

Heckington Fen Solar Park

EN010123

Figure 4.16 – 400 kV Jointing Bay General Arrangement

Applicant: Ecotricity (Heck Fen Solar) Limited

Document Reference: 6.2.4

Pursuant to: APFP Regulation 5(2)(a)

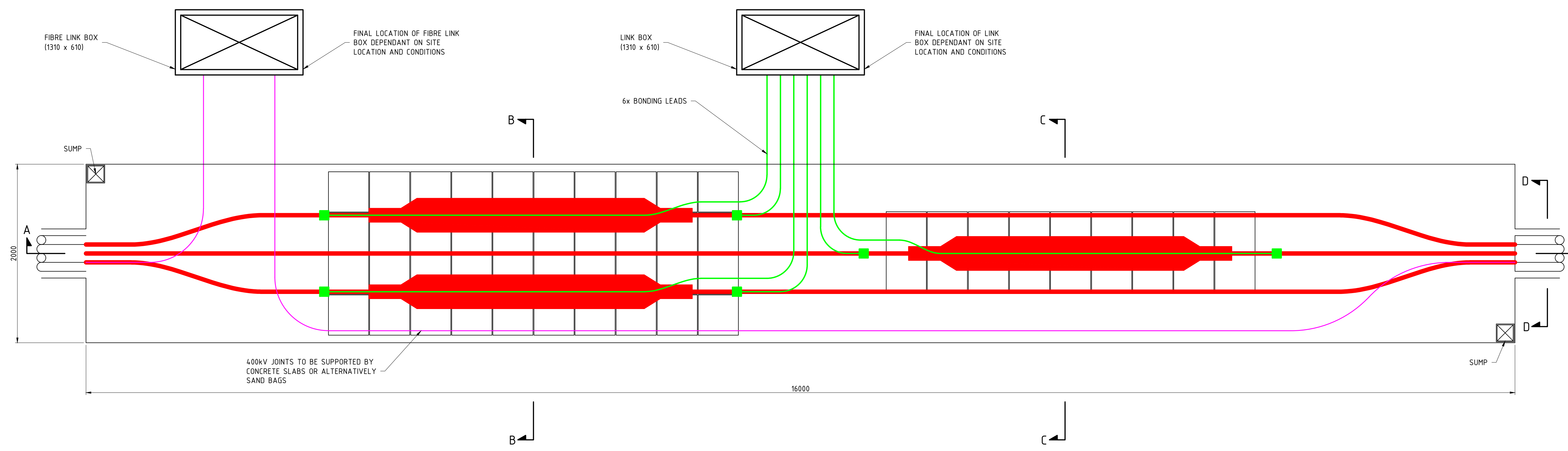
Deadline 2: 7th November 2023

Document Revision: 2

November 2023

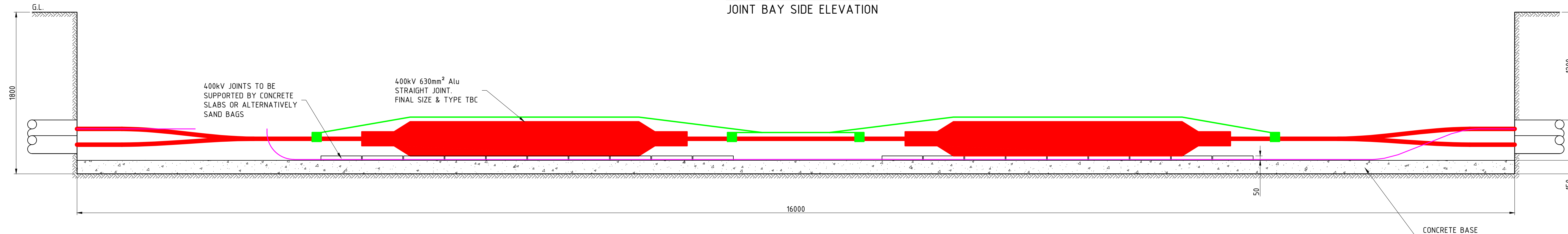


PLAN VIEW
400kV JOINT BAY & LINK BOX CONFIGURATION



400kV JOINTS TO BE SUPPORTED BY CONCRETE SLABS OR ALTERNATIVELY SAND BAGS

