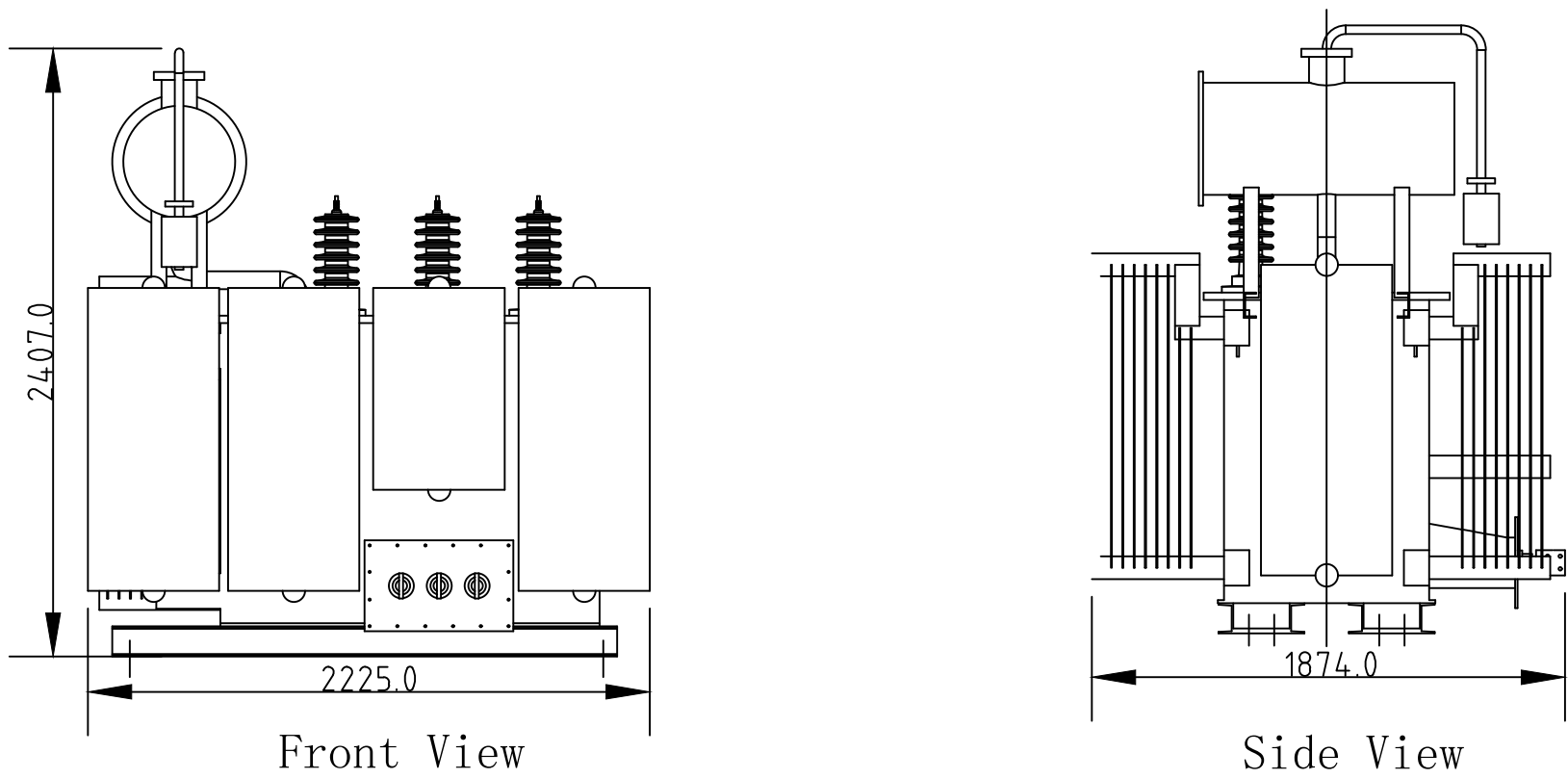


1B TYPICAL MAXIMUM PIER HEIGHT DETAIL
SCALE: N.T.S.

