

82815001

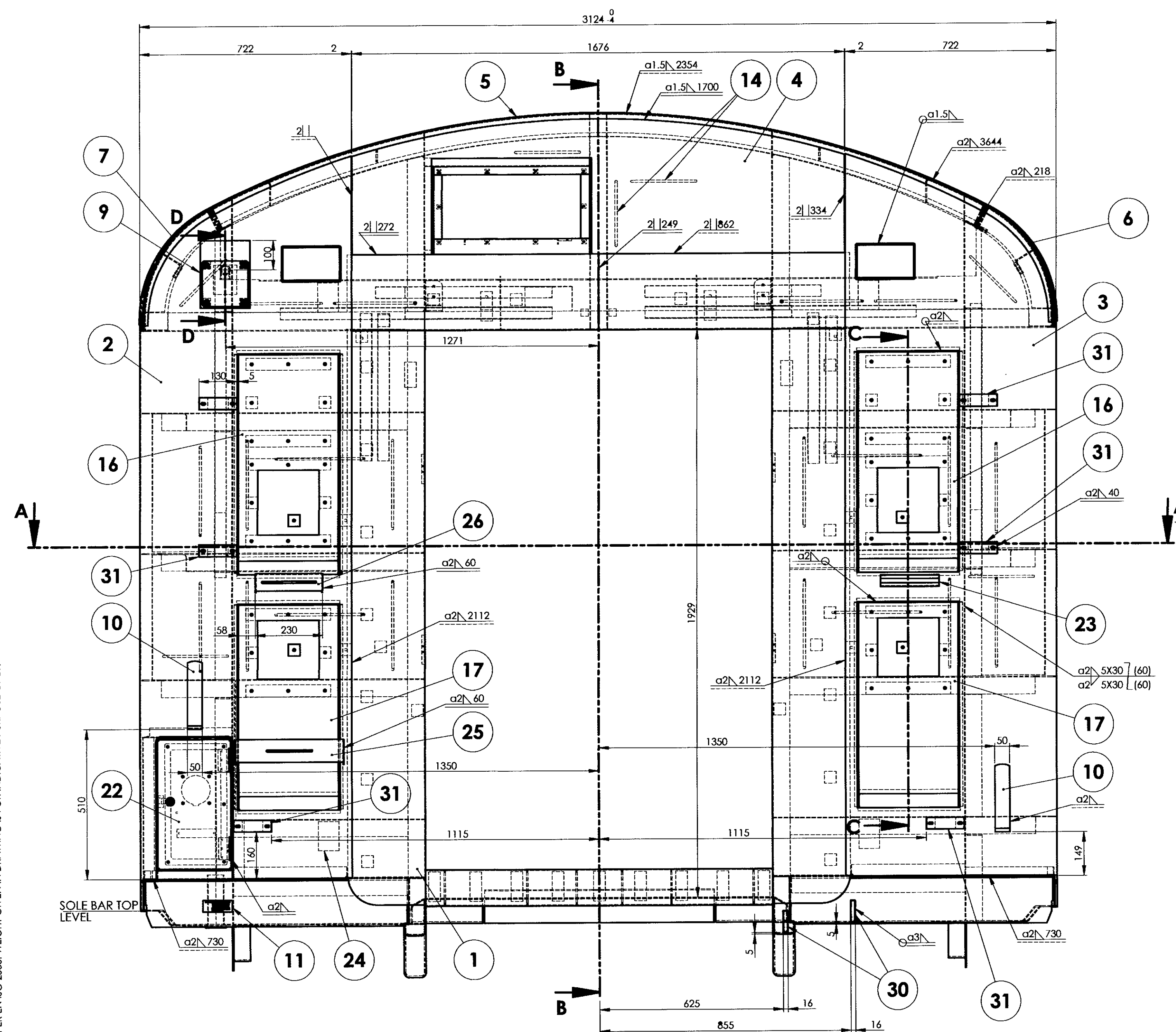
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▽▽ FINISH MACHINED
▽▽▽ FINE FINISH MACHINED

① ROUGH CLEANED
② BURRS REMOVED
③ CHAMFERED

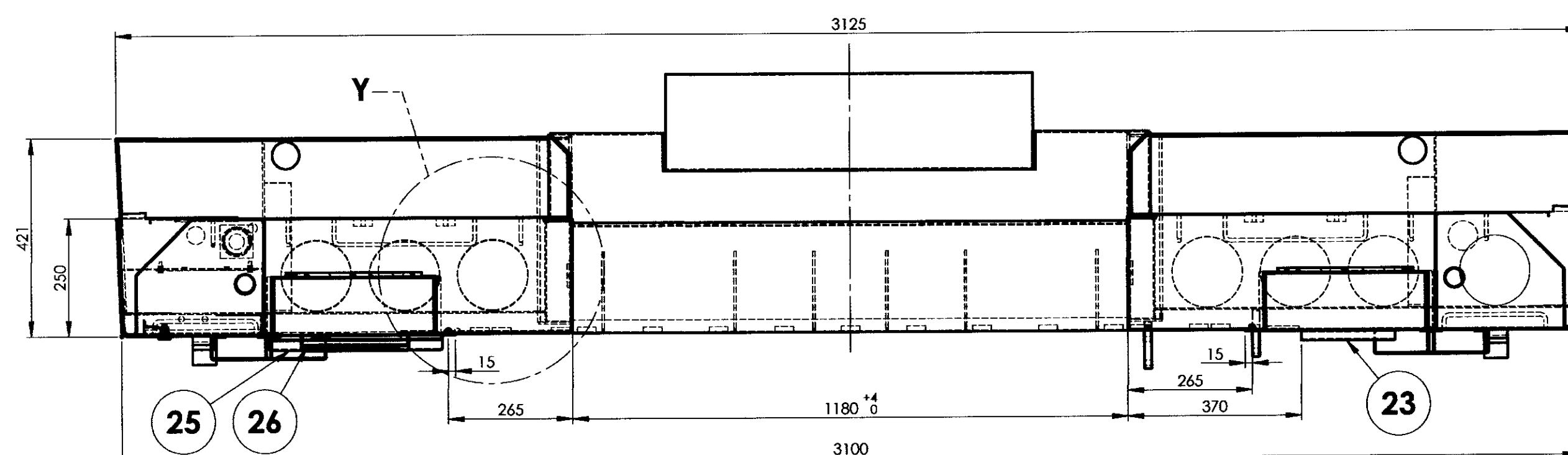
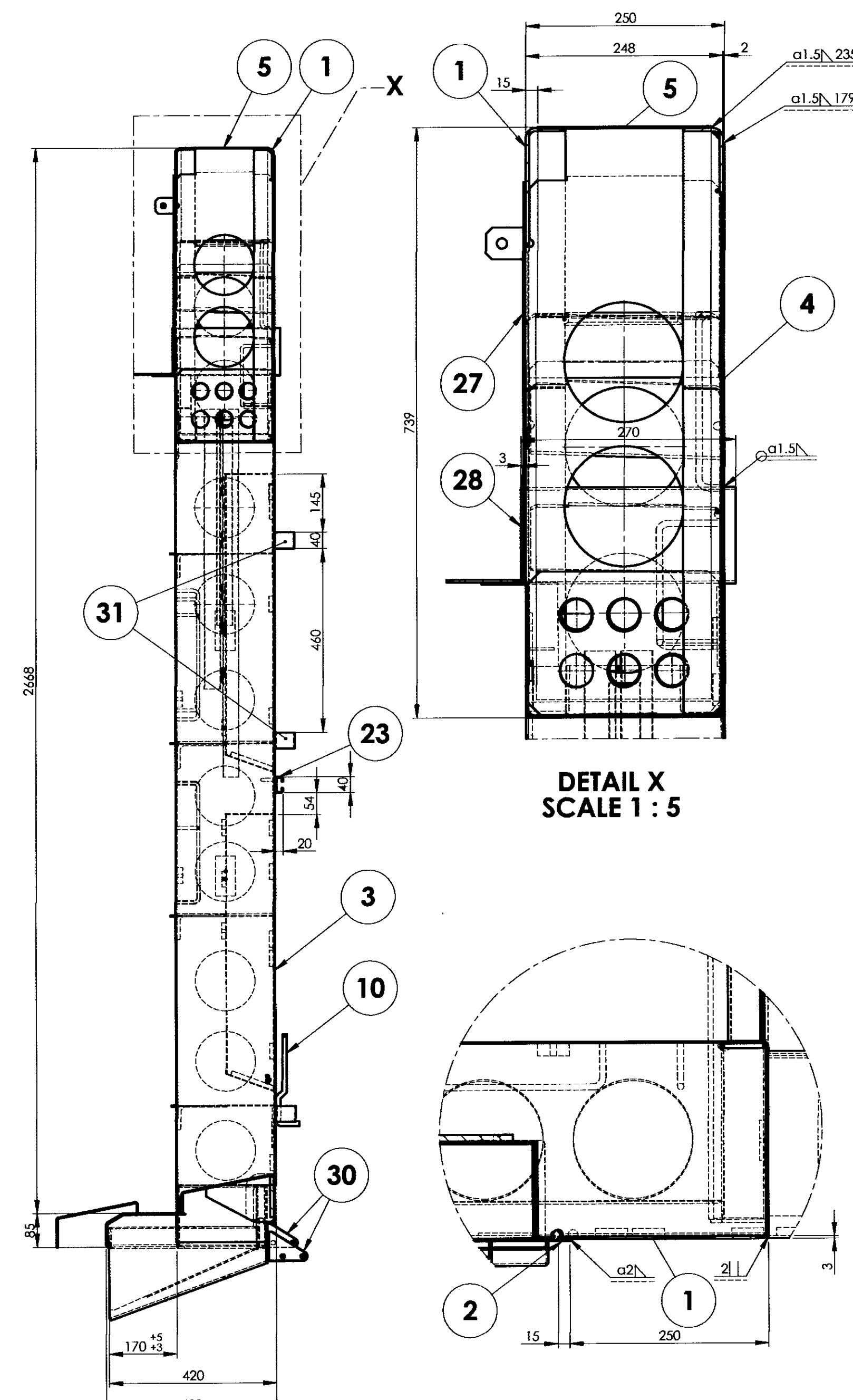
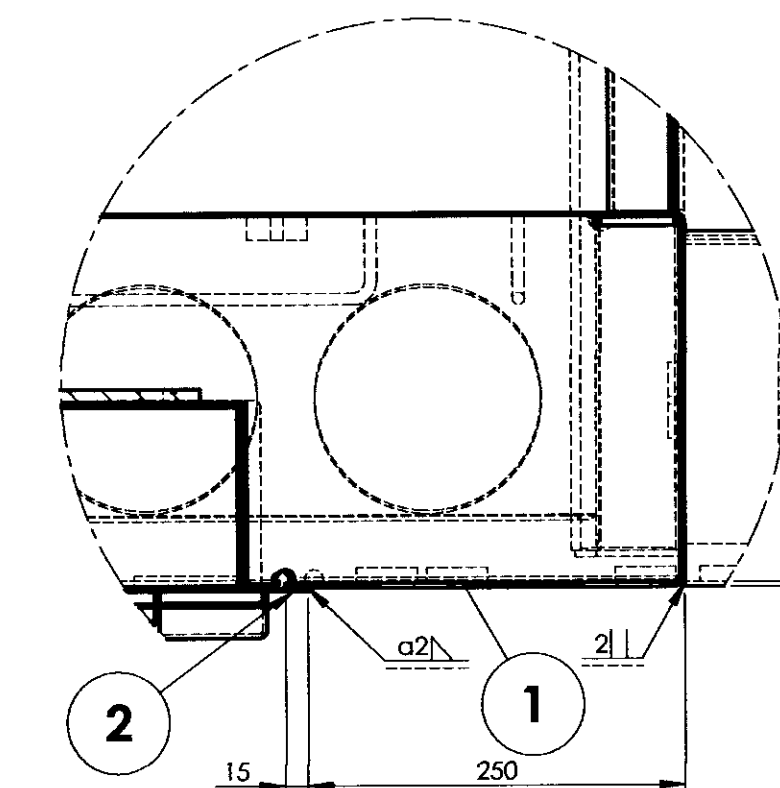
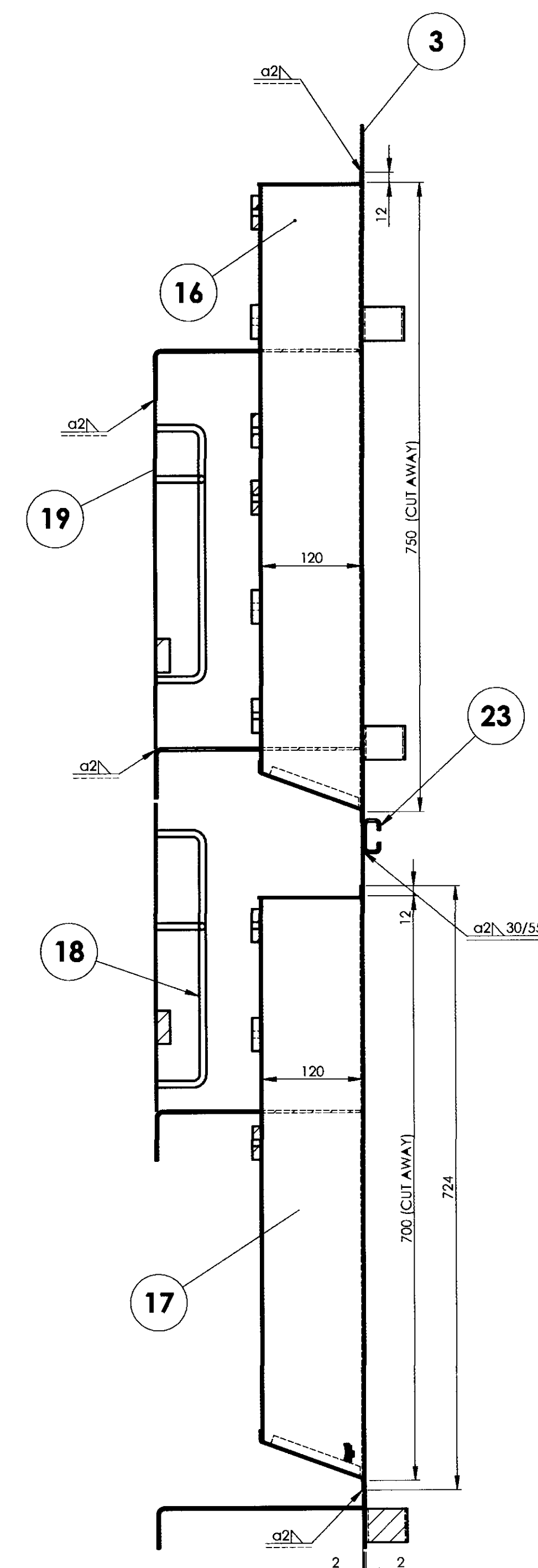
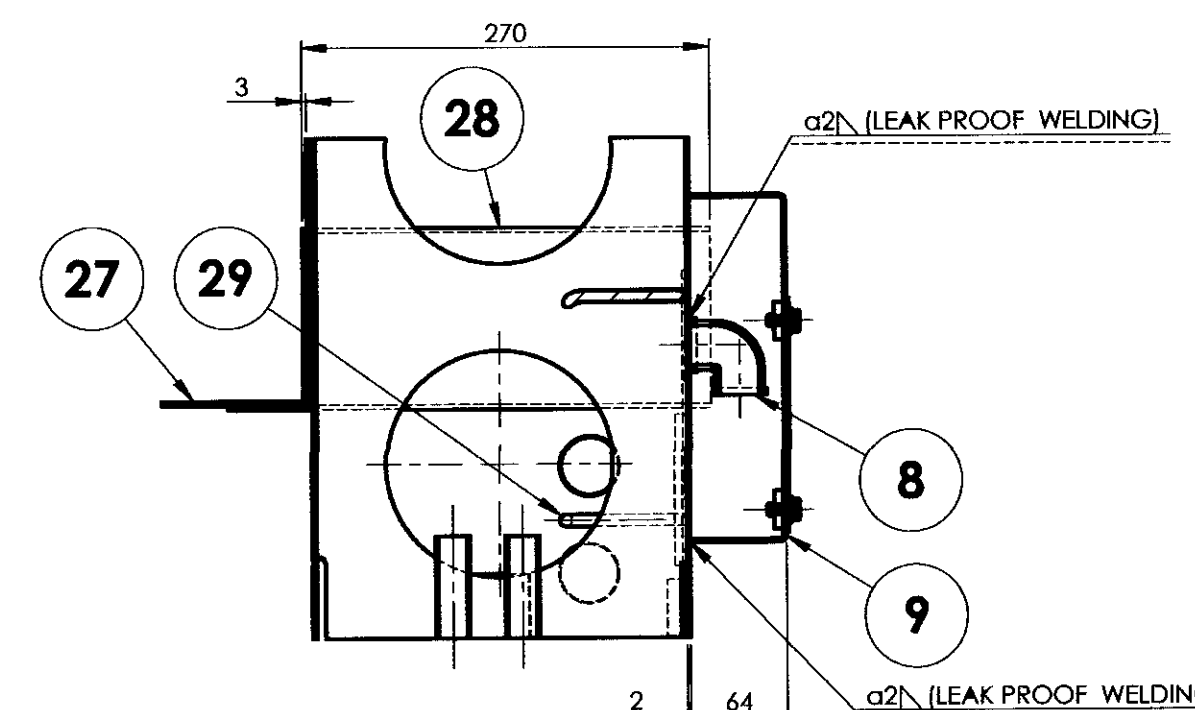
REVISIONS

