BASE LOAD POWER HUB (BLPH)
EARTHING & LIGHTNING LAYOUT
HV SWITCHROOM

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	15/09/25	SPS	FMA/AMA	CGI	AS-BUILT (ASB)
01	25/07/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/05/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
EARTHING & LIGHTNING LAYOUT-HV SWITCHROOM
FRONT PAGE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 123A90-DDL-EL-DL-20136

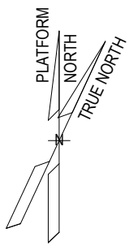
SHEET 001

REV. 02

File Name : 123A90-DDL-EL-DL-20136 Rev. 02

F.to UNI A3: 420mmx297mm

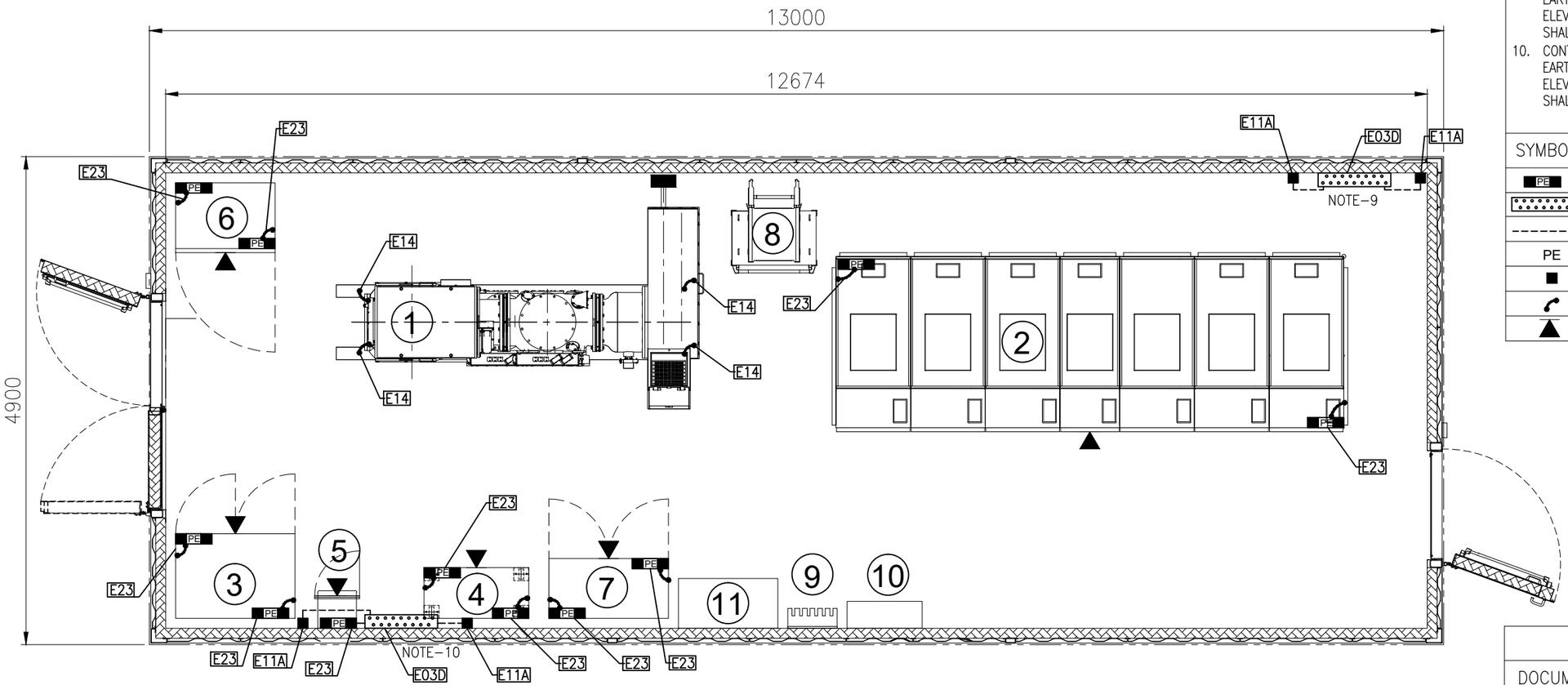
REV.	SHEET NUMBER	DESCRIPTION	REF. CODE
01	001	FRONT PAGE	
01	002	SUMMARY	
01	003	"B-100"HV SWITCHROOM	