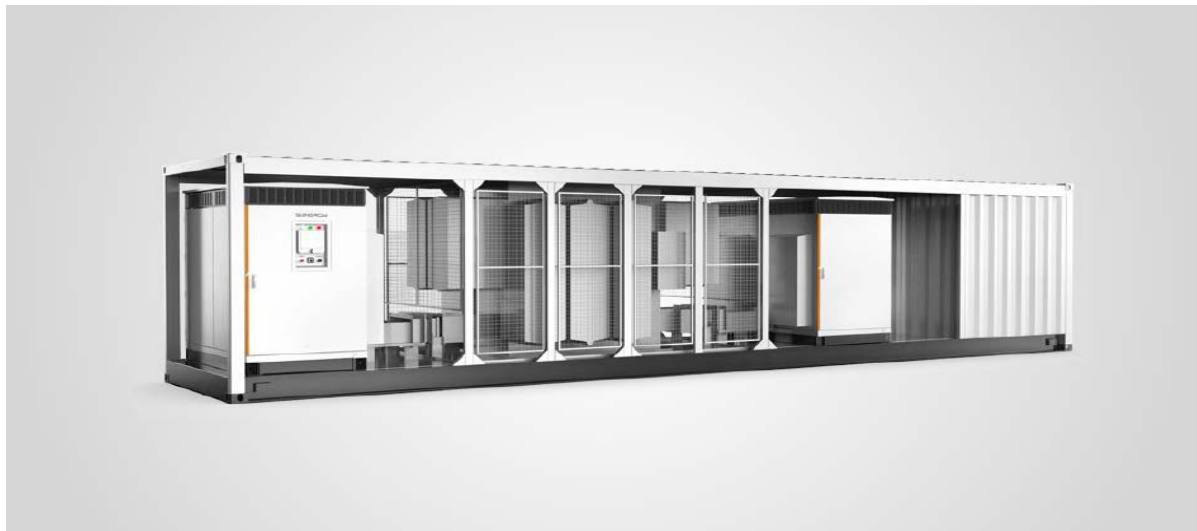
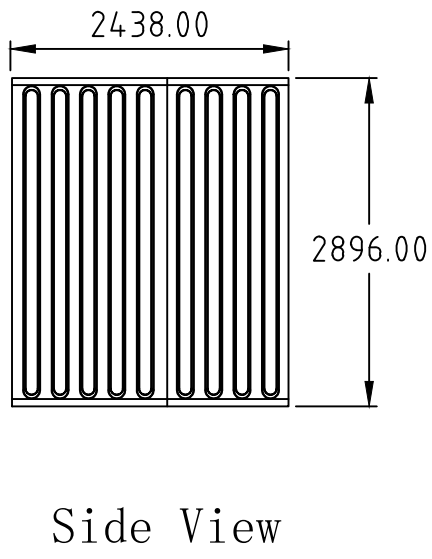
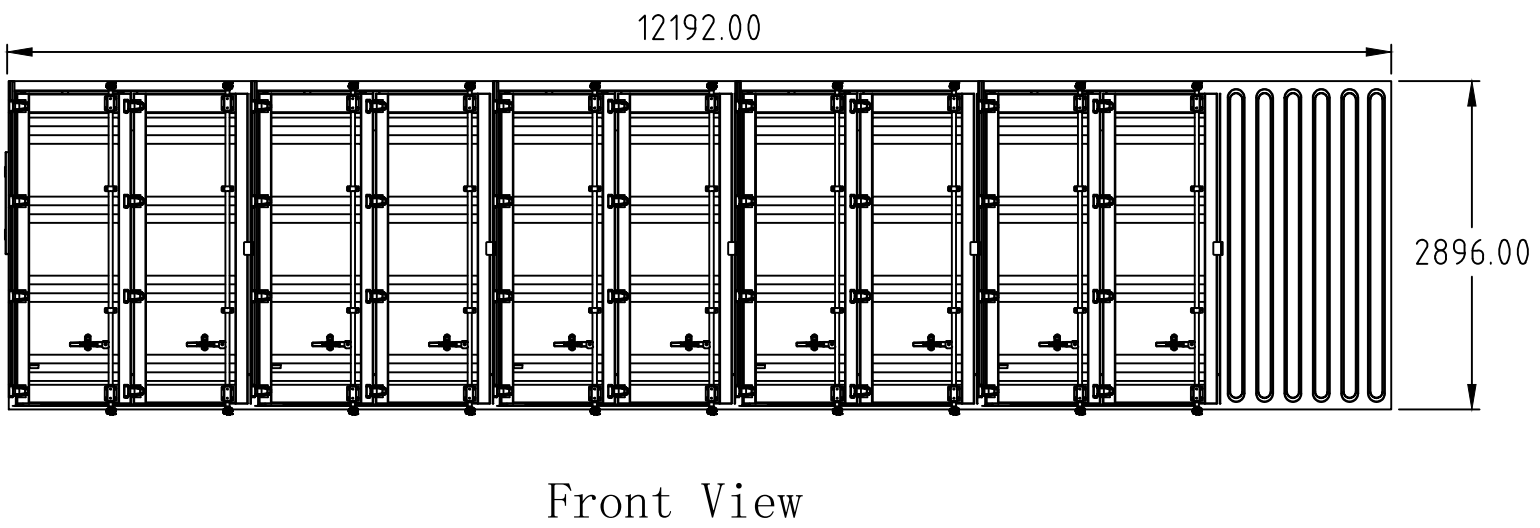
