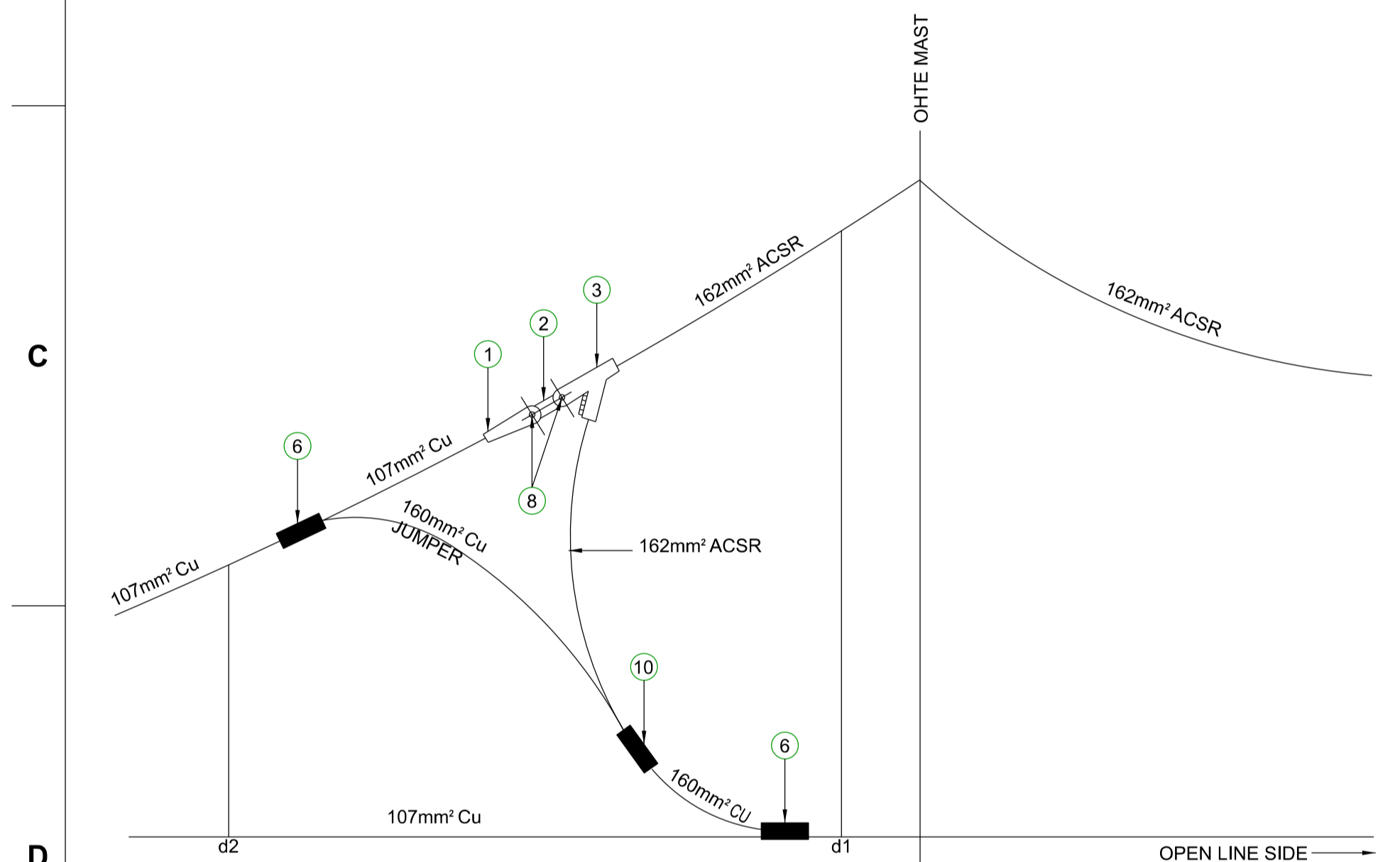
