



CATENARY SYSTEM COMPLIANCE

Eilbeck Cranes
32 Diesel Drive,
Paget Mackay, Q 4740
Ph: (07) 4998 5599

Dear Vittorio,

We have reviewed the Catenary System for Eilbeck Cranes Australia as detailed in the Appendices attached for compliance with the intent of AS/NZS 60079.14.

From the documentation provided the Catenary complies with the relevant sections of the above Standard for installation within a Hazardous Area. We do however note that an earth bonding strap is required between each of the Catenary rollers connected back to a suitable point to ensure adequate equipotential bonding / potential equalisation is achieved as the ball bearing wheels are not considered as suitable.

Following the subsequent installation of each system, we recommend that the equipotential bonding between each of the Catenary rollers and the associated structural steel to ensure adequate bonding. In accordance with AS/NZS 3000 Clause 5.4.6.3, adequate bonding shall be taken as less than 0.5 Ω from any point on the Catenary system to the relevant distribution earth bar.

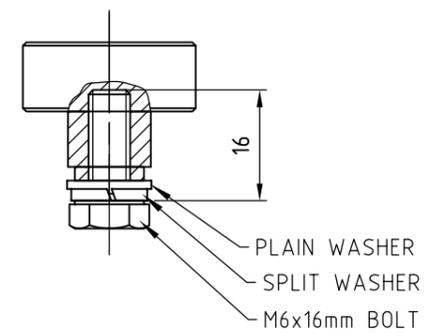
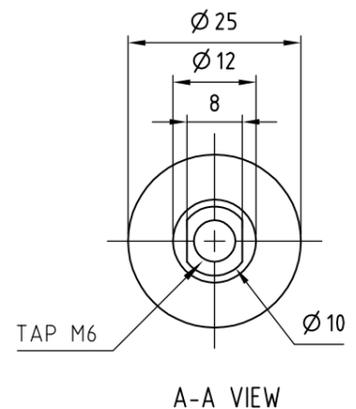
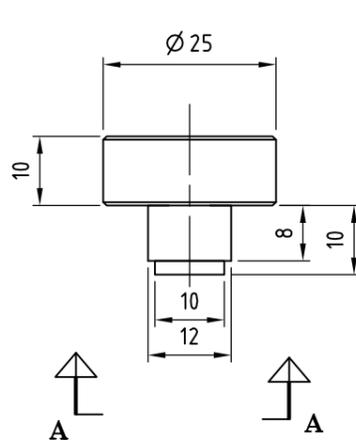
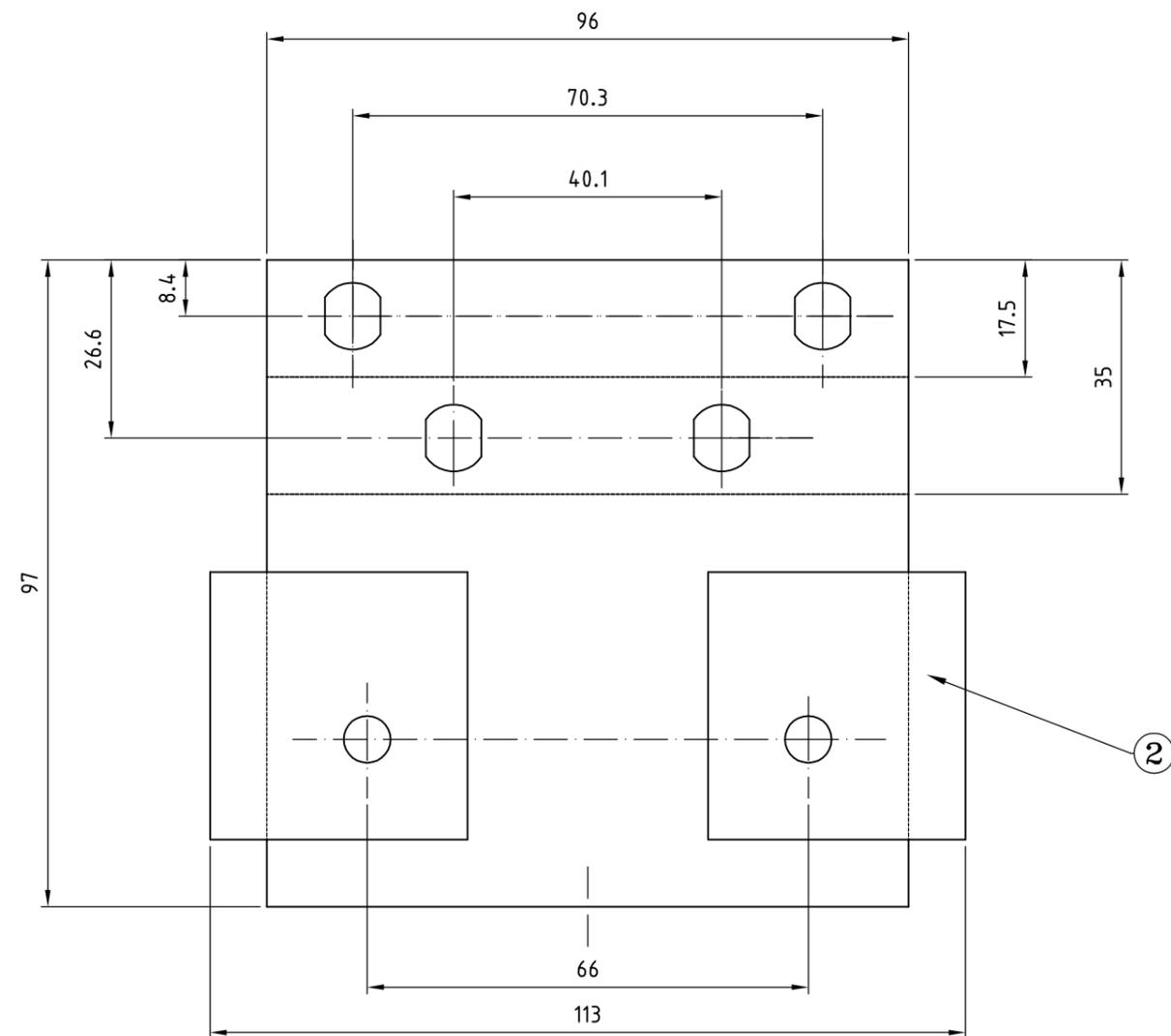
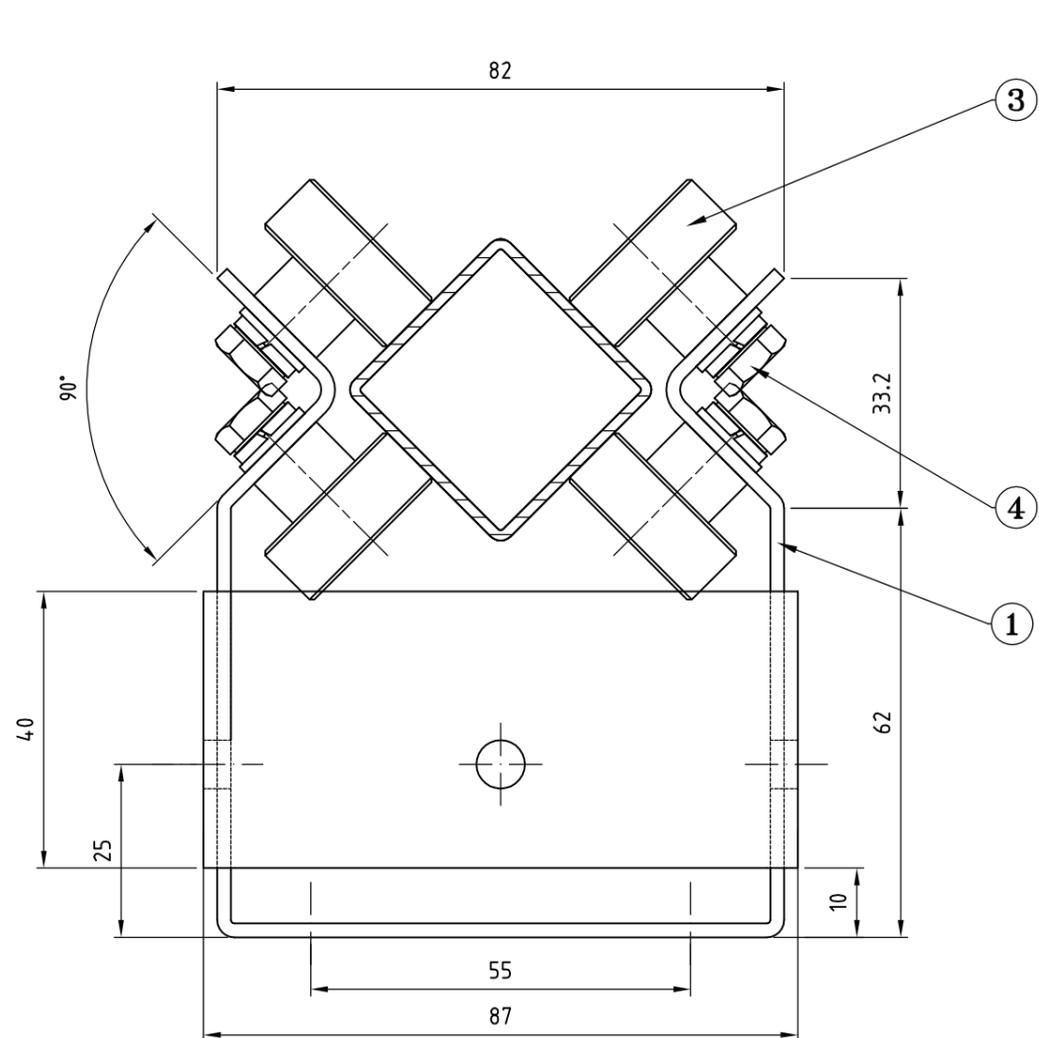
It is recommended that the associated wiring system is reviewed for compliance with the relevant sections of AS/NZS 60079.14 and the cabling spans are confirmed as appropriate with the relevant manufacturer.