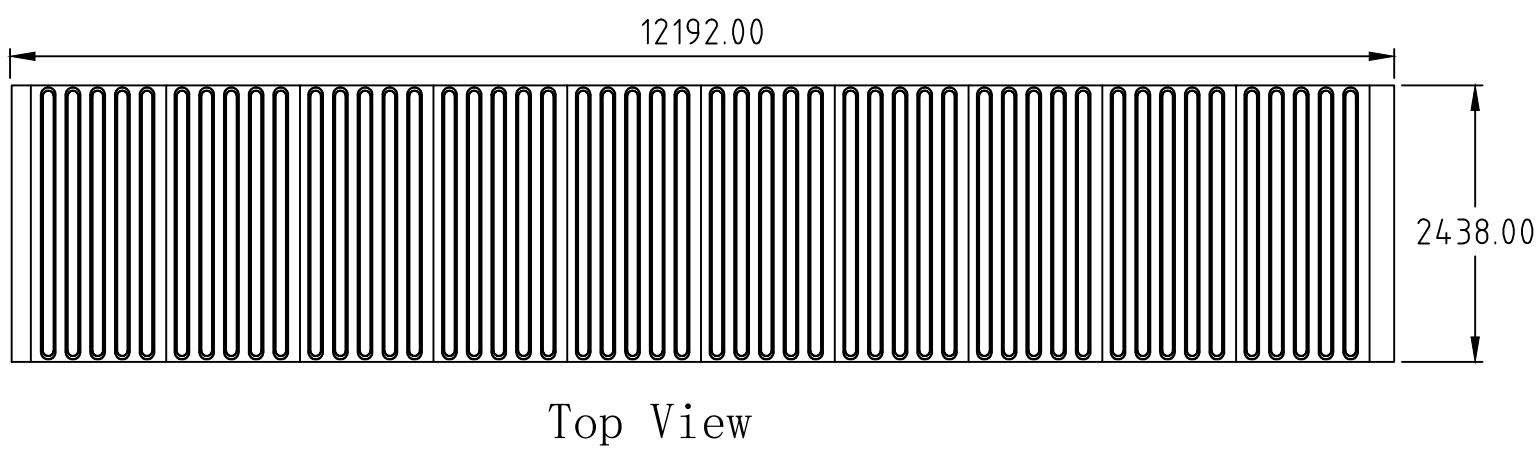
TYPICAL HIGH VOLTAGE SWITCHBOARD ENCLOSURE ELEVATION DETAILS