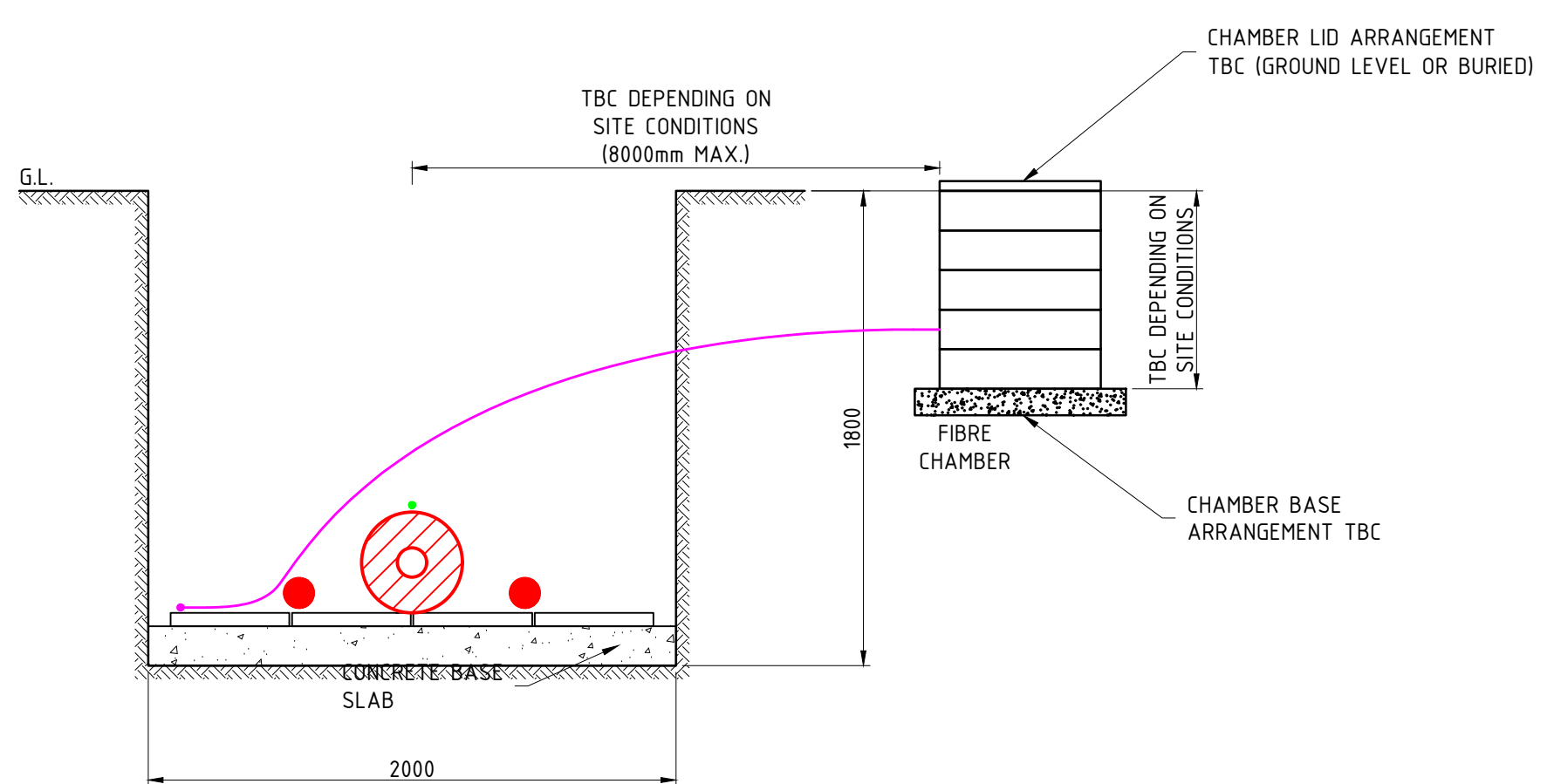
SECTION A-A
JOINT BAY SIDE ELEVATION



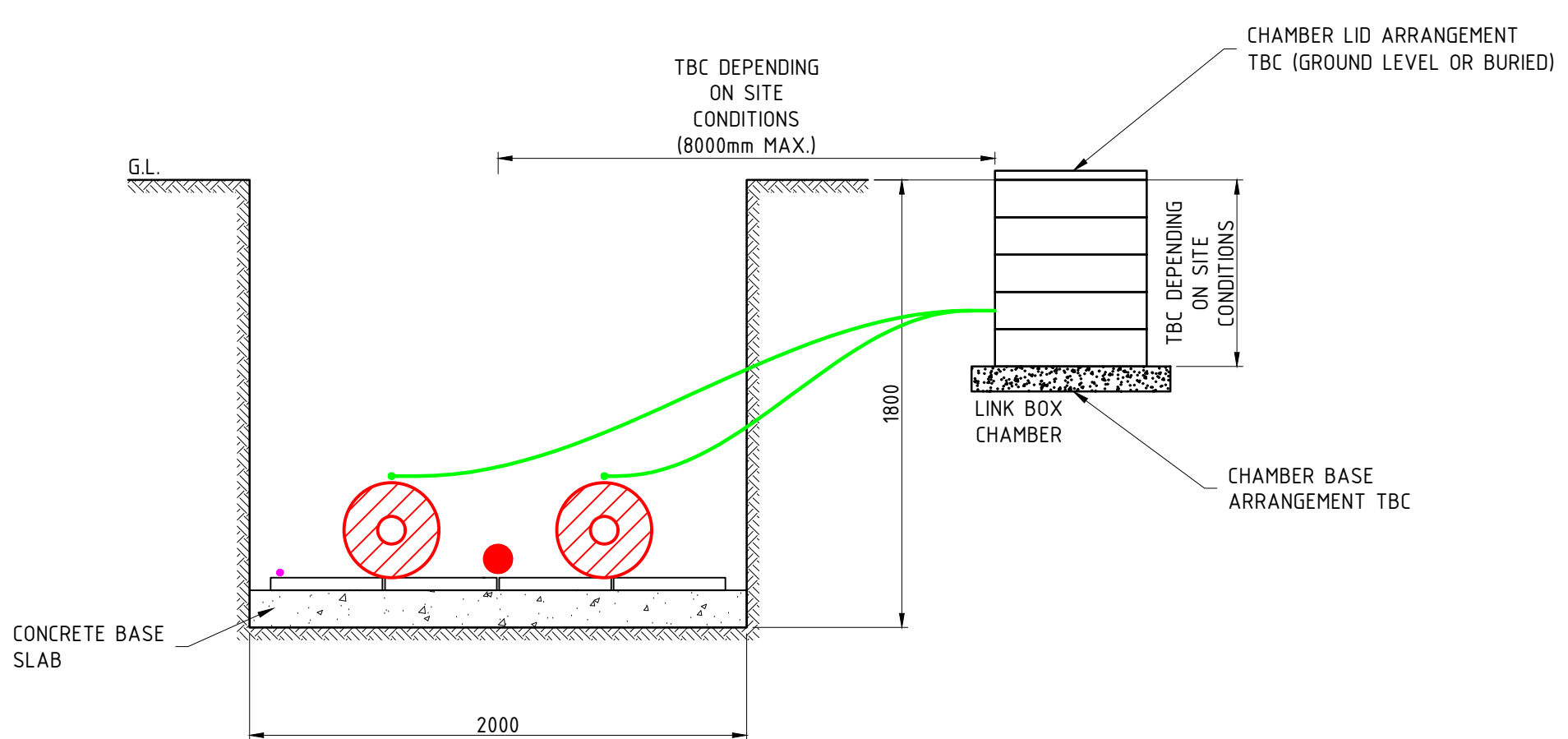
400kV JOINTS TO BE SUPPORTED BY CONCRETE SLABS OR ALTERNATIVELY SAND BAGS

400kV 630mm² Alu STRAIGHT JOINT. FINAL SIZE & TYPE TBC

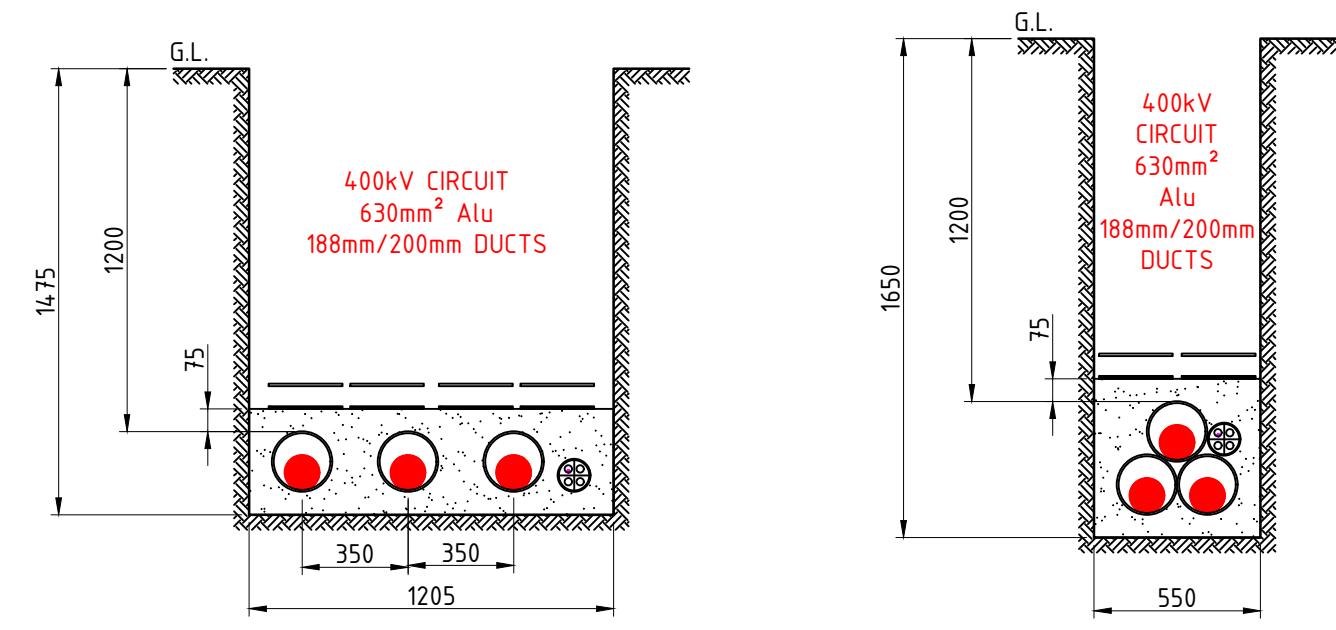
CONCRETE BASE SLAB



SECTION B-B
JOINT BAY SECTIONAL VIEW



SECTION C-C
JOINT BAY SECTIONAL VIEW



OPTION 1

OPTION 2

SECTION D-D
JOINT BAY DUCT ENTRY SECTIONAL VIEW