The above electrical installation, and supporting documentation provided, has been assessed via a desktop review for compliance with the relevant sections of AS/NZS 60079.14, specifically Clause 6.3.

Author:	<u>Jamie McCullough</u>	Checked:	<u>Jeff Strath</u>
Auditor No:	<u>02/0152</u>	Auditor No:	<u>02/004</u>
Signature:	<u></u>	Signature:	<u></u>



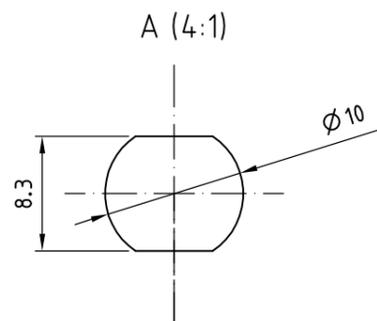
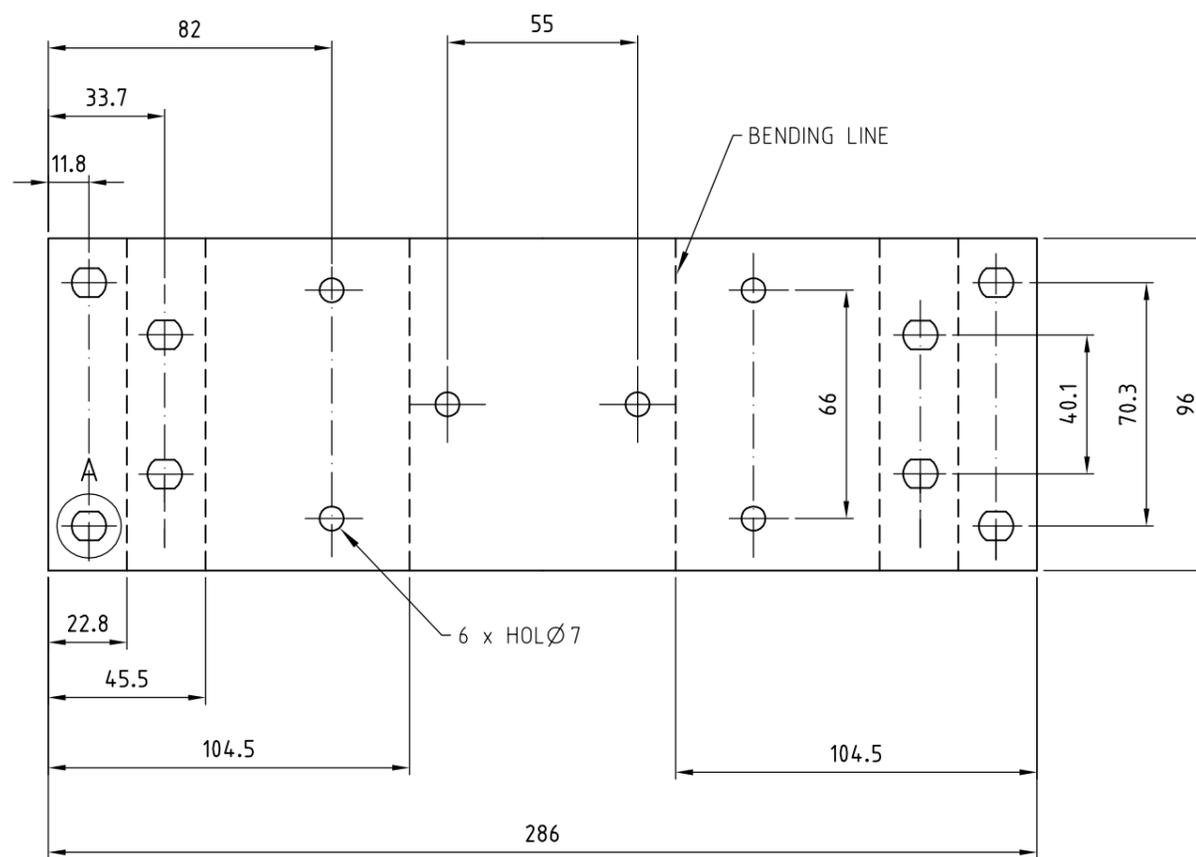
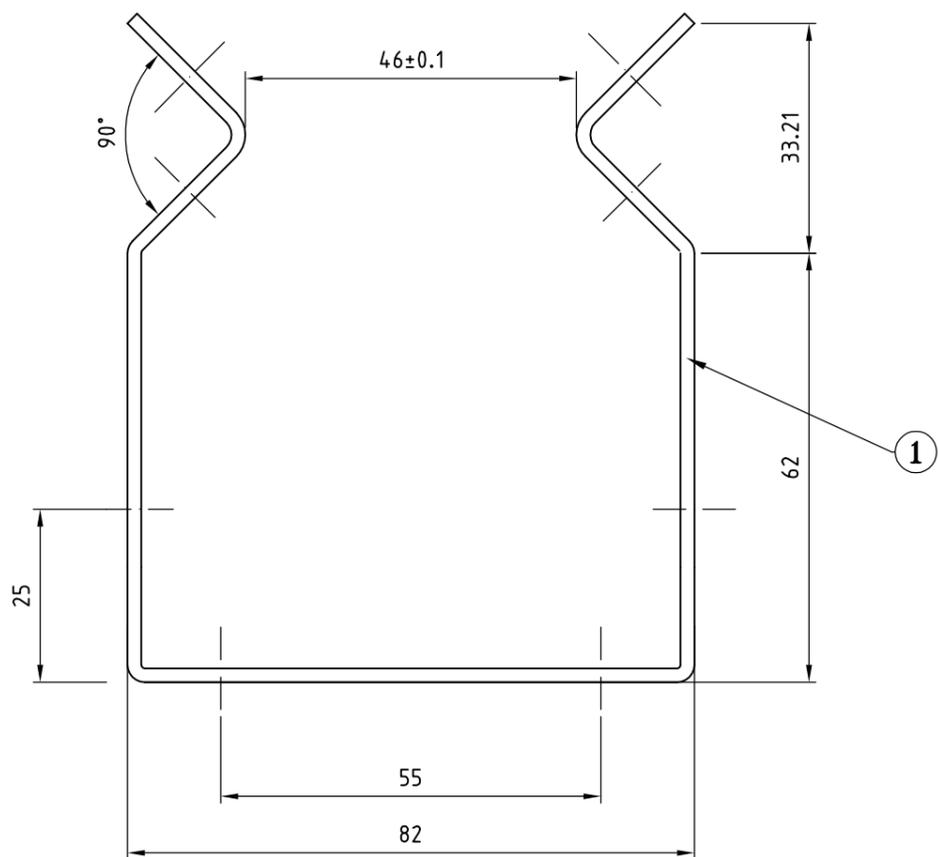
APPENDIX A REFERENCE DRAWINGS