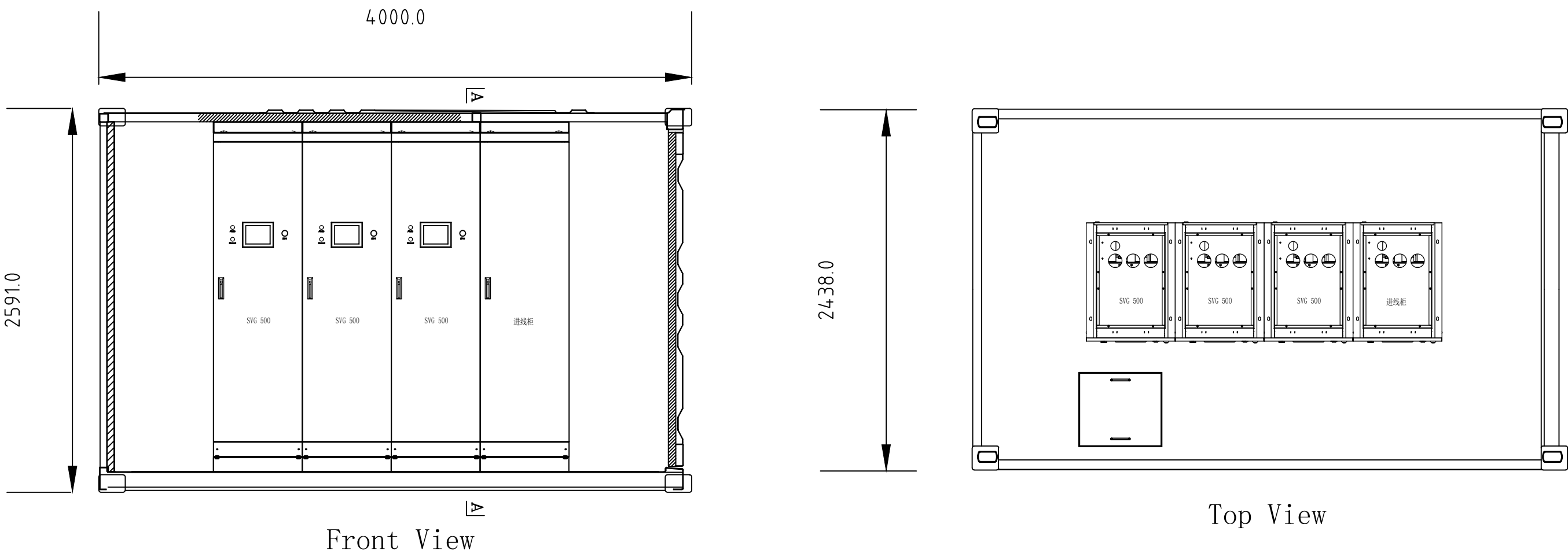
TYPICAL INVERTER TRANSFORMER ELEVATION DETAILS