ALT. ZONE DESCRIPTION

APPROVED & DATE



VIEW FROM COACH OUTSIDE

SECTION A-A
SCALE 1 : 10SECTION B-B
SCALE 1 : 10DETAIL Y
SCALE 1 : 5SECTION C-C
SCALE 1 : 5SECTION D-D
SCALE 1 : 5

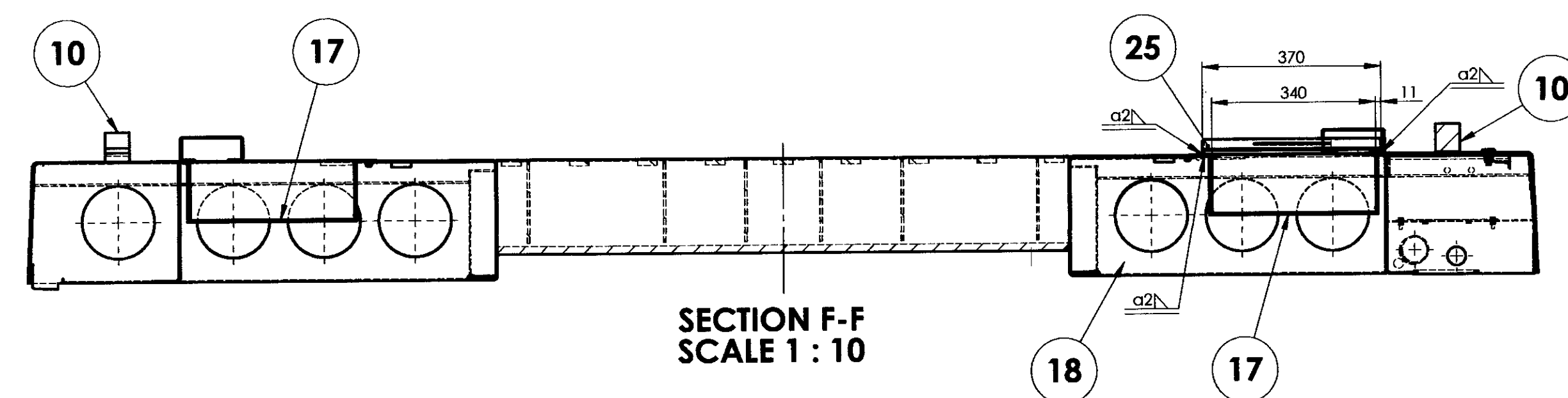
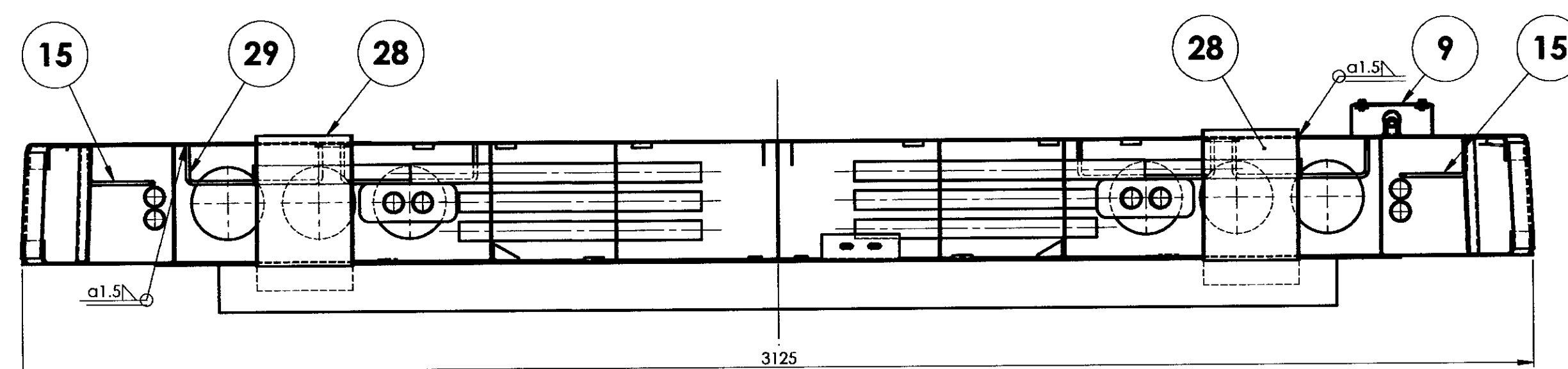
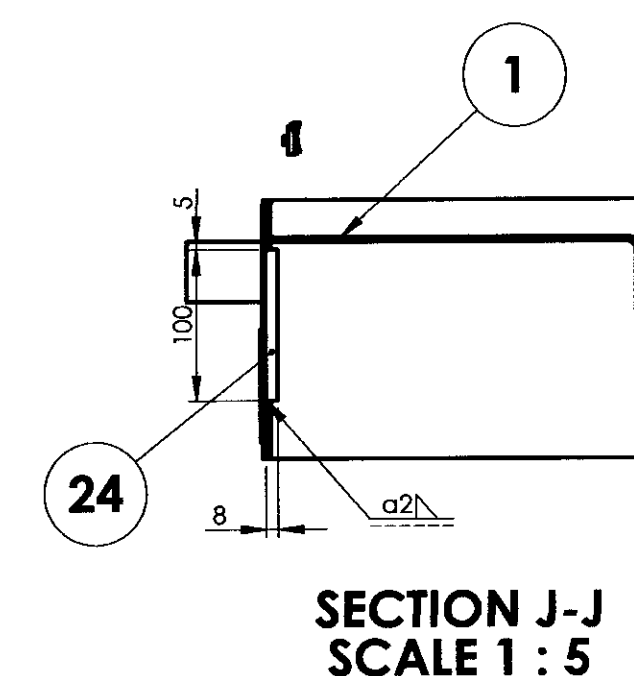
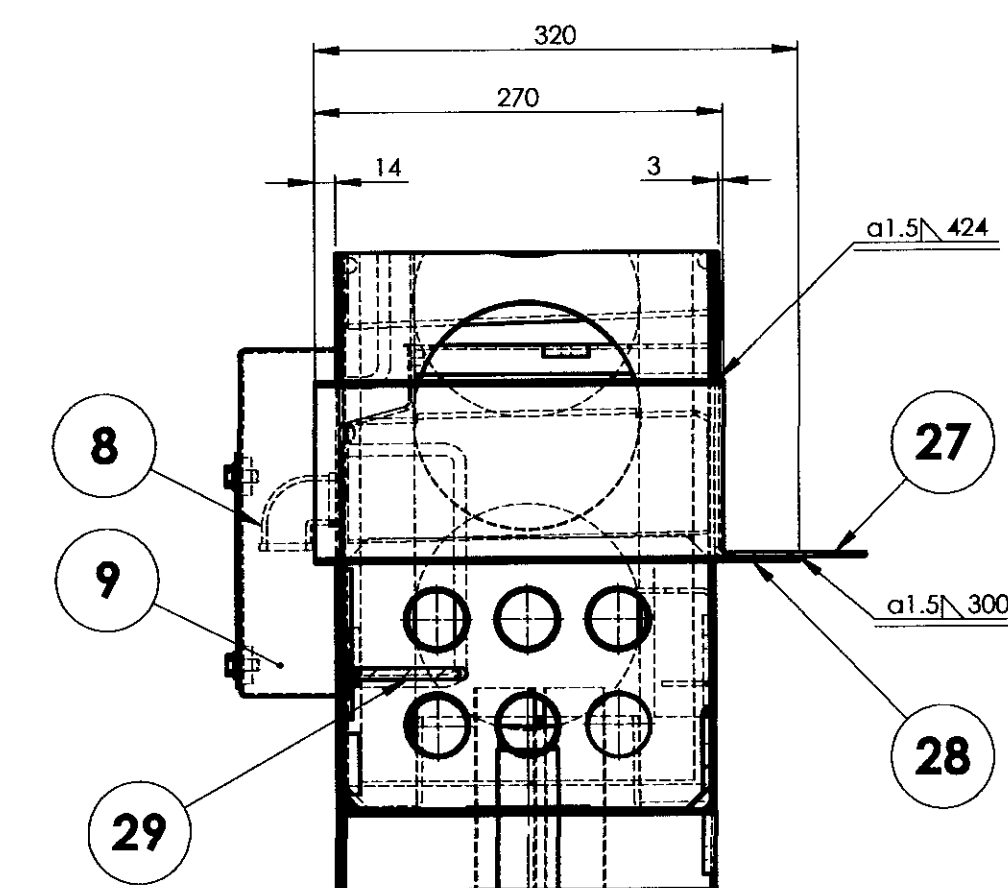
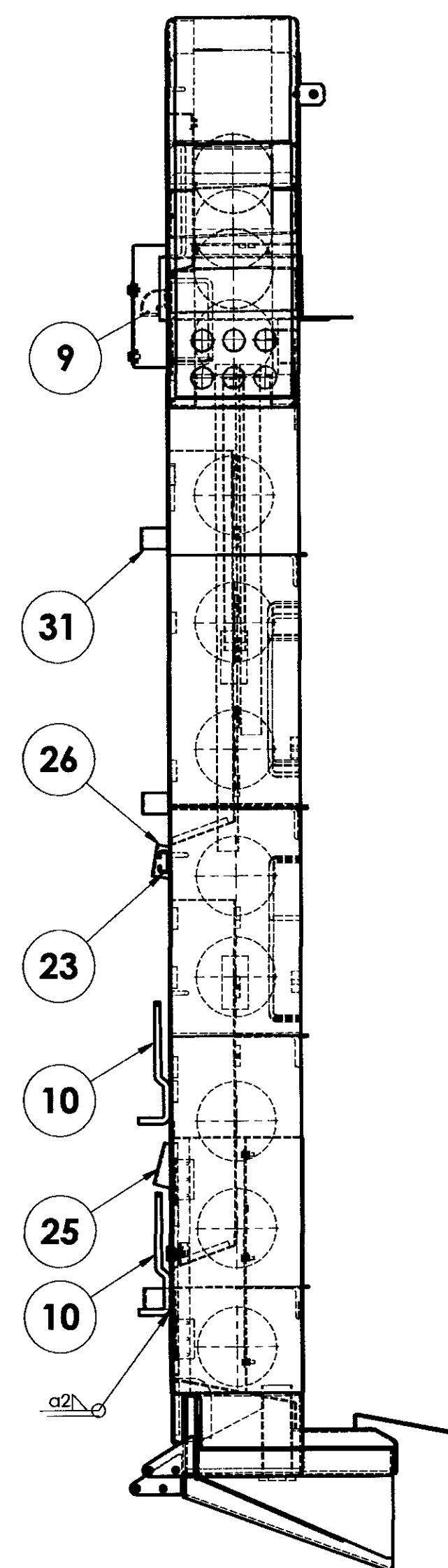
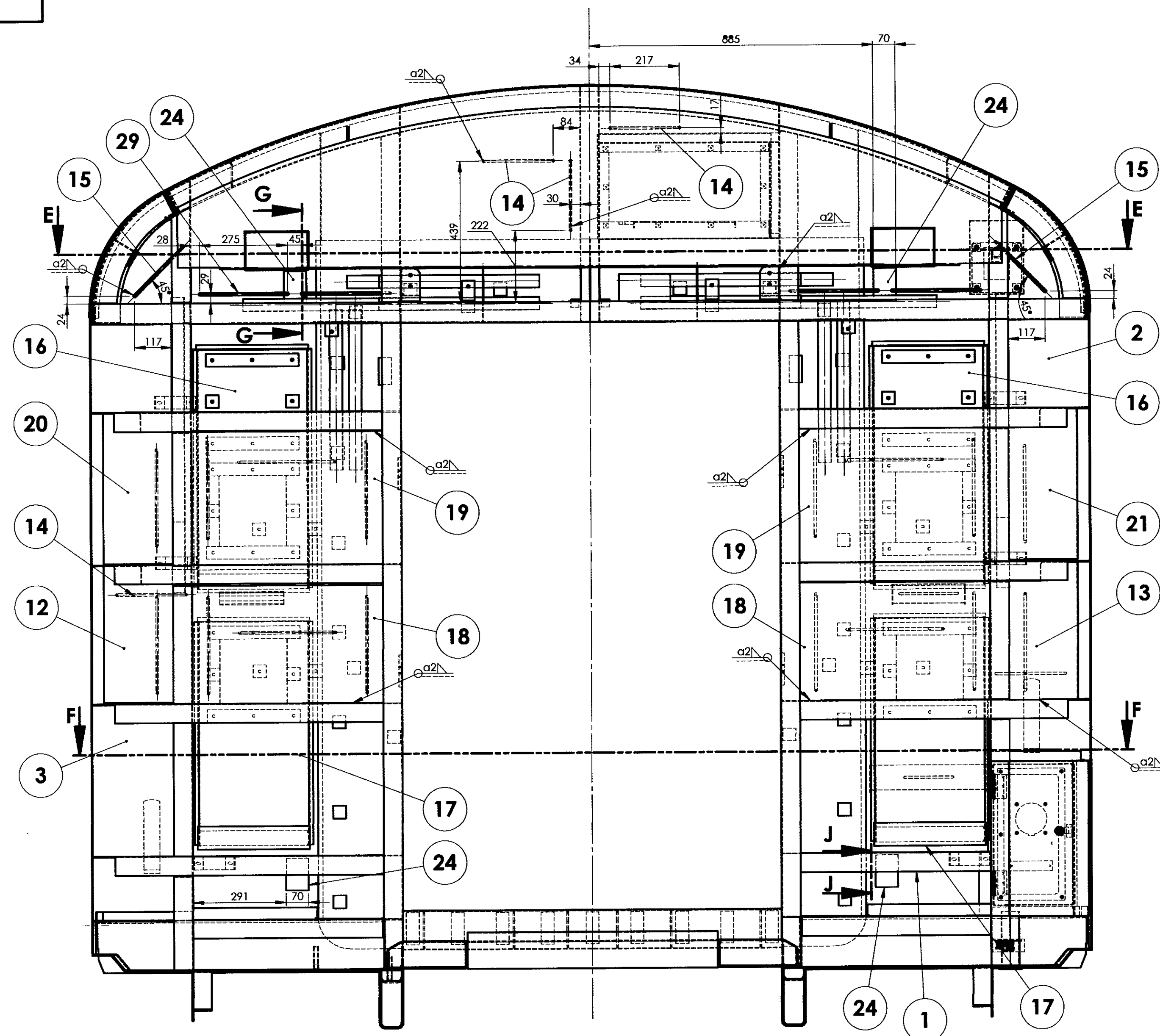
GROUP: 1-5 End Construction		SURFACE AREA IN Sq.m.:		WT/ASSY IN Kgs:	
SCALE 1:20		CHD		SSE/D	
ALT. a		ALTD		RAVI	
DRN		H. Irshath Ahmed		LWACCW/PP2	
INDIAN RAILWAY STANDARDS		SHEET 1 OF 3		82815001	
INTEGRAL COACH FACTORY, CHENNAI - 600038		A1			