BEARING DETAILS

ITEM	QTY	DESCRIPTION	MATERIAL	REF. / STANDARD
4	4	M6x16 BOLT, S/W, F/W	S/S 316	-
3	4	TROLLEY BEARINGS	S/S 316	-
2	2	TROLLEY STIFFENER PLATE	S/S 316	DR. ECE-SED-E203
1	1	TROLLEY MAIN BODY PLATE	S/S 316	DR. ECE-SED-E202

						DATE	22.7.10	CLIENT	EILBECK CRANES	SCALE:	1:1	A3
						DRAWN	MY	PROJECT	STANDARD ENGINEERING DESIGNS	DRAWING NUMBER		REV.
						CHECKED	TH	DRG. TITLE	STANDARD ELECTRICAL DRAWINGS SQUARE BAR CATENARY SYSTEM CABLE TROLLEY ASSEMBLY	ECE-SED-E 201		01
						APPROVED	TLE					
REV.	DATE	DESCRIPTION	DRAWN	CHECKED								
1	14.9.10	REVISED FOR APPROVAL	MY	TH								
0	22.7.10	ISSUED FOR CONSTRUCTION	MY	TH								

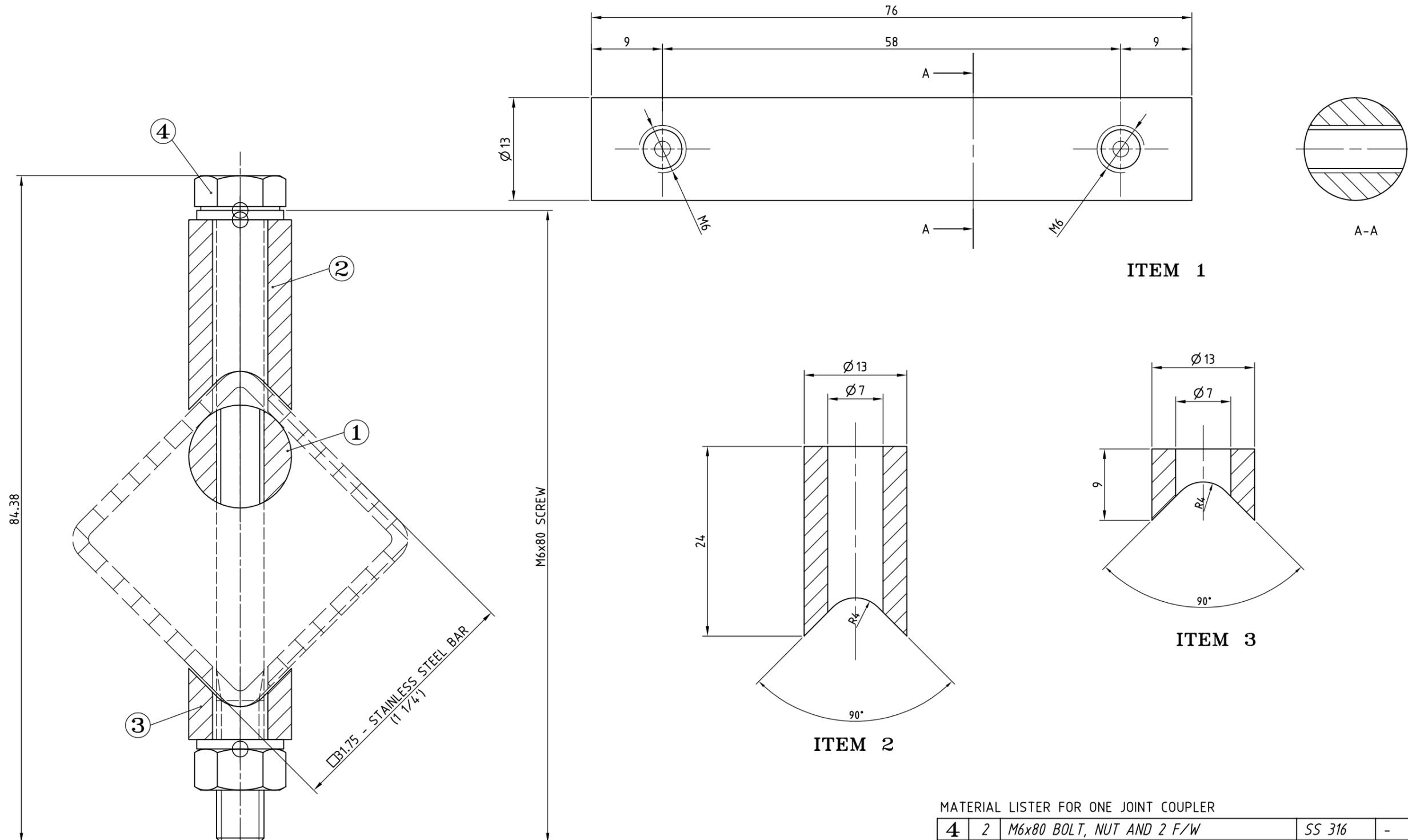


1	1	96 x 2.4 x 286 LG PL.	SS 316	-
ITEM	QTY	DESCRIPTION	MATERIAL	REF. / STANDARD

					Eilbeck CRANES	DATE	22.7.10	CLIENT	EILBECK CRANES	SCALE:	1:1	A3
						DRAWN	MY	PROJECT	STANDARD ENGINEERING DESIGNS	DRAWING NUMBER		REV.
1	3.9.10	REVISED FOR CONSTRUCTION	MY	TH		CHECKED	TH	DRG. TITLE	STANDARD ELECTRICAL DRAWINGS SQUARE BAR CATENARY SYSTEM MAIN BODY PLATE BEND DETAILS	ECE-SED-E 202	01	