TYPICAL INVERTER STATION ELEVATION DETAILS



TYPICAL SVG ENCLOSURE ELEVATION DETAILS



NOTE:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. ACTUAL DIMENSIONS OF THE EQUIPMENT MAY VARY BASED ON THE SPECIFICATIONS OF EQUIPMENT MANUFACTURERS.

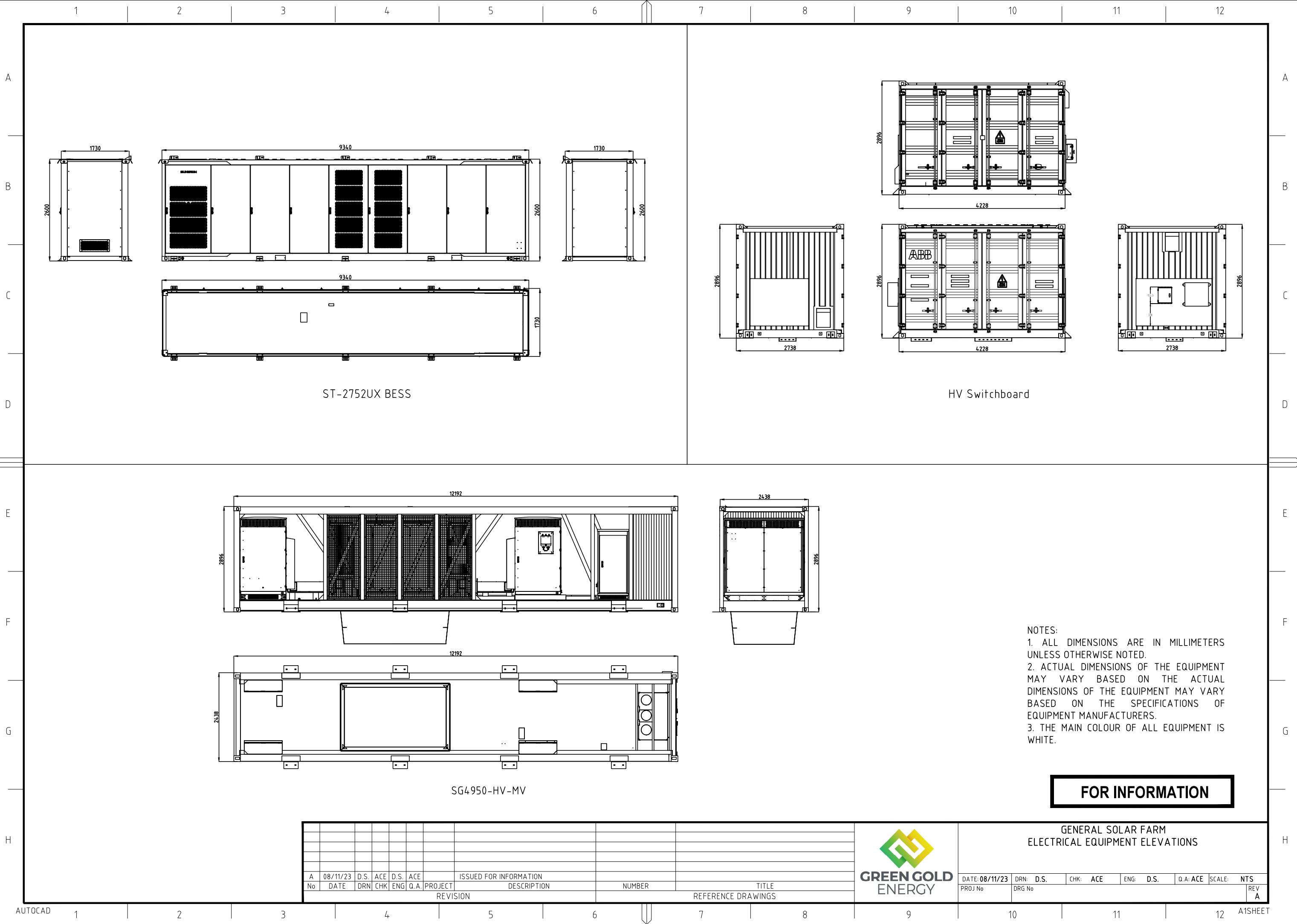
FOR INFORMATION

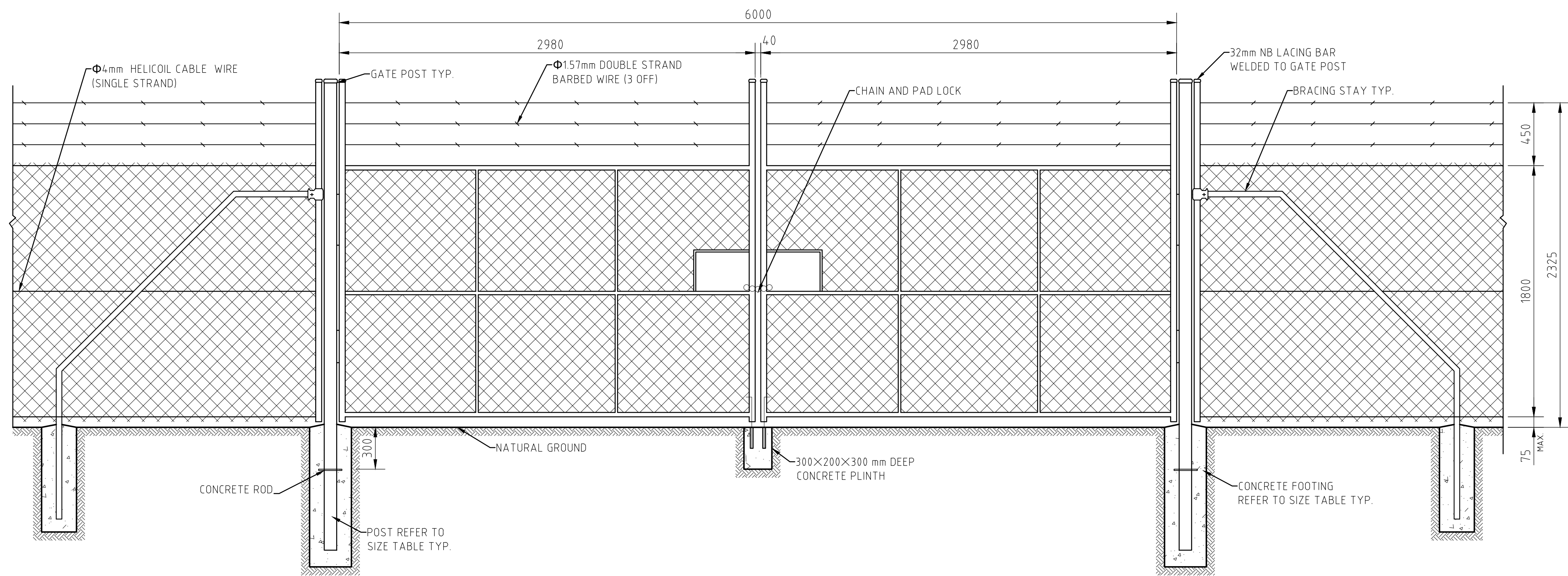
No	DATE	DRN	CHK	ENG	Q.A.	PROJECT	DESCRIPTION	NUMBER	TITLE
B	20/11/20	ACE	ACE	ACE	ACE		UPDATED INVERTER STATION		
A	13/03/20	ACE	ACE	ACE	ACE		PRELIMINARY ISSUE		
REVISION									
REFERENCE DRAWINGS									