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO. CF/STD-P-0-001. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER EN ISO 2553. WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY.

REF.DRG.NO.

82815001

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①① BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	①①① CHAMFERED



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REF.DRG.NO.

20-03-2025	22-08-2025	AME/SME
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	

GROUP: 1-5 End Construction	SURFACE AREA IN Sq.m.:	WT/ASSY IN Kgs:
END WALL COMPLETE NPP END		
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038		
SHEET 2 OF 3		
82815001		
A1		

82815001

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	② BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	③ CHAMFERED

ALT.	ZONE
a	

REVISIONS			APPROVED & DATE
QTY.	DESCRIPTION	DATE	
QTY. OF ITEM-31 REVISED FROM 4 NOS. TO 6 NOS.			

NOTE:

1. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC C-K201 SHALL BE USED FOR WELDING.
2. ALL WELD SPATTERS SHALL BE GROUND.
3. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
4. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
5. ALL WELDINGS SHALL BE TIG WELDING UNLESS OTHERWISE SPECIFIED.
6. FINISHED ASSEMBLY SHALL BE APPLIED WITH (AIRLESS SPRAY) ECO FRIENDLY WATER BASED MODIFIED EPOXY ZINC PHOSPHATE ETCH PRIMER TO ICF/MD/SPEC-231.
7. ITEM-11 (NAME PLATE) SHALL BE WELDED OR RIVETTED AT SUITABLE LOCATION AS SHOWN IN THE DRAWING.
8. ALL TAPPED HOLES TO BE CLOSED USING SUITABLE PVC PLUGS BEFORE PAINTING.
9. ALL WELD PERFORMANCE CLASS SHALL BE CP C2 UNLESS OTHERWISE SPECIFIED.
10. FOR WELD TESTING PREFERANCES REFER DRG.NO.ICF/STD-9-0-998.
11. FOR WELD PROCEDURE SPECIFICATION REFER DRG.NO.ICF/STD-9-0-999.
12. ALTERNATIVE MATERIAL IS: 6911 X02Cr12 (OR) IS: 6911 X04Cr19 Ni 9 CAN ALSO BE USED FOR CABLE SUPPORT ROD & BACK PIECES.
13. MASKING SHOULD BE DONE AT ALL EARTHING LUG/BOSS/GROUNDING FLAP'S WITH SUITBLE MASKING TAPE'S BEFORE PAINTING TO ENSURE PAINTLESS EARTHING SURFACE AND THE MASKING TAPE'S SHALL BE REMOVED AT FURNISHING STAGE DURING EARTHING CONNECTION OF ELECTRICAL EQUIPMENT'S.

6	BRACKET FOR DRAIN PIPE FIXING		31	AAE15086		0.25	
2	BRACKET		30	AAD15940		0.40	
4	CABLE SUPPORTING ROD		29	AAE15021		0.17	
2	RECTANGULAR TUBE		28	AAE15014		4.22	
1	FLANGE		27	AAE15007		28.814	
1	SUPPORTING BRACKET		26	AAD15985		0.37	
1	SUPPORTING BRACKET		25	AAD15978		0.75	
4	BACK PIECE	8x70x100	24		RDSO SPEC C-K201 X2 Cr Ni 12	0.45	
1	MOUNTING RAIL	L=200	23	AAE11737		0.41	
1	SHUTTER ASSEMBLY FOR EFT SOCKET		22	58115015		1.990	
1	ELEC COUPLER COVER COMPLETE		21	75415014		2.99	
1	ELEC COUPLER COVER COMPLETE		20	75415013		3.01	
2	ELEC COUPLER CLOSING PLATE		19	75415011		4.85	
2	ELEC COUPLER CLOSING PLATE		18	75415010		4.37	
2	BRACKET ASSEMBLY FOR EFT AND PARKING		17	75415007		9.50	
2	BRACKET ASSEMBLY FOR EFT AND PARKING		16	75415006		12.06	
2	CABLE SUPPORTING ROD		15	AAE15022		0.15	
5	CABLE TIE ROD		14	AAE15116		0.11	
1	ELEC COUPLER COVER COMPLETE		13	97115005		2.73	
1	ELEC COUPLER COVER COMPLETE		12	97115004		2.75	
1	NAME PLATE FOR SUPPLIER IDENTIFICATION		11	AAA51072		0.043	
2	BRACKET		10	AAA26077		1.286	
1	BRACKET ASSY COMPLETE FOR GPS ANTENA		9	79115005		1.806	
1	ELBOW	3/4" A1	8	IS:1877-2010 TAB-4	AISI-304	0.156	
1	COVERING SHEET		7	AAA15259		2.389	
1	COVERING SHEET		6	AAA15219		2.389	
1	COVERING SHEET		5	AAA15180		8.203	
1	END WALL TOP SHEET		4	AAE15038		8.379	
1	ENDWALL SHEET		3	AAD15989		25.134	
1	ENDWALL SHEET		2	AAD15988		23.088	
1	FRAME WORK		1	82815002		313.597	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRG.	MATL	WT/UNIT IN KGS	REMARKS

GROUP: 1-5 End Construction	SURFACE AREA IN Sq.m.:	WT/ASSY IN Kgs:
SCALE 1:20		SSE/D CHD
END WALL COMPLETE NPP END		ALT. a
INDIAN RAILWAY STANDARDS		ALT. DRN
INTEGRAL COACH FACTORY, CHENNAI - 600038		RAVI H. kshath Ahmed
SHEET 3 OF 3		LWACCW/PP2
82815001		A1

20-03-2025	22-08-2025	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

COACH INSIDE ISOMETRIC VIEW

COACH OUTSIDE ISOMETRIC VIEW

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REF.DRG.NO.