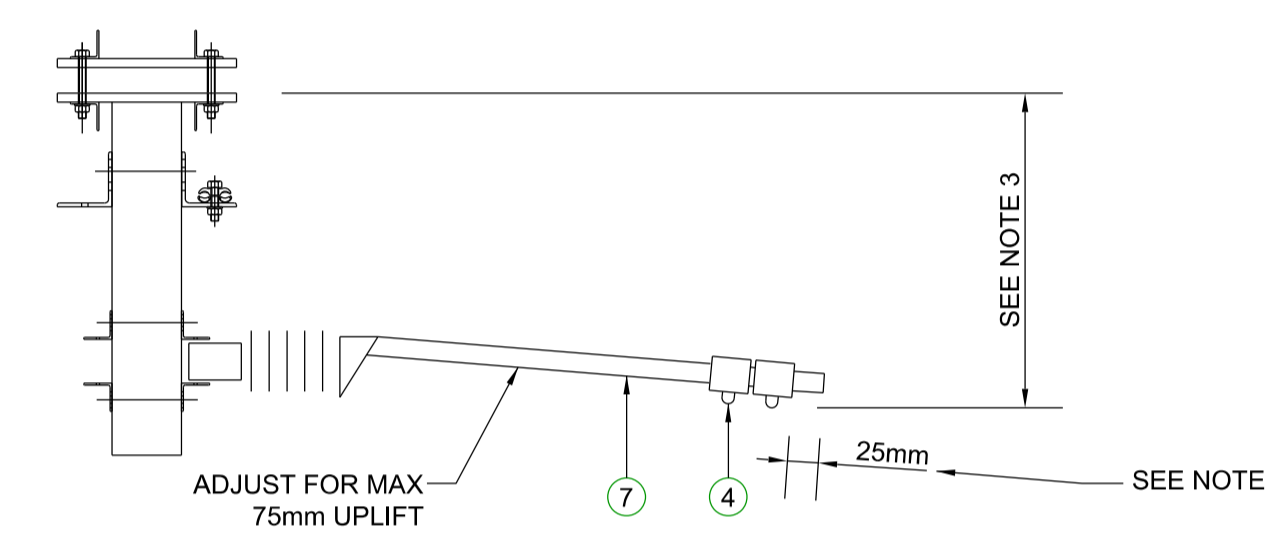