- NOTES:**
- THIS DRAWING IS FOR DISCUSSION PURPOSES ONLY.
 - JOINT BAYS SIZED AS PER NATIONAL & DNO STANDARDS BASED ON NUMBER OF CIRCUITS REQUIRING JOINTING.
 - FINAL JOINT BAY SIZES WILL BE DEPENDENT ON CIRCUIT CONFIGURATIONS AND SITE CONDITIONS.
 - CURRENT CONFIGURATIONS DO NOT INCLUDE FOR ANY TEMPORARY WORKS DESIGNS (TWD). TWD TO BE UNDERTAKEN AND APPROVED PRIOR TO INSTALLATION WORKS.
 - JOINT TYPES TBC AND ARE SHOWN INDICATIVELY AT PRESENT.
 - CABLE/DUCT CONFIGURATIONS BASED ON CURRENT DESIGN DRAWING 429401-6002/6003.
 - DUCT SIZE: 200mm (OD) / 188mm (ID) EMETELLE TYPE.
 - FIBRE REQUIREMENTS TBC. INDICATIVE CHAMBERS SHOWN WITHIN PROXIMITY TO JOINT BAY.
 - LINK BOX TO BE LOCATED LESS THAN 8m FROM JOINTS.
 - LINK BOX AND BONDING LEAD TYPES TBC.
 - LINK BOX INTEGRATION (CHAMBER/DIRECT BURIED) TBC.
 - JOINT BLINDING & EXCAVATION REINSTATEMENT AS PER DETAILED TRENCH SECTIONS ON DRAWING 429401-6002/6003.