82815002

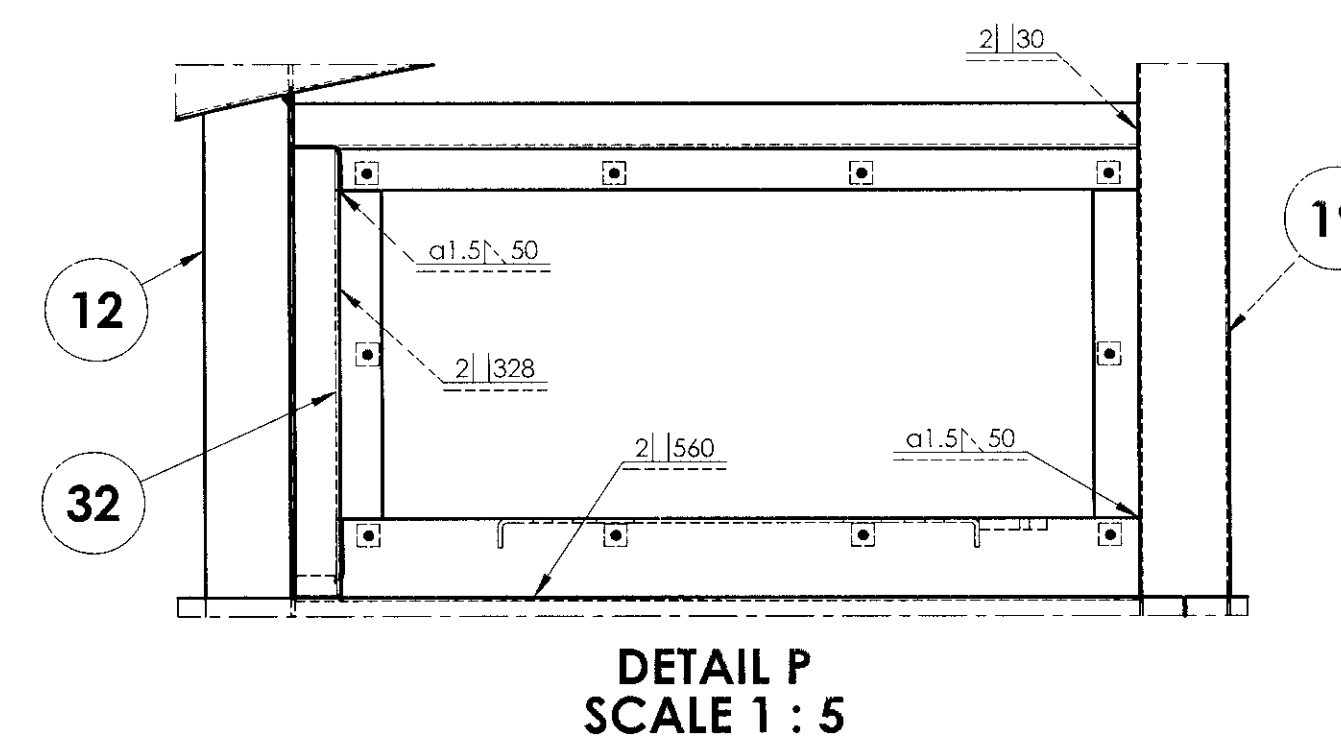
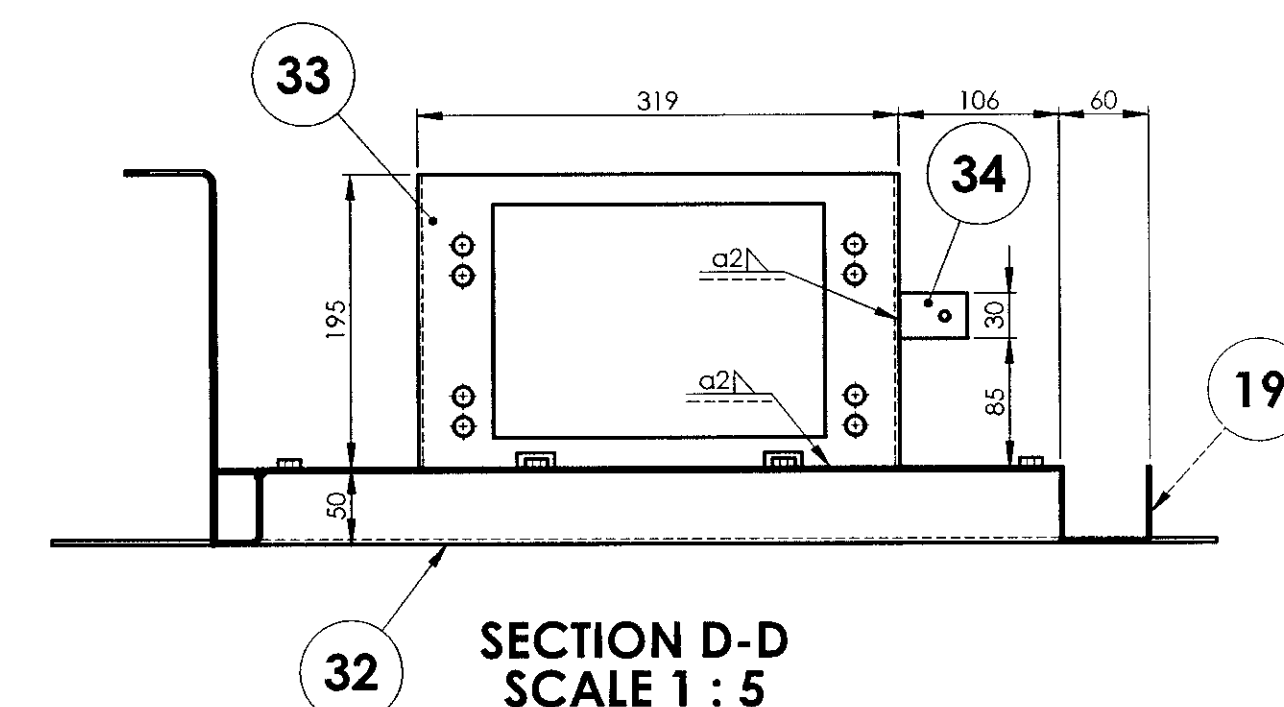
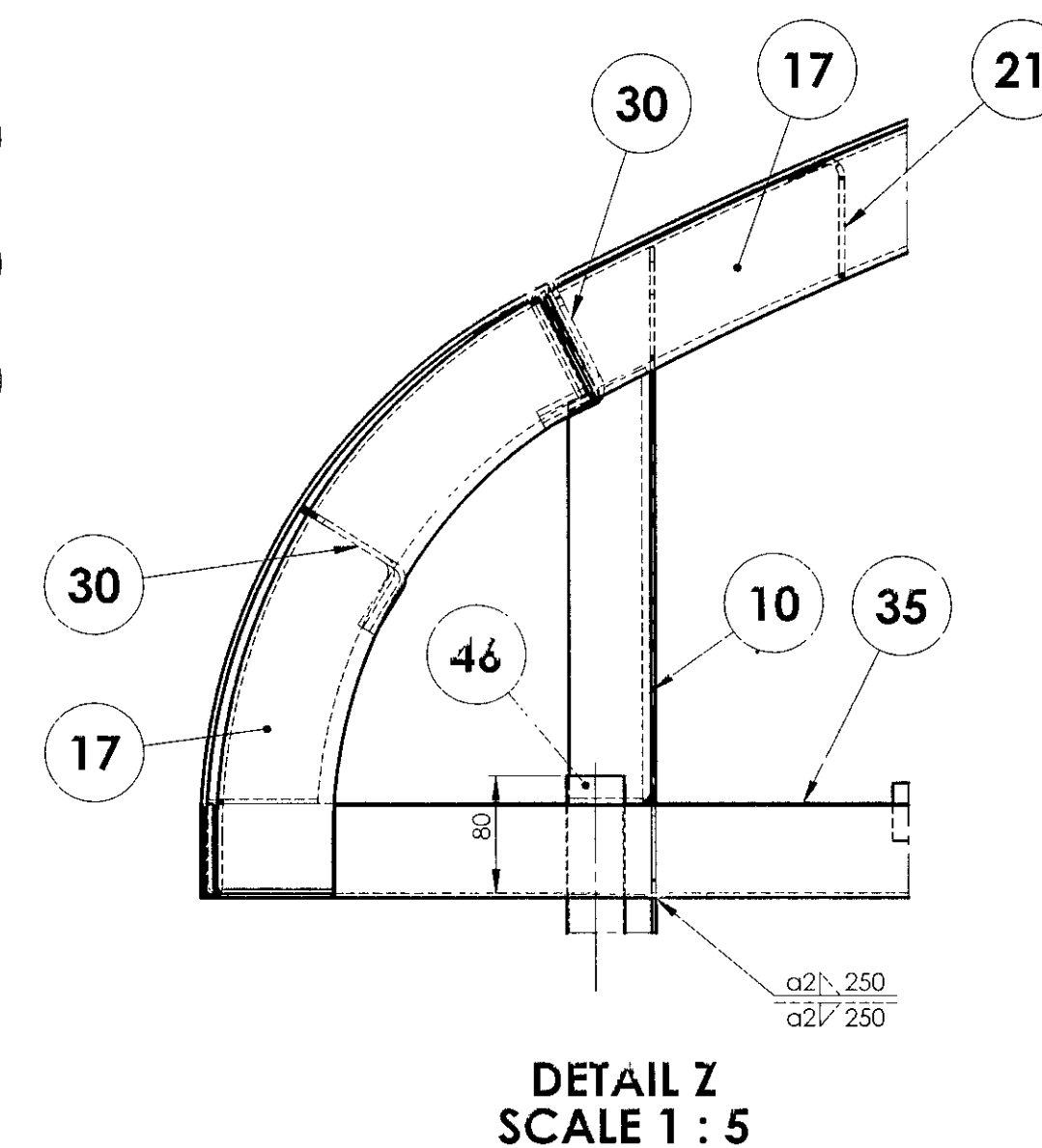
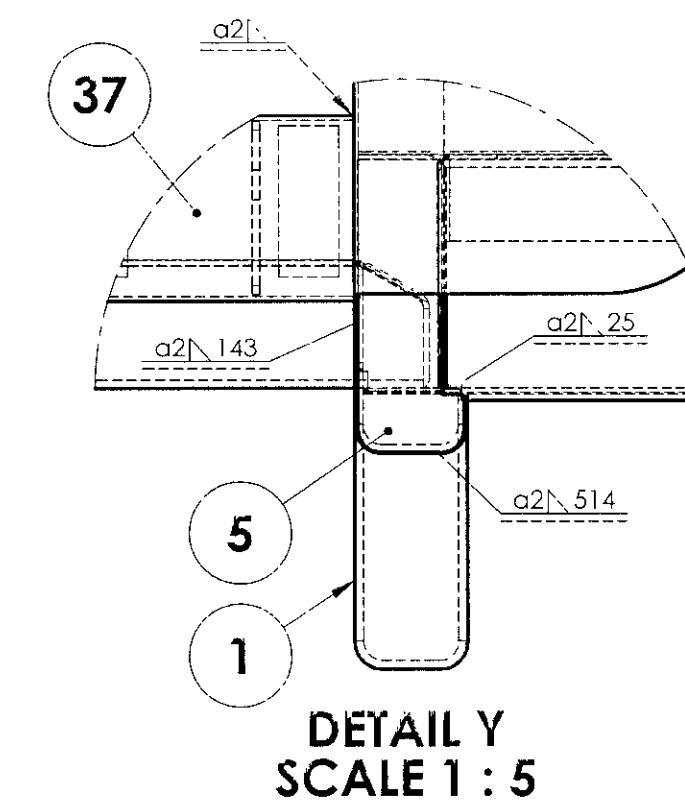
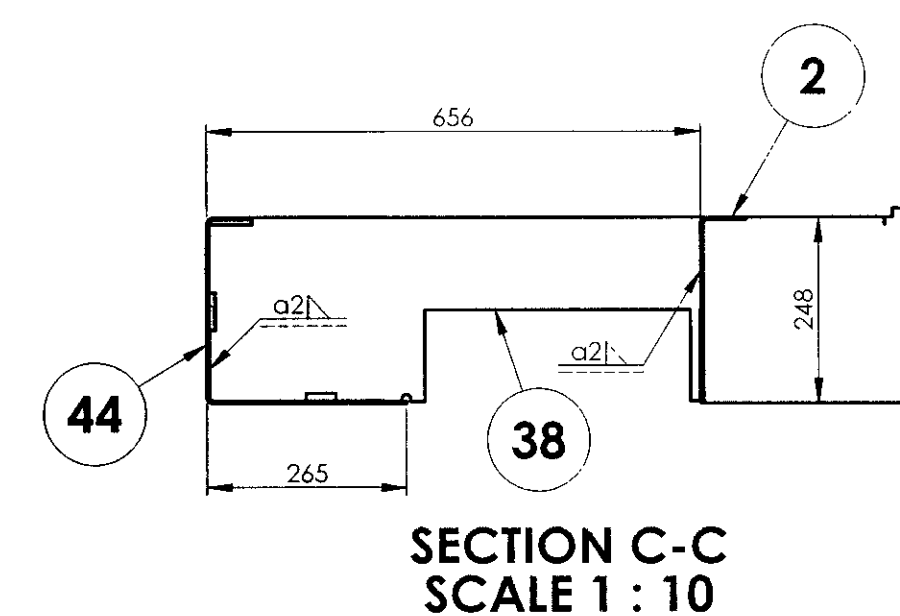