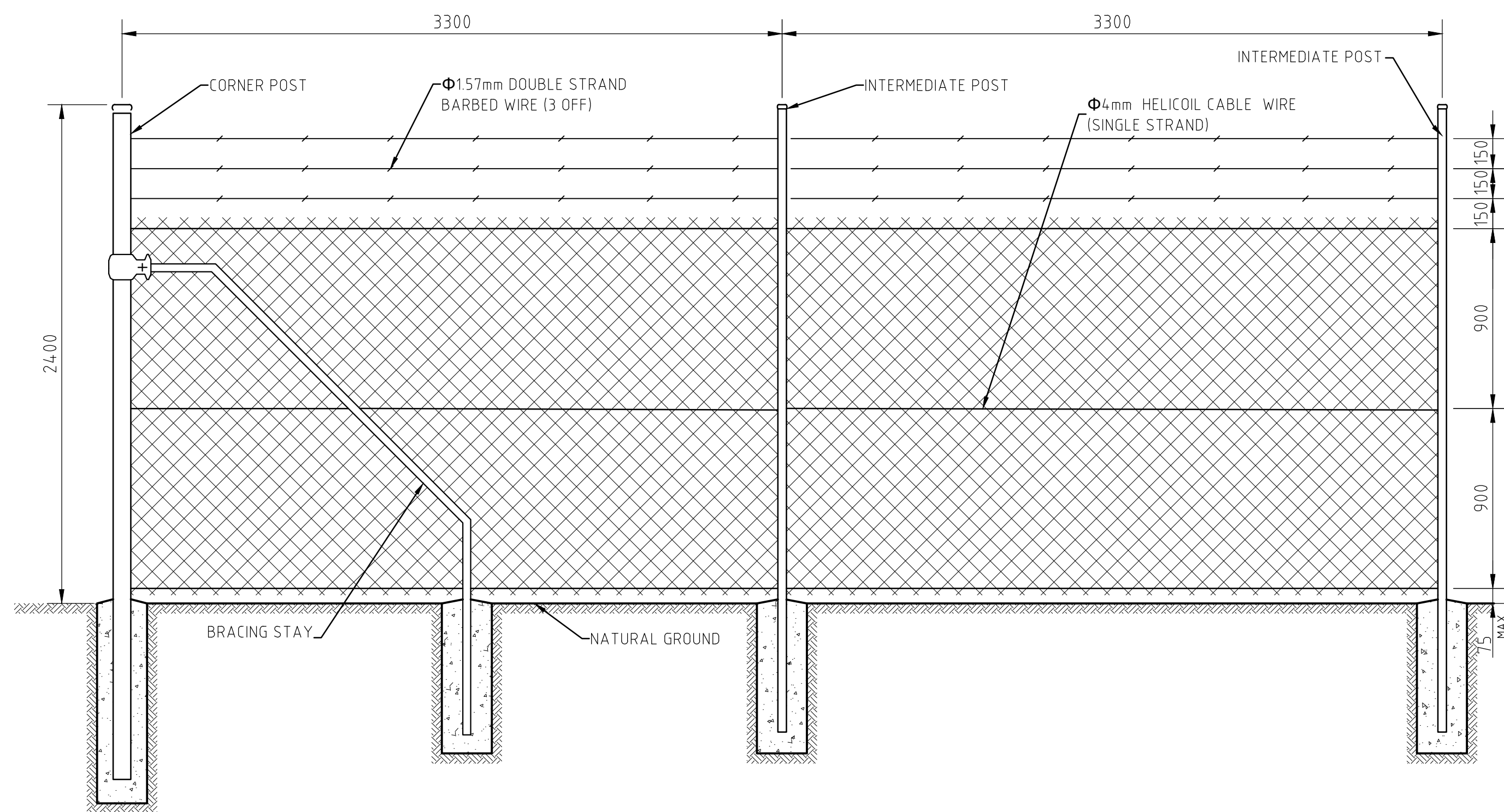
GENERAL SOLAR FARM
ELECTRICAL EQUIPMENT ELEVATIONS

DATE: 13/03/20	DRN: ACE	CHK: ACE	ENG: ACE	Q.A: ACE	SCALE: NTS
PROJ No	DRG No				REV B

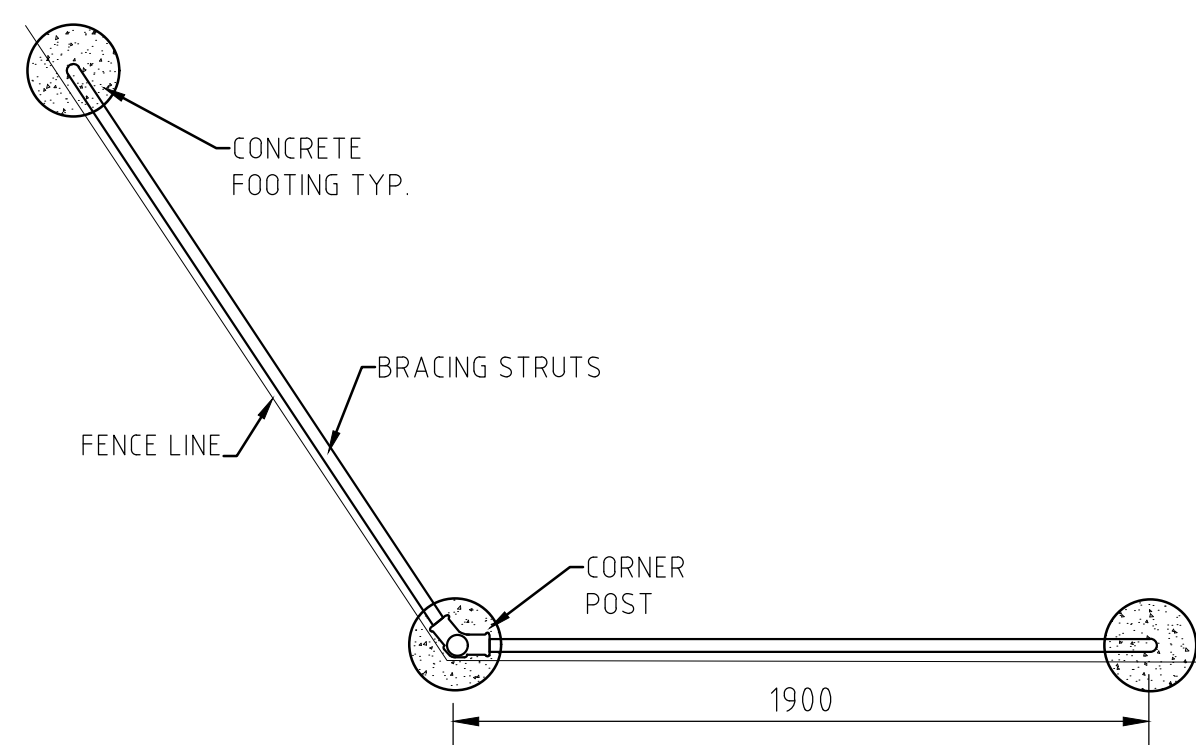




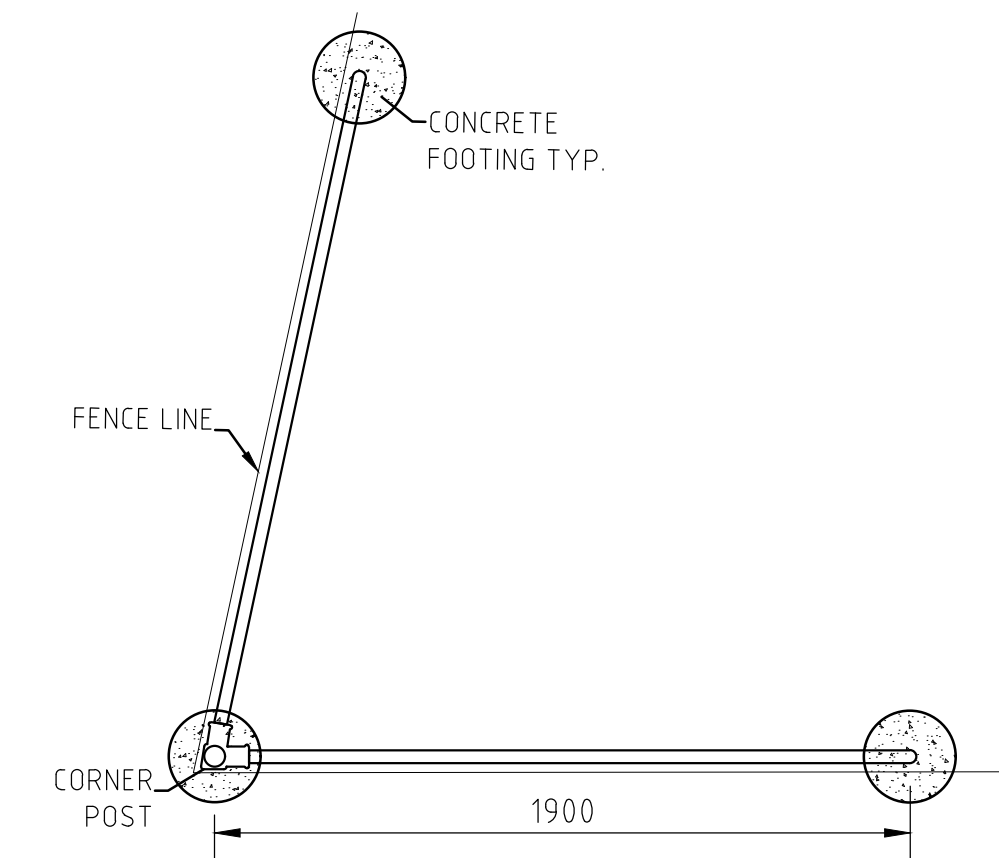
CHAIN LINK FABRIC FENCE AND OPENING DOUBLE GATE - 6000 GATE
SCALE 1:20



TYPICAL CHAIN MESH FENCE PANEL - 3300 DISTANCE
SCALE 1:20



CORNER POST FOOTING PLAN (>90)
SCALE 1:20



CORNER POST FOOTING PLAN (<90)
SCALE 1:20

NOTES

- CHAIN LINK FABRIC TO BE CLASS 2 TYPE 1-R-L/B-T RAILED LESS 3 BARBED TOP SECURITY FENCING AS PER AS1725.1.
- CHAIN LINK FABRIC TO BE ZINC/ALUM-ALLOY 2.50mm (LIGHT DUTY) WIRE WITH 50MM NOMINAL PITCH MESH (OR SIMILAR APPROVED)