0	22.7.10	ISSUED FOR CONSTRUCTION	MY	TH		APPROVED	TLE					
REV.	DATE	DESCRIPTION	DRAWN	CHECKED								



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COUPLER ASSEMBLY

ITEM 1

ITEM 2

ITEM 3

NOTES:
 - ALL ITEMS TO BE MADE OF STAINLESS STEEL SS316
 - DE-BURR ALL CORNERS AND SHARP EDGES

MATERIAL LISTER FOR ONE JOINT COUPLER

ITEM	QTY	DESCRIPTION	MATERIAL	REF. / STANDARD
4	2	M6x80 BOLT, NUT AND 2 F/W	SS 316	-
3	2	Ø13 x 10 LG BAR	SS 316	-
2	2	Ø13 x 25 LG BAR	SS 316	-
1	1	Ø13 x 76 LG BAR	SS 316	-

REV.	DATE	DESCRIPTION	DRAWN	CHECKED
1	14.9.10	REVISED FOR CONSTRUCTION	MY	TH
0	22.7.10	ISSUED FOR CONSTRUCTION	MY	TH



DATE	22.7.10	CLIENT	EILBECK CRANES	SCALE:	2:1	A3
DRAWN	MY	PROJECT	STANDARD ENGINEERING DESIGNS	DRAWING NUMBER		REV.
CHECKED	TH	DRG. TITLE	STANDARD ELECTRICAL DRAWINGS SQUARE BAR CATENARY SYSTEM CATENARY SUPPORT COUPLER COMPONENTS			
APPROVED	TLE				ECE-SED-E 204	01

APPENDIX B REFERENCE PHOTOS