- REFERENCE DRAWINGS & DOCUMENTS:**
- 431678 - 6001 400kV CABLE ROUTE PLAN
 - 431678 - 6002 400kV SINGLE CIRCUIT TRENCH CONFIGURATIONS

SHE BOX
CONTAINING SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARDS AND RISKS NORMALLY ASSOCIATED WITH CONSTRUCTING, MAINTAINING AND DEMOLISHING THE STRUCTURES ON THIS DRAWING, THE FOLLOWING SIGNIFICANT RISK INFORMATION SHOULD BE TAKEN INTO ACCOUNT WHEN PLANNING AND CARRYING OUT CONSTRUCTION, MAINTENANCE AND DEMOLITION WORK.

CONSTRUCTION, OPERATION, MAINTENANCE & DEMOLITION ⚠️

- WORKING IN & AROUND EXCAVATION: APPROPRIATE TEMPORARY WORKS DESIGN TO BE SELECTED & IMPLEMENTED BY SUITABLY AUTHORISED PERSONS.
- VEHICLE MOVEMENT: LIMIT THE MOVEMENT OF PLANT CLOSE TO EXCAVATION. ALL MOVEMENTS TO BE CONTROLLED BY BANKSMAN.
- WORKING AT HEIGHT: BARRIER INSTALLED AROUND EXCAVATION. PROPER ACCESS TO BE USED LADDER ETC.
- WORKING IN EXCAVATION: ALL STAFF TO BE ADEQUATELY TRAINED. NO LONE WORKING IN EXCAVATION. FULL PPE TO BE WORN.
- MANUAL HANDLING: ALL STAFF TO BE ADEQUATELY TRAINED. CORRECT MANUAL HANDLING TECHNIQUES TO BE USED.
- BURIED SERVICES: SERVICES INFORMATION TO BE OBTAINED AND REVIEWED. EXISTING SERVICES TO BE LOCATED BY CAT SCANNING AND TRIAL HOLES IF REQUIRED PRIOR TO EXCAVATION WORKS BEGINNING.
- GROUNDWATER: WATER TO BE PUMPED FROM EXCAVATION TO PREVENT FLOODING.
- WORKING IN PROXIMITY TO ROAD TRAFFIC: APPROPRIATE BARRIERS TO BE IN PLACE. TRAFFIC MANAGEMENT TO BE CONSIDERED.

REV	DATE	DESCRIPTION	DRN	CHK	APP
P4	04.10.23	FLAT-LAY CROSSING SECTION OPTION ADDED	A.R.	A.D.	V.S.
P3	24.01.23	LINKBOX DETAILS ADDED	J.S.B	A.D.	V.S.
P2	02.11.22	NOTES AMENDED & BONDING ARRANGEMENT FINALISED	J.S.B	A.D.	V.S.
P1	21.02.22	FIRST ISSUE	A.R.	A.D.	V.S.

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TITLE			
FIGURE 4.16 400kV JOINT BAY GENERAL ARRANGEMENT			
PROJECT NAME HECKINGTON FEN SOLAR PARK			
CUSTOMER ECOTRICITY			
CUSTOMER DRAWING NUMBER 431678-6006		STATUS FOR DISCUSSION	
DRAWING NUMBER	SCALE	SIZE	REVISION
431678-6006	1:25	A1	P4