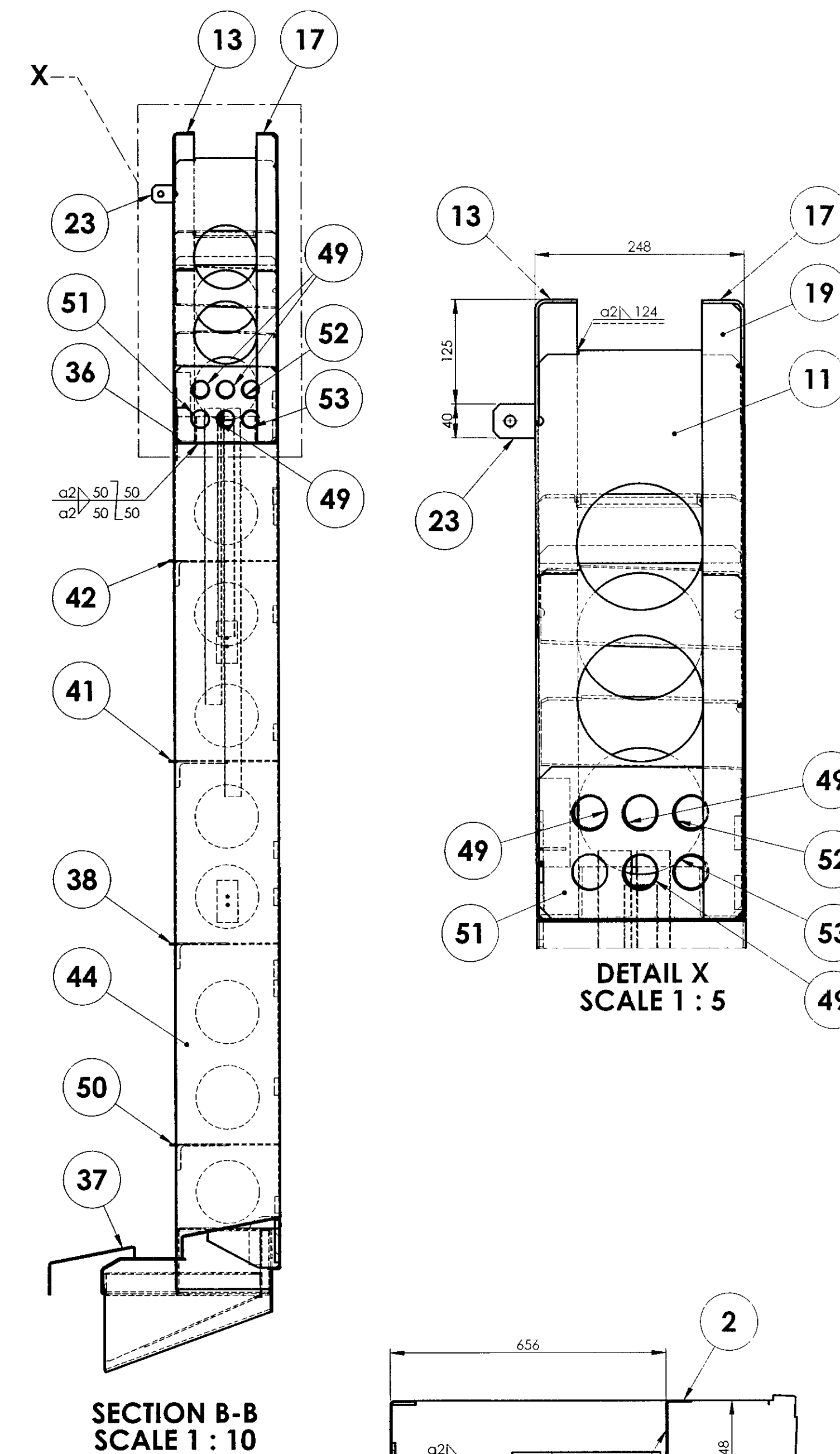
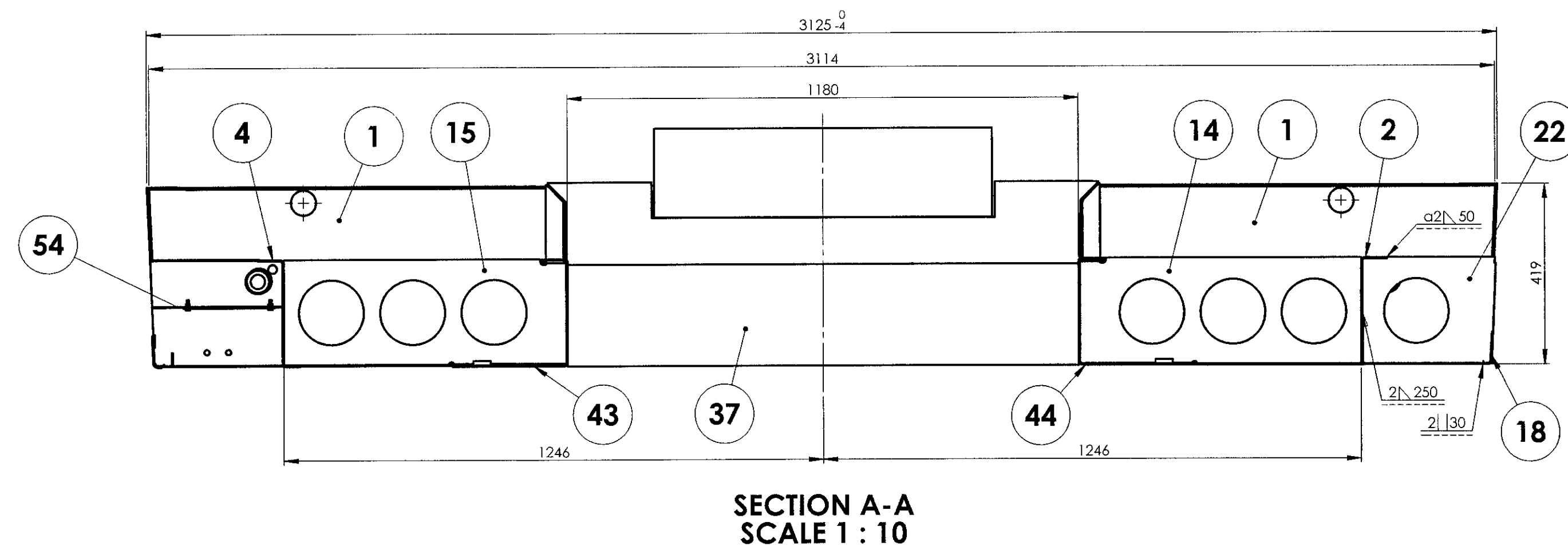
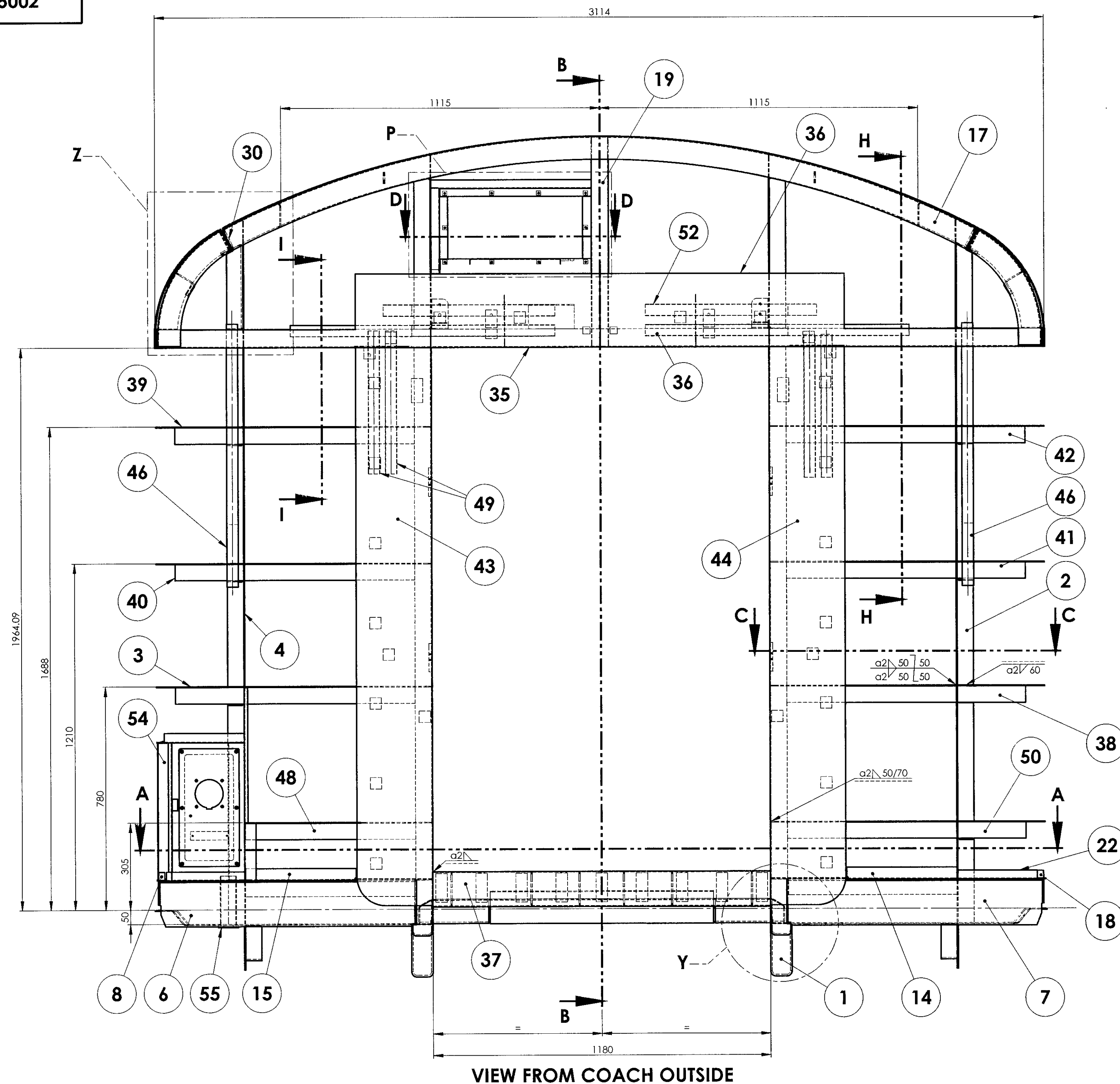
▽ ROUGH MACHINED
▽▽ FINISH MACHINED
▽▽▽ FINE FINISH MACHINED