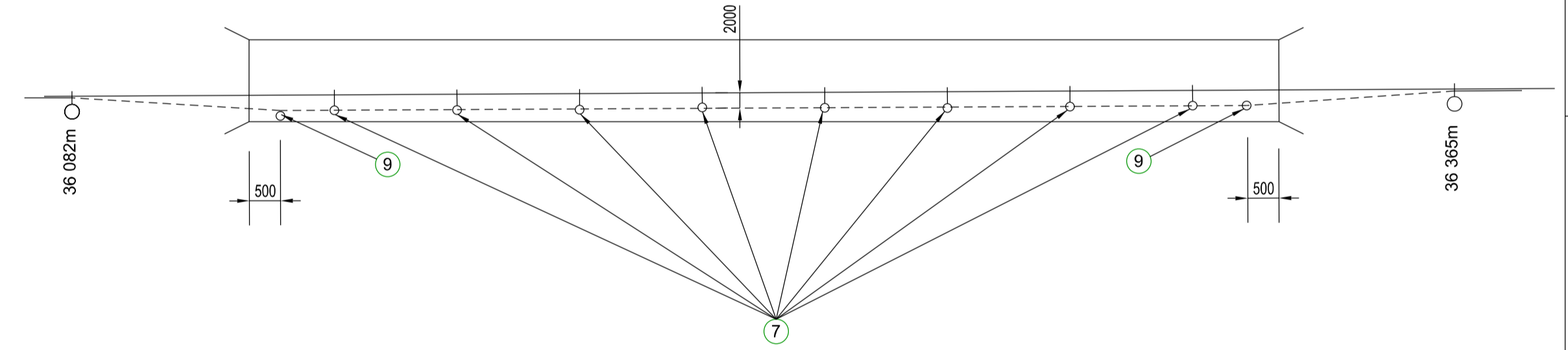
BRIDGE LAYOUT



DETAIL A  
SCALE 1:10



DETAIL B  
TYPICAL SWING ARM SUSPENSION ARRANGEMENT (CEE-TN-191)  
SEE NOTE 2



EARTH WIRE ARRANGEMENT ON THE BRIDGE  
PLAN VIEW

DROPPER TABLE						
SPAN LENGTHS (m)	No. OF DROPPERS	DROPPER SPACINGS (m)	DROPPER LENGTHS "d" (mm)			
			d1	d2	d3	d4
42,4	4	3,5-8-8,9-8-14	1000	610	290	105

ITEM	DESCRIPTION	QTY	DRAWING NUMBER
1	ENDING CONE, CONTACT WIRE	2	CEE-TNB-36
2	STRAP, LINK, 80mm	4	CEE-TNE-33
3	STRAIN CLAMP, GALV. STEEL, 162mm² ACSR	2	
4	DOUBLE CONTACT WIRE SPILCE ASSEMBLY	1	BBB 0754
5	107mm² Cu DOUBLE CONTACT WIRE SPILCE ASSEMBLY	2	BBB 0861
6	CLAMP, ELECTRICAL	4	CEE-TNB-81
7	SUSPENSION ARRANGEMENT (SEE NOTE 2)	8	CEE-TN-191
8	CLEVIS PIN, Ø16	4	CEE-TX-66
9	EARTH WIRE SUPPORT FITTING	2	CEE-TN-257
10	BI-METALLIC CONDUCTOR SPLICE 162mm² ACSR - 160mm² Cu	2	CEE-TNB-94

- NOTES:
- THIS DRAWING IS ADOPTED FROM TRANSNET FREIGHT RAIL DRAWING CEE BBB0883.
  - MOUNT SWING ARM SUSPENSION ARRANGEMENT AS PER DRAWING NO. CEE-TN-191 WITH CLAMPS AS PER DRAWING NO. BBB0754 (SEE DETAIL B).
  - ADJUST MOUNTING HEIGHT OF ASSEMBLY TO OBTAIN MINIMUM CONTACT WIRE HEIGHT 4,5m.
  - CUT TUBE TO THE DIMENSION AFTER INSTALLATION.
  - SEE DRG No. H339473-3-214-E-LA-0001-12 FOR APPLICATION

- NOTES
- DO NOT SCALE DRAWING - ONLY DIMENSIONS SHOWN TO BE USED.
  - THE CONTRACTOR SHALL VERIFY ALL CONDITIONS, DIMENSIONS AND LEVELS ON THE SITE AND NOTIFY THE NEG SUPERVISOR OF ANY VARIATIONS BEFORE CONSTRUCTION.

DRAWING NO.	REFERENCE
1	REFERENCE DRAWINGS

NO.	DESCRIPTION	BY	CHKD	APPD	DATE
0B	CLIENT REVIEW				
0A	INTERNAL REVIEW	AJO	CG	JPIP	12/03/30

CONTRACTOR / CONSULTANT				TRANSNET CAPITAL PROJECTS			
TITLE	NAME	SIGN	DATE	TITLE	NAME	SIGN	DATE
DRAWN	AJO		12 03 29				YY MM DD
CHECKED							
DISC.LEAD							
ENG.MANAGER							
PROJECT MGR							

HATCH DRAWING No: H339473 - 3214 - 70 - 042 - 0001 - 002

Transnet Capital Projects

TRANSNET

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**NGQURA 16MTPA MANGANESE**

**RAIL INFRASTRUCTURE**  
**BEACONSFIELD - DE AAR MODDERRIVIER BRIDGE**  
**CATENARY ARRANGEMENT**  
**ELECTRICAL GENERAL ARRANGEMENT**

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
H 3 3 9 4 7 3	- 3	2 1 4	- E	- G A	0 0 0 1	0 2	0 B	HA

SCALE: 1:250