EQUIPMENT LIST		
REF.	TAG No.	DESCRIPTION
1	HNA6–AFA70	66kV SWITCHGEAR (GIS)
2	SG–100D1	6.6kV SWITCHGEAR
3	UP–200F1	DC UPS PANEL
4	BA–200F1	DC UPS BATTERY RACK
5	CB–200F1	ISOLATOR FOR DC UPS
6	CP–100E1	66 kV SWITCHGEAR LOCAL CONTROL PANEL
7	B100–HSB–001	DISTRIBUTION & HVAC PANEL – HV SWITCH ROOM
8	–	SERVICE TROLLEY FOR 6.6kV SWITCHGEAR
9	–	TOOL BOX
10	–	ELECTRIC SAFETY KIT
11	–	TABLE

NOTES

1. THIS DOUCMENT IS VALID ONLY FOR EARTHING LAYOUT.
2. THE CABLE SIZE SHALL BE CONFIRMED.
3. THE EXACT POSITION OF EARTHING/MARSHALLING BUS BAR SHALL BE DEFINED BY VENDOR.
4. THE EARTHING BUS BAR INSTALLATION SHALL BE PREFERABLY IN VERTICAL MODE.
5. FOR TYPICAL DETAILS PLEASE REFER DOCUMENT "123A90–DDL–EL–DD–20090–ELECTRICAL TYPICAL INSTALLATION DETAILS– EARTHING SYSTEM".
6. DUE TO THE TOP CABLE ENTRIES THE EARTHING BUS BAR INSIDE THE CABINETS SHALL BE INSTALLED AT THE TOP OF THE CABINETS THEMSELVES.
7. FOR LIGHTNING PROTECTION SYSTEM SURGE PROTECTIVE DEVICES (SPD), REFER DOCUMENT 123A90–DDL–EL–RE–20154.
8. ALL NON WELDED OBJECTS SHALL BE EARTHED.
9. CONTAINER WILL HAVE A BTH (EARTHING BAR TINNED COPPER) WITH 2 EARTHING BOSS, INSTALLED IN THE NORTH–EAST CORNER AT AN ELEVATION OF 2.8M FROM THE CONTAINER FLOOR. EARTHING BOSS SHALL BE INSTALLED AT SAME ELEVATION 2.8M.
10. CONTAINER WILL HAVE A BTH (EARTHING BAR TINNED COPPER) WITH 2 EARTHING BOSS, INSTALLED IN THE SOUTH–WEST CORNER AT AN ELEVATION OF 2.5M FROM THE CONTAINER FLOOR. EARTHING BOSS SHALL BE INSTALLED AT SAME ELEVATION 2.5M.



EARTHING LAYOUT

B–100–HV(66kV/6.6kV) SWITCHROOM

PLAN

EL.+ 23.310 T.O.S.

SYMBOL	DESCRIPTION
PE	EARTHING BUS
	EARTHING BAR TINNED COPPER WITH no.18 HOLES
-------	35sq.mm Y/G INSULATED COPPER CONDUCTOR FOR PE
PE	PROTECTIVE EARTH
■	EARTHING BOSS AISI316L
	JUMPER CONNECTION
	FRONT OF EQUIPMENT

REFERENCE	
DOCUMENT NUMBER	DOCUMENT TITLE
123A90–DDL–EL–DD–20090	ELECTRICAL TYPICAL INSTALLATION DETAILS –EARTHING SYSTEM
123A90–DDL–EL–DL–20104	ELECTRICAL EQUIPMENT LAYOUT– HV SWITCHROOM
1724000049–AR–DD–00018	B–100 DETAILED DRAWINGS–E&I SHELTERS

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	15/09/25	SPS	FMA/AMA	CGI	AS–BUILT (ASB)
01	25/07/24	ASR	FMA/AMA	FPA/DLO	ACCEPTED FOR CONSTRUCTION (AFC)
00	21/05/24	SPS	FMA/AMA	FPA/DLO	ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
EARTHING & LIGHTNING LAYOUT–HV SWITCHROOM
"B–100"HV SWITCHROOM

CONTRACT NO./TITLE CW–I–WP4–2023–05/HOLLANDSE KUST NOORD WIND PARK | SCALE : 1:50

A3 | DRAWING NO. 123A90–DDL–EL–DL–20136 | SHEET 003 | REV. 02

F.to UNI A3: 420mmx297mm

File Name : 123A90–DDL–EL–DL–20136 Rev. 02