① ROUGH CLEANED
② BURRS REMOVED
③ CHAMFERED

REVISIONS

ALT. ZONE DESCRIPTION

APPROVED & DATE



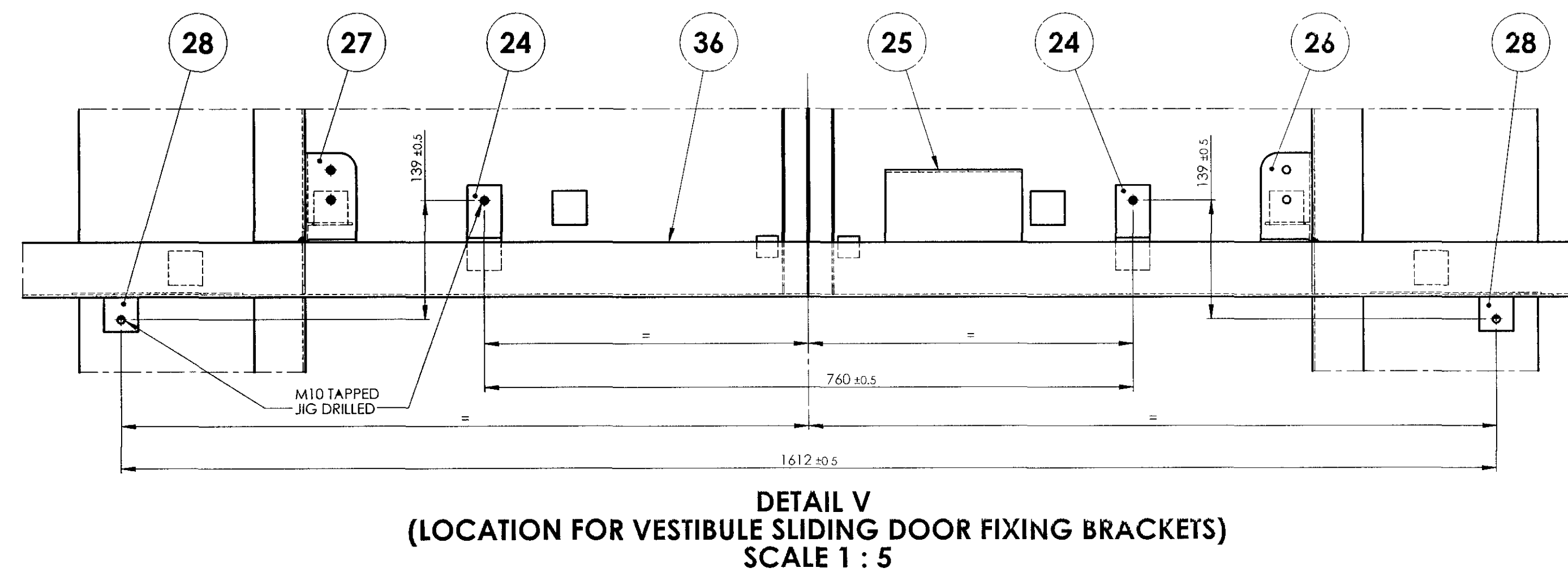
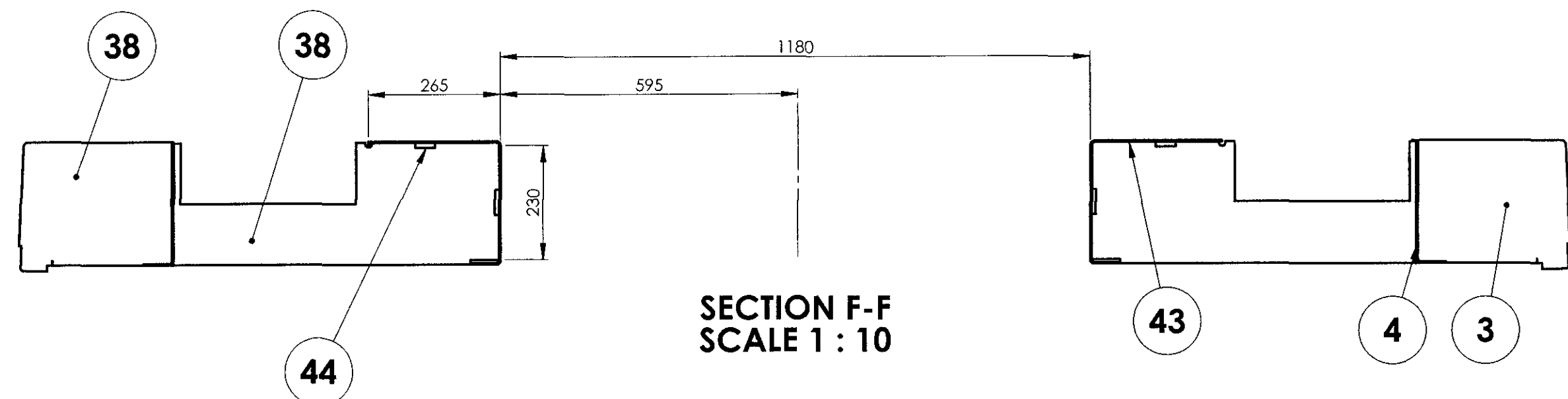
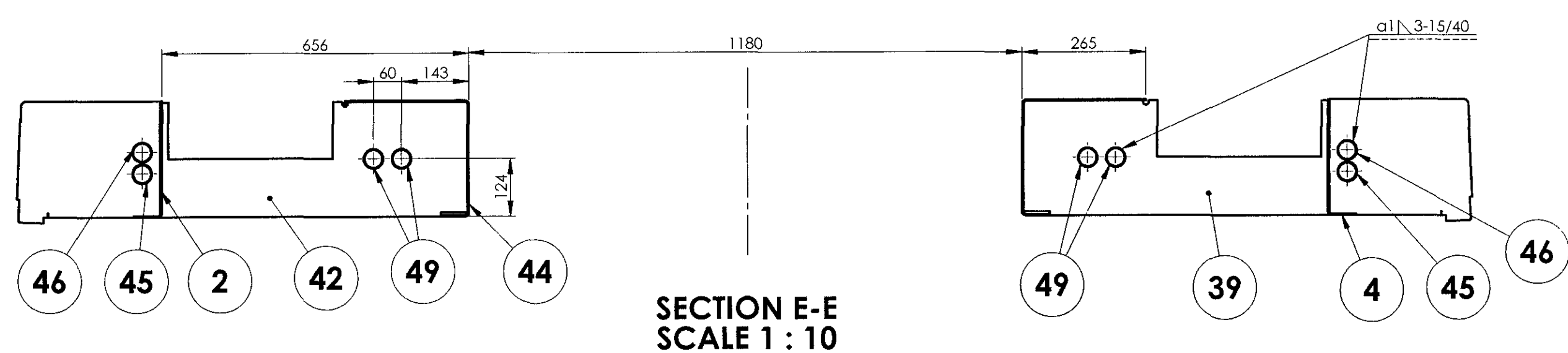
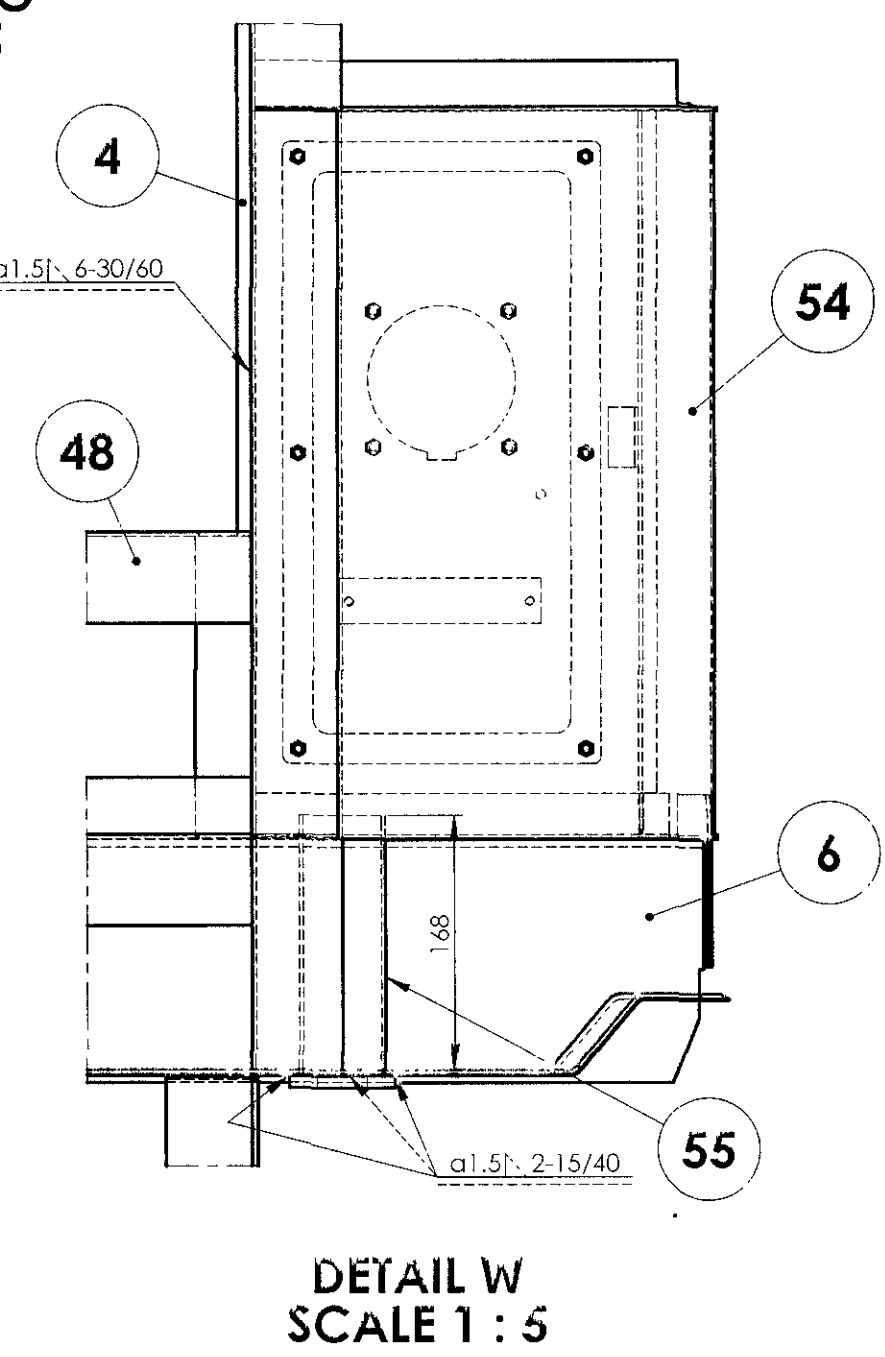
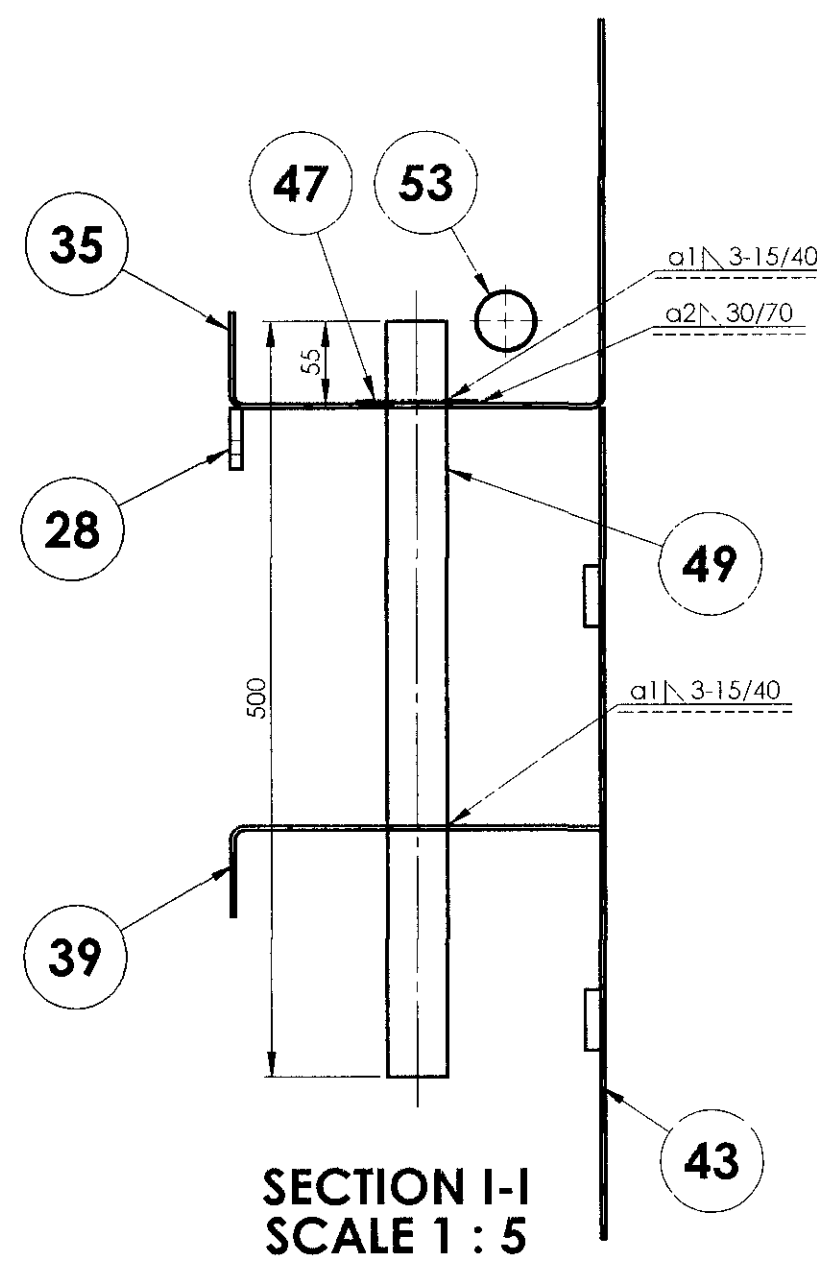
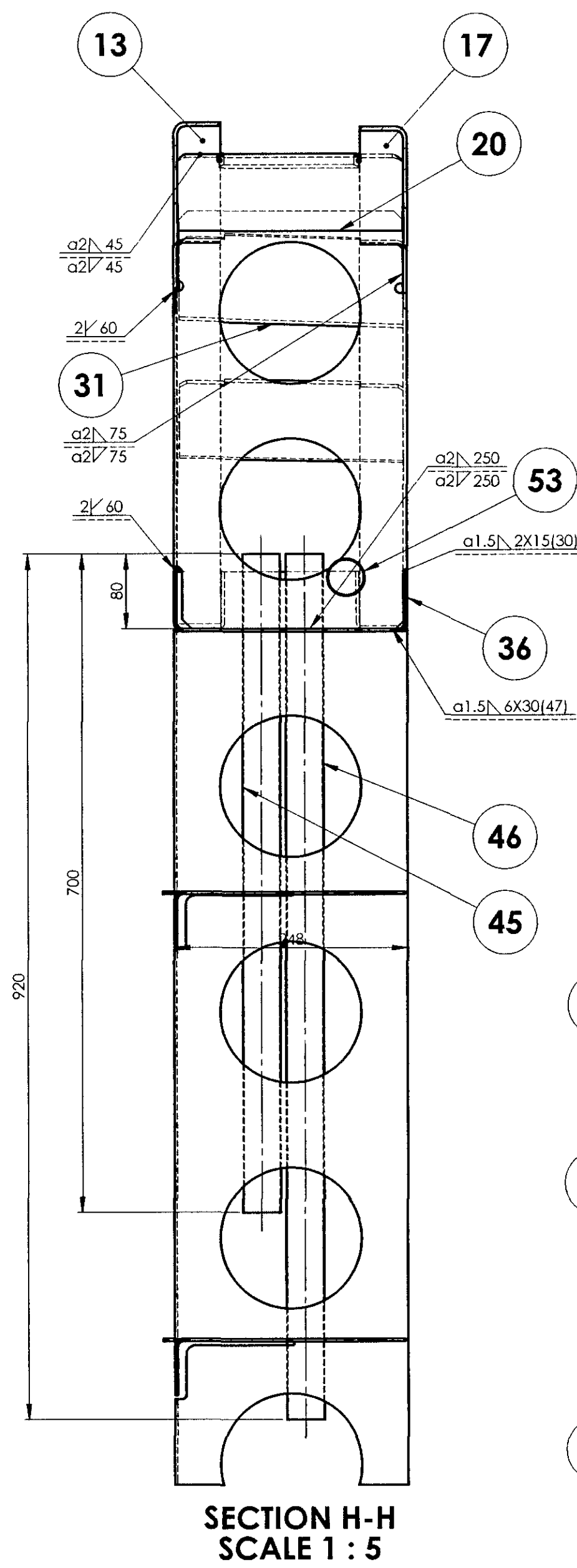
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNLOCATED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0001.
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REF.DRG.NO.

DATE OF LATEST ALT. 22/01/25
DATE OF FIRST ISSUE
AME/SME

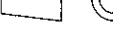
GROUP: 1-5 End Construction		SURFACE AREA IN Sq.m.:		WT/ASSY IN Kgs:	
SCALE 1:10		SSE/D		CHD	
ALT		ALTD		DRN	
INDIAN RAILWAY STANDARDS		SHEET 1 OF 3		LWACCW/PP2	
INTEGRAL COACH FACTORY, CHENNAI - 600038		82815002		A1	

▽ ROUGH MACHINED	(11) ROUGH CLEANED
▽▽ FINISH MACHINED	(12) BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	(13) CHAMFERED



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REF.DRG.NO.

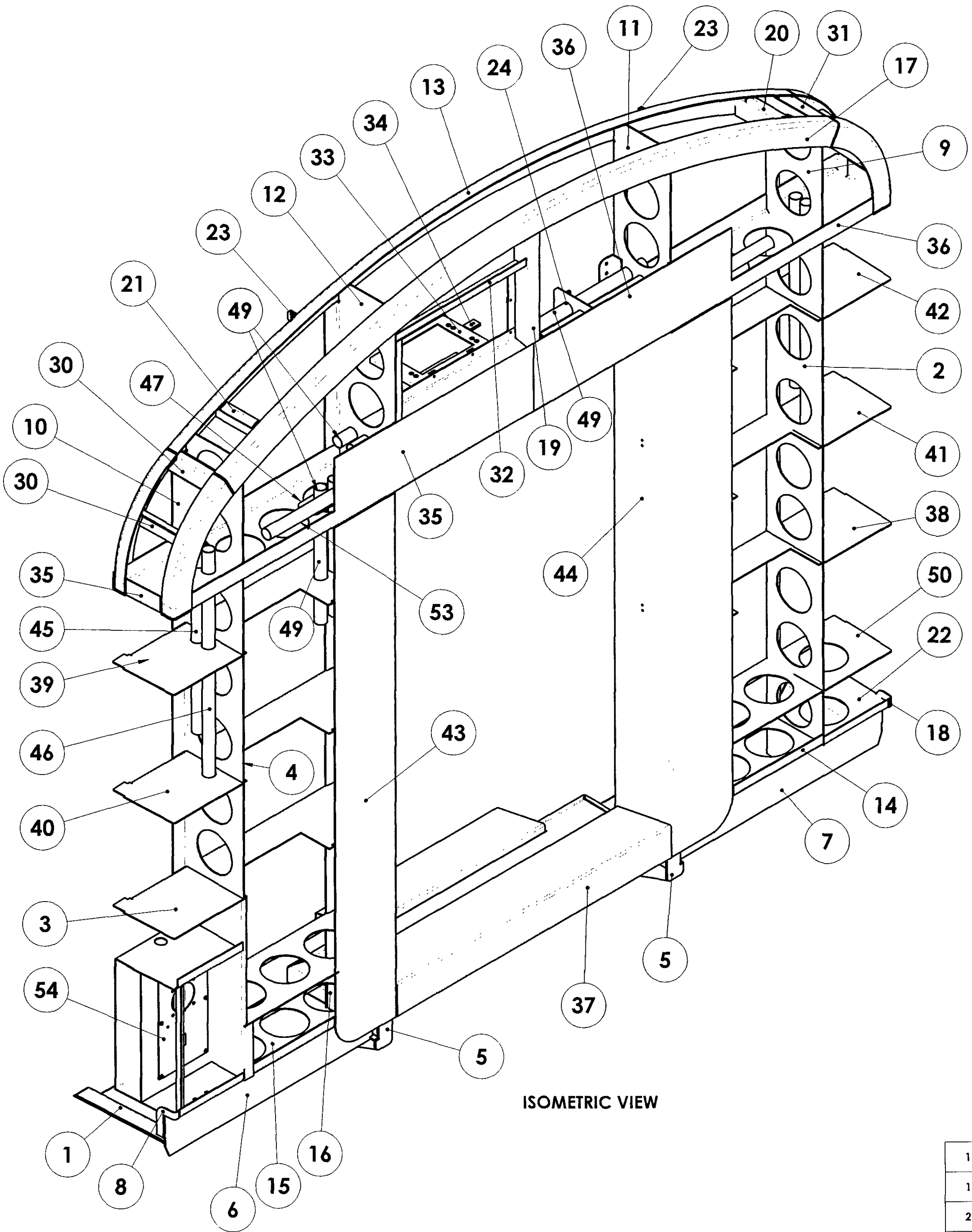
GROUP: 1-5 End Construction		SURFACE AREA IN Sq.m.:		WT/ASSY IN Kgs:	
<div style="text-align: center;"> <h2>FRAME WORK</h2> </div>				SCALE	<i>P. Pandurang C.</i>
				1:10	SSE/D CHD
				ALT.	ALTD
				-	DRN
<div style="text-align: center;"> <h3>INDIAN RAILWAY STANDARDS</h3> <p>INTEGRAL COACH FACTORY, CHENNAI - 600038</p> </div>					LWACCW/PP2
					<div style="display: flex; justify-content: space-between;"> <div> <p>SHEET</p> <p>2 OF 3</p> </div> <div> <p>82815002</p> </div> <div> <p>A1</p> </div> </div>

82815002

▽ ROUGH MACHINED
▽▽ FINISH MACHINED
▽▽▽ FINE FINISH MACHINED

⑪ ROUGH CLEANED
⑫ BURRS REMOVED
⑬ CHAMFERED

REVISIONS
ALT. ZONE DESCRIPTION APPROVED & DATE



ISOMETRIC VIEW

NOTE:

1. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC C-K201 SHALL BE USED FOR WELDING.
2. ALL WELD SPATTERS SHALL BE GROUND.
3. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
4. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
5. ALL WELDINGS SHALL BE TIG WELDING UNLESS OTHERWISE SPECIFIED.
6. ALL WELD PERFORMANCE CLASS SHALL BE CP C2 UNLESS OTHERWISE SPECIFIED.
7. FOR WELD TESTING PREFERENCES REFER DRG. No. ICF/STD-9-0-998.
8. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.
9. ALL TAPPED HOLES FOR FIXING VESTIBULE SHALL BE DONE BY THE FIRM TO SUIT AT SITE.
10. ALTERNATIVELY SS WELDED TUBES TO SPEC. ASTM A554 GRADE MI 304 (OR) ASTM A269/A269M GRADE TP 304 CAN ALSO BE USED FOR CONDUITS.

1	PIPE COMPLETE		55	49515018		0.859	
1	BRACKET COMPLETE		54	58115004		9.130	
2	CONDUIT	1mm THK x Ø40 x 925	53		IS:17874 X04C19N19	0.90	
2	CONDUIT	1mm THK x Ø40 x 400	52		IS:17874 X04C19N19	0.58	
2	SUPPORT FOR CONDUITS		51	AAE15019		0.55	
1	FLANGE		50	AAE15049		5.044	
10	CONDUIT	1mm THK x Ø40 x 500	49		IS:17874 X04C19N19	0.49	
1	FLANGE		48	AAD15905		3.354	
2	SUPPORT FOR CONDUIT		47	AAD15711		0.21	
2	CONDUIT		46	AAD15858		0.89	
2	CONDUIT		45	AAD15859		0.48	
1	RAM PILLAR ASSEMBLY		44	75415024		28.57	
1	RAM PILLAR ASSEMBLY		43	75415025		28.57	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS

1	FLANGE		42	AAE15047		5.581	
1	FLANGE		41	AAE15046		5.481	
1	FLANGE		40	AAE15045		5.484	
1	FLANGE		39	AAE15043		5.584	
1	FLANGE		38	AAE15048		5.702	
1	RAMP ARRANGEMENT		37	75415022		23.787	
1	FLANGE		36	75415028		14.45	
1	FLANGE		35	75415027		14.45	
1	GROUNDING FLAP		34	AAA10972		0.084	
1	BRACKET		33	AAA15181		0.774	
1	FRAME COMPLETE		32	49515012		2.849	
2	REINFORCEMENT		31	AAA15474		0.911	
2	REINFORCEMENT		30	AAA15473		0.911	
2	FLAT		29	AAA10971		0.025	
2	BACK PIECE		28	AAA10969		0.102	
1	BRACKET COMPLETE		27	SSA10020		0.257	
1	BRACKET COMPLETE		26	SSA10019		0.257	
1	BRACKET		25	AAA10964		0.497	
2	BRACKET		24	AAA10961		0.222	
2	GROUNDING FLAP		23	AAA15445		0.087	
1	FLANGE		22	AAA15414		1.294	
1	REINFORCEMENT		21	AAA15205		0.741	
1	REINFORCEMENT		20	AAA15204		0.780	
1	REINFORCEMENT		19	AAA15210		1.458	
1	REINFORCEMENT		18	AAA15232		0.088	
1	ARCH COMPLETE		17	59315003		14.208	
2	WEB		16	AAA15208		0.782	
1	FLANGE LH		15	AAE15044		3.44	
1	FLANGE RH		14	AAE15050		3.45	
1	ARCH COMPLETE		13	59315004		13.994	
1	PILLAR		12	AAE15018		3.545	
1	PILLAR		11	AAE15017		3.545	
1	PILLAR		10	AAA15237		2.101	
1	PILLAR		9	AAA15238		2.101	
1	REINFORCEMENT		8	AAA15252		0.089	
1	FRAMEWORK PART		7	AAA15253		4.519	
1	FRAMEWORK PART		6	AAA15254		4.520	
2	REINFORCEMENT		5	AAA15257		0.342	
1	RAM PILLAR		4	AAE15430		12.184	
1	FLANGE		3	AAE15044		5.719	
1	RAM PILLAR		2	AAE15431		10.583	
1	SILL ARRANGEMENT		1	49515003		39.942	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS

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REF.DRG.NO.

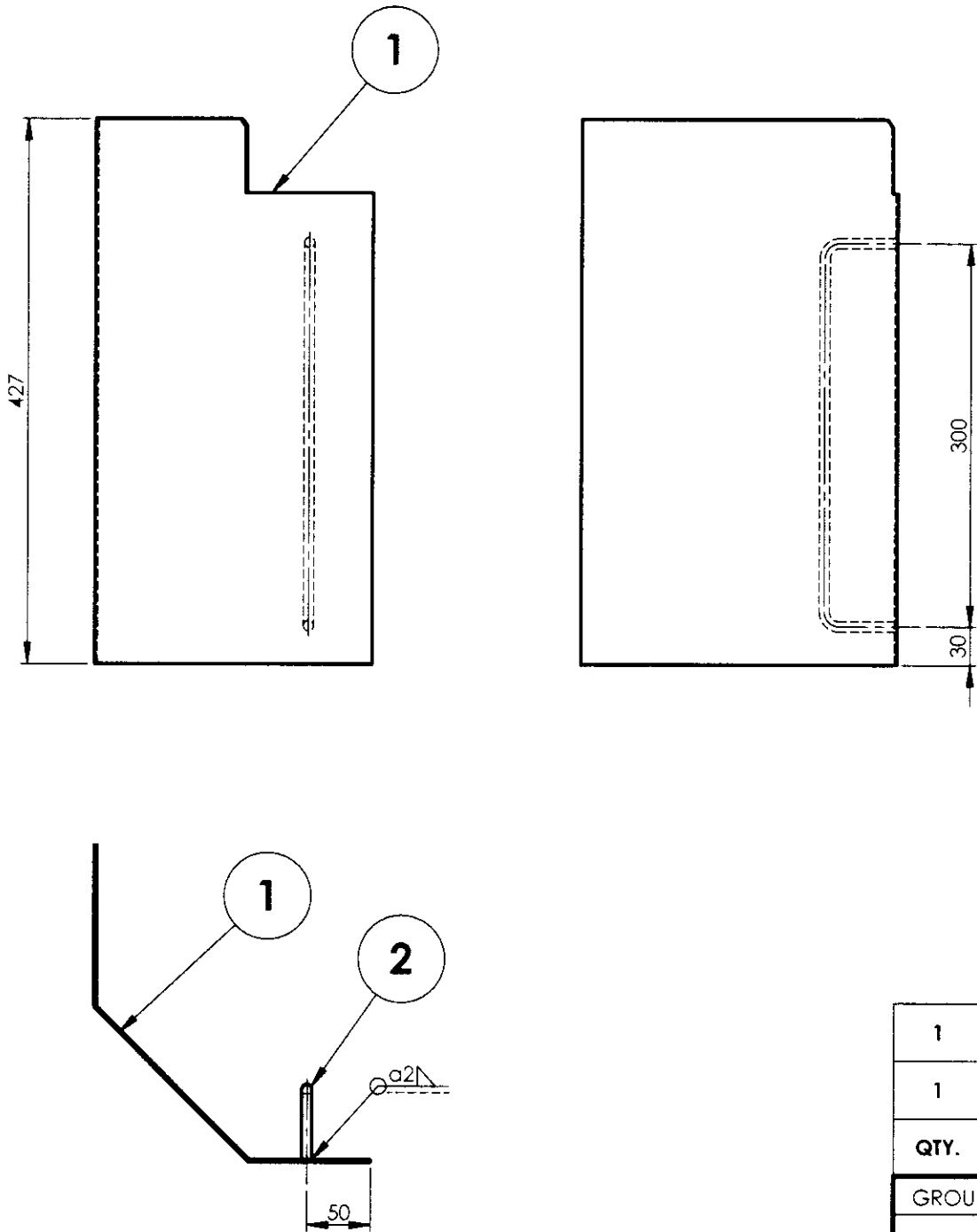
DATE OF LATEST ALT. 22/8/25
DATE OF FIRST ISSUE
AME/SME

GROUP: 1-5 End Construction SURFACE AREA IN Sq.m.:
SCALE 1:10
SSE/D CHD
ALT ALTD
DRN H. irshath Ahmed
INDIAN RAILWAY STANDARDS
INTEGRAL COACH FACTORY, CHENNAI - 600038
SHEET 3 OF 3
82815002
A1

97115004

▽ ROUGH MACHINED	⊙ ROUGH CLEANED
▽▽ FINISH MACHINED	⊙ BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	⊙ CHAMFERED

REVISIONS				APPROVED & DATE	
ALT.	ZONE	DESCRIPTION			



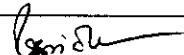
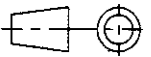
NOTE:-

- 1. ALL WELDING SHALL BE OF TIG UNLESS OTHERWISE SPECIFIED.
- 2. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC. CK-201 SHALL BE USED FOR WELDING.
- 3. ALL WELDED JOINTS SPATTERS SHALL BE GROUND.
- 4. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
- 5. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
- 6. FOR WELD TESTING PREFERANCES REFER DRG No ICF/STD-9-0-998.
- 7. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No ICF/STD-9-0-999.

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	05-09-2023	
DATE OF LATEST ALT	DATE OF FIRST ISSUE	AME/SME

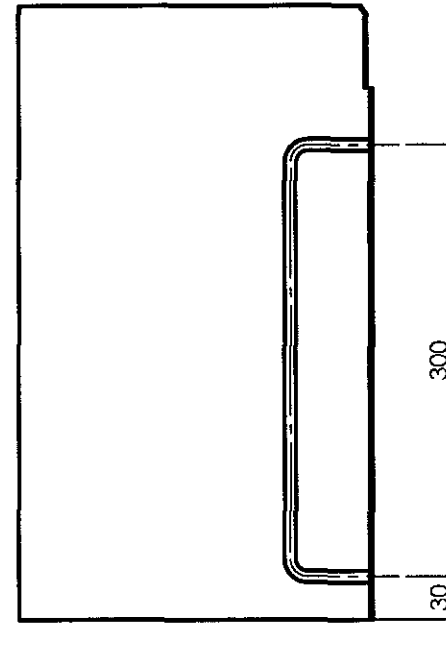
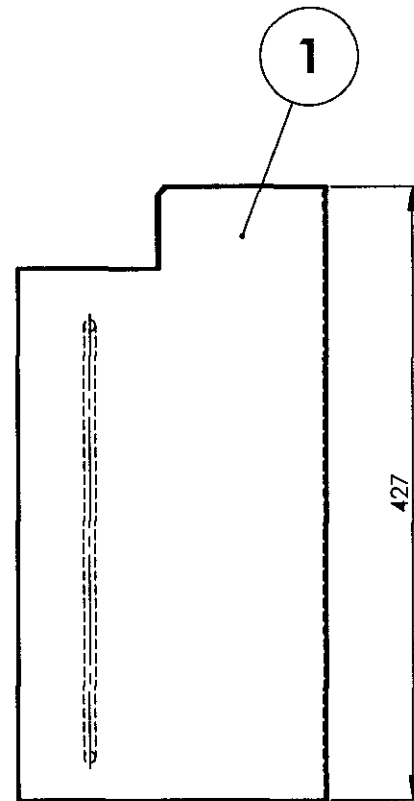
1	ELEC CABLE TIE ROD		2	AAB15177		0.16	
1	ELEC COUPLER COVER		1	AAD15725		2.59	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 End Construction		SURFACE AREA IN Sq.m.:			WT/ASSY IN Kgs:		
ELEC COUPLER COVER COMPLETE					SCALE	CHD	
					1:5	CHD	
					ALT	ALT	
						DRN	SURESH B
INDIAN RAILWAY STANDARDS						LWS/VA	
INTEGRAL COACH FACTORY CHENNAI 600038				SHEET 1 OF 1		97115004	A3

97115005

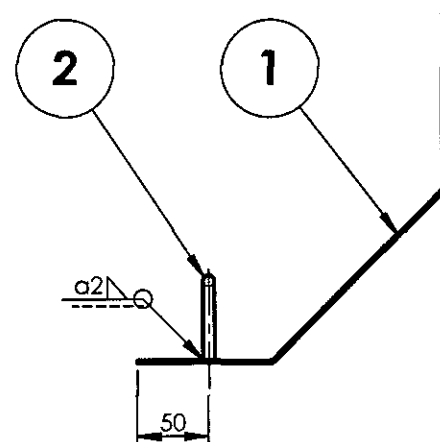
▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	①c CHAMFERED

REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
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**NOTE:-**

1. ALL WELDING SHALL BE OF TIG UNLESS OTHERWISE SPECIFIED.
2. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC. CK-201 SHALL BE USED FOR WELDING.
3. ALL WELDED JOINTS SPATTERS SHALL BE GROUND.
4. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
5. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
6. FOR WELD TESTING PREFERENCES REFER DRG. No. ICF/STD-9-0-998.
7. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.

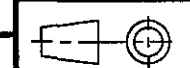


1	ELEC CABLE TIE ROD		2	AAB15177		0.16	
1	ELEC COUPLER COVER		1	AAD15726		2.57	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS

GROUP: 1-5 End Construction

SURFACE AREA IN Sq.m.:

WT/ASSY IN Kgs:

ELEC COUPLER COVER COMPLETESCALE
1:5SSE/D
CHDALT.
DRNALTD
MURUGAN P**LWS/VA**

INDIAN RAILWAY STANDARDS

INTEGRAL COACH FACTORY, CHENNAI - 600038

SHEET
1 OF 1**97115005****A3**

05-09-2023

DATE OF LATEST ALT.

DATE OF FIRST ISSUE

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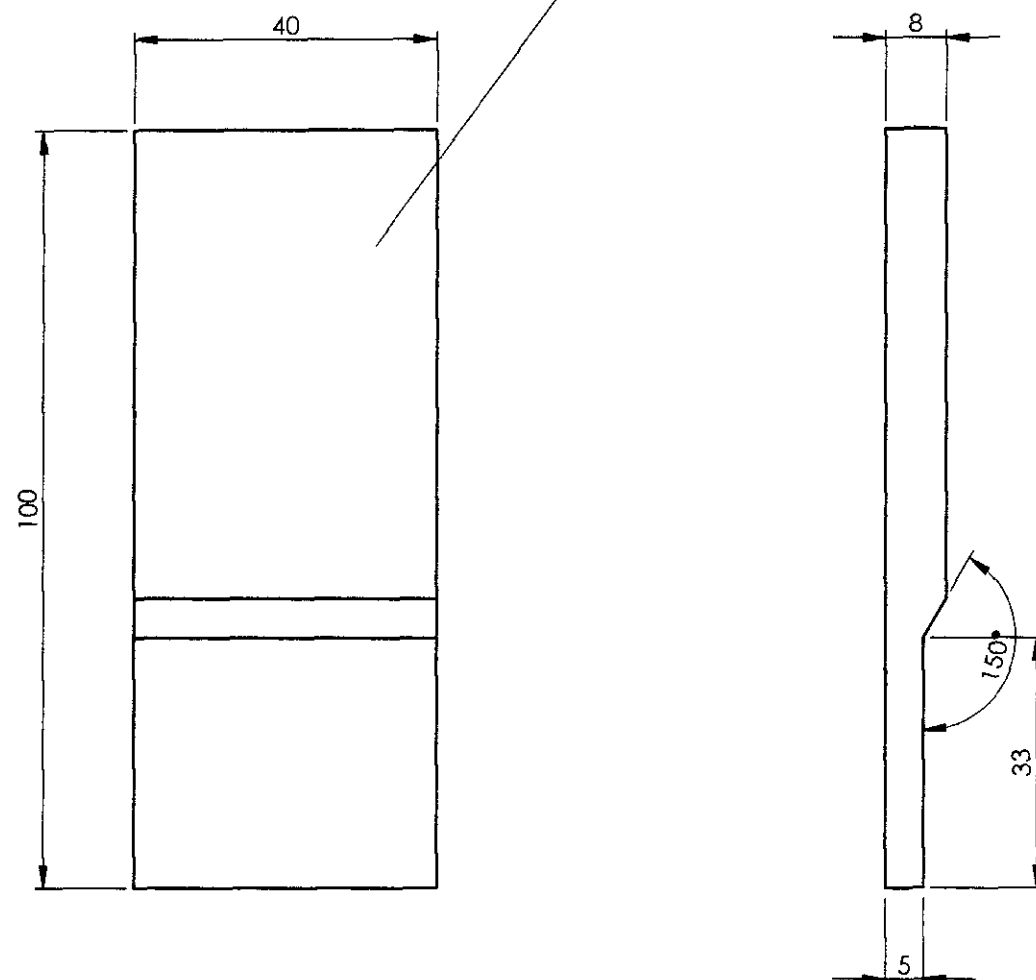
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER EN ISO 2553.
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

REF.DRG.NO.

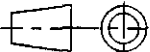
AAA10961

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	⑱ CHAMFERED

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		NOTE 1 ADDED	<i>[Signature]</i>

**NOTE:**

1. ALTERNATIVELY IS 6911 X04Cr19Ni9 (OR) ASTM A240 S30400 MAY BE USED IN LIEU OF RDSO/SPEC C-K201 X5 Cr Ni 18 10 FOR ITEM 1.

1	BRACKET	8x40x100	1		RDSO/SPEC C- K201 X5 Cr Ni 18 10	0.222	
Default	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-0		SURFACE AREA IN Sq.m.:0.010			WT/ASSY IN Kgs:0.222		
BRACKET					SCALE	SSE/D	<i>L Panduranga Rao</i>
					1:1	CHD	
					ALT.	ALTD	MAHESHBABU
					a	DRN	L.PANDURANGA RAO
INDIAN RAILWAY STANDARDS							
INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1	AAA10961		A3

REF.DRG.NO.3 10113.0.20.095.124

AAA10966

▽ ROUGH MACHINED	⊙ ROUGH CLEANED
▽▽ FINISH MACHINED	⊙ BURRS REMOVED
▽▽▽ FINISH VACUUM	⊙ CHAMFERED

REVISIONS

ALT.

ZONE

DESCRIPTION

APPROVED &
DATE

1

160

53

R6

85

3

25

9

43.5

15

43

15

1	BRACKET	3x132x160	1		RDSO/SPEC C- K201 X2CrNi12	0.497	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-0				SURFACE AREA IN Sq.m.:0.043		WT/ASSY IN Kgs:0.497	
BRACKET					SCALE	SSE/D	L.Panduranga Rao
					1:1	CHD	
					ALT.	ALTD	
						DRN	L.PANDURANGA RAO
INDIAN RAILWAY STANDARDS					SHEET 1 OF 1		
INTEGRAL COACH FACTORY, CHENNAI - 600038					AAA10966		
					A3		

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/SID 9 0 001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813:1986.

REF.DRG.NO.3 10113.0.20.095.159

DATE OF LATEST ALT.

10-04-2013

DATE OF FIRST ISSUE

AME/SME

10/4/13

1		2		3		4		5		6		7		8																																																																
AAA10969				▽ ROUGH MACHINED		⊖ ROUGH CLEANED		REVISIONS																																																																						
				▽▽ FINISH MACHINED		⊖⊖ BURRS REMOVED		ALT.		ZONE		DESCRIPTION			APPROVED & DATE																																																															
				▽▽▽ FINE FINISH MACHINED		⊖⊖⊖ CHAMFERED																																																																								
<div>ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS ALSO ROUGHNESS VALUES, REFER DRAWING NO IC/STD 9 0 001. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.</div> <div><div>1</div><div><div>8</div><div>40</div><div>40</div></div></div>																																																																														
<table><tr><td>1</td><td>BACK PIECE</td><td>8x40x40</td><td>1</td><td></td><td>RDSO/SPEC C-K201 X2CrNi12</td><td>0.102</td><td></td></tr><tr><td>QTY.</td><td>DESCRIPTION</td><td>DIMENSIONS</td><td>ITEM NO.</td><td>REF. DRGS</td><td>MATL.SPEC.</td><td>WT/UNIT IN KGS</td><td>REMARKS</td></tr><tr><td colspan="2">GROUP: 1-0</td><td colspan="3">SURFACE AREA IN Sq.m.:0.004</td><td colspan="3">WT/ASSY IN Kgs:0.102</td></tr><tr><td colspan="5" rowspan="4">FLAT</td><td>SCALE</td><td>SSE/D</td><td rowspan="2">L. Panduranga Rao</td></tr><tr><td>2:1</td><td>CHD</td></tr><tr><td>ALT.</td><td>ALTD</td><td rowspan="2">L.PANDURANGA RAO</td></tr><tr><td></td><td>DRN</td></tr><tr><td colspan="5">INDIAN RAILWAY STANDARDS</td