- SUPPORT CABLE TO BE 4mm SINGLE STRAND WITH ZINC/ALUM-ALLOY COATING (OR SIMILAR APPROVED)
- LACING WIRE TO BE 2mm WITH ZINC/ALUM-ALLOY COATING (OR SIMILAR APPROVED)
- CONCRETE FOOTING SHALL BE IN ACCORDANCE WITH AS3600, AND NOT LESS THAN THE MINIMUM SIZE SPECIFIED IN THIS DRAWING.
- CONCRETE SHALL HAVE A CHARACTERISTIC COMPRESSIVE STRENGTH AT 28 DAYS OF 25MPA
- GATES SHALL BE DESIGNED FOR BOTH INWARDS AND OUTWARDS OPENING
- GATE DETAILS PROVIDED ON THIS DRAWING ARE TO BE USED AS ALTERNATIVE TO THE DRAWINGS PLC FENCING PROVIDE.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH AS1725.1 AND PLC FENCING DRAWING AND DESIGN
- ALL DIMENSIONS MENTIONED IN THIS DRAWING ARE IN mm, OR OTHERWISE SPECIFIED.

POST				FOOTING SIZE	
TYPE	DN	O.D	WALL	DIA	DEPTH
CORNER	DN 50	60.3	3.6	250	750
INTERMEDIATE	DN 40	48.3	2.9	250	600
BRACING STAY	DN 32	42.4	2.6	250	600

DOUBLE ACCESS GATES					
WIDTH OF GATE OPENING	GATE POST			FOOTING	
	DN	O.D	WALL	DIA	DEPTH
6000	DN 80	88.9	4	300	1000

FOR CONSTRUCTION

No	DATE	DES	DRN	APP	PROJECT	DESCRIPTION	NUMBER	TITLE
B	16/09/22	ACE	M.G.	A.W.	GG21	ISSUED FOR CONSTRUCTION		
A	17/05/22	ACE	M.G.	A.W.	GG21	ISSUED FOR REVIEW		
REVISION							REFERENCE DRAWINGS	



87 PEREGRINE WAY, ELWOMPLE SA 5260
4.95 MVA PV & BESS EXPORT SYSTEM
CHAIN WIRE MESH SECURITY FENCE & GATE

DATE: 18/05/22	DES: ACE	DRN: M.G.	APP: A.W.	SCALE: NTS
PROJ No: GG 21	DRG No: GG21-10-003-1			REV B