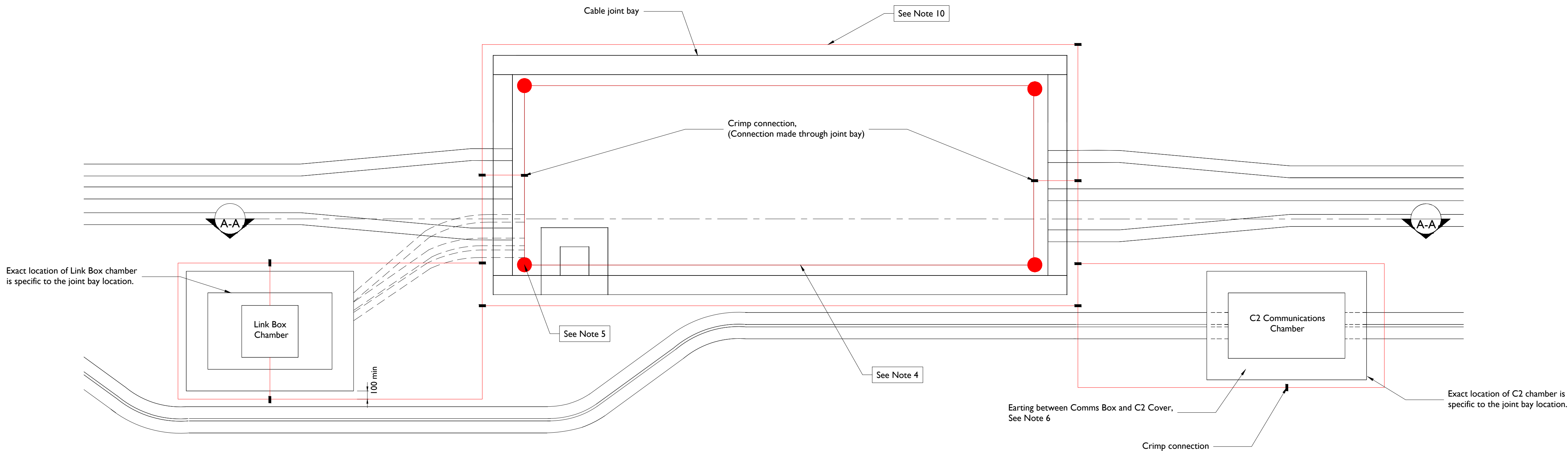


ISO A1 594mm x 841mm

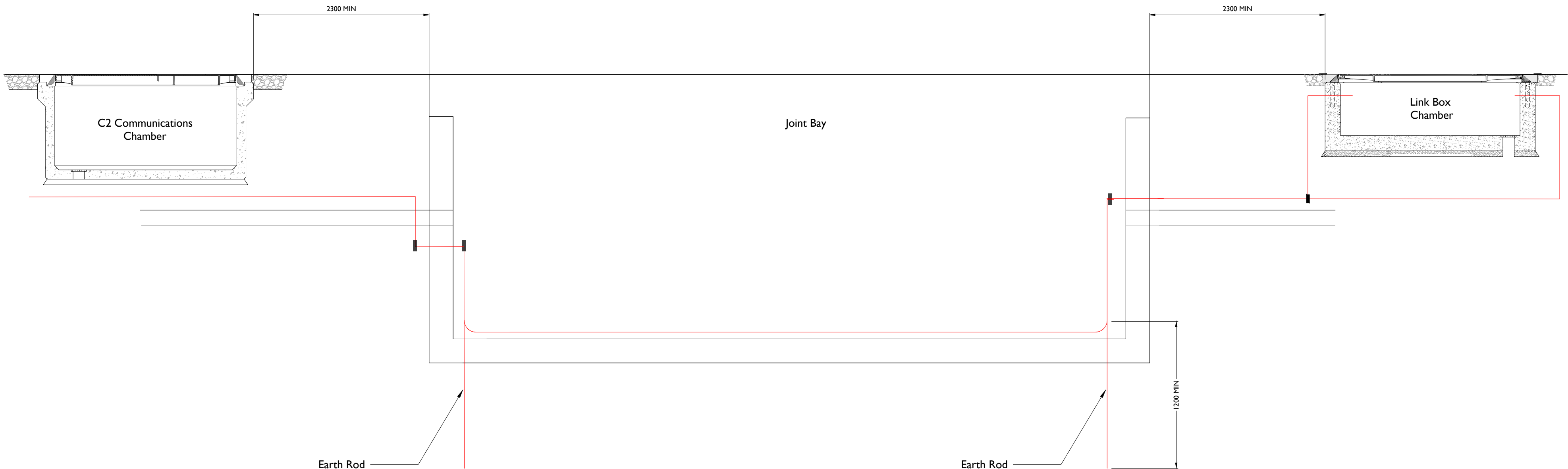
Project Management Initials: Designer: POS Checked: ER Approved: DB



Typical Plan of Joint Bay in Road

Scale 1:50

- General Notes:
1. This drawing is to be read in conjunction with esb drawings, in addition to all other relevant information.
 2. Do not scale from this drawing, use only printed dimensions.
 3. All dimensions are in millimeters unless defined otherwise.
 4. For earth grid within the joint bay, install a single loop of 95mm² Bare Cu Conductor running along the floor of the JB chamber. earth grid approx 2000mm below ground level.
 5. Earth rods shall be 1 mm thick copper clad steel 1200 mm long, 20mm Dia. in accordance with ENA TS 43-94. The earth connection to the earth rod shall be moisture protected using DENSO Tape over the completed connection.
 6. Earth rods shall be supplied complete with lugs, bolts, hardened tip, screw on steel driving cap and with the approved means of connecting the required earthing leads.
 7. Earth rods not less than 1.2 m long to be installed. One in each corner of the joint bay.
 8. The joint bay earth resistance, with this arrangement, should have a maximum value of 100. If this value cannot be achieved, additional measures will be required. if required, a counterpoise of adequate length installed within the HV cable trench and connected to the joint bay earth ring should be considered.
 9. Step voltage and transferred voltage to other metallic objects installed in the vicinity of the joint bay shall be calculated and checked as per latest EirGrid specification XDS-GFS-12-001. For required short circuit rating refer to EirGrid functional specification XDS-GFS-00-001.
 10. For earth grid surrounding joint bay and chamber area, install a single loop of 95mm² Bare Cu conductor, earth grid approx 500mm below ground surface level.
 11. An earth bar must be installed inside the link box chamber to facilitate connections from the link box and earth grid.



Section A-A

Scale 1:50



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PROJECT

Ballinrea Solar Farm
110 kV Grid Connection

CLIENT



CONSULTANTS

NOTES: -

LEGEND: -

- 95 mm² Cu BARE CONDUCTOR
- EARTH ROD
- C CRIMP

Progress Print
Not Issued for Construction
12.12.25

ISSUE/REVISION

P1	12.12.25	Issued For Planning Amendment
I/R	DATE	DESCRIPTION

PROJECT NUMBER

300-101179

SHEET TITLE

Joint Bay-
Typical Earthing Arrangement
No ECC Duct

SHEET NUMBER

300101179-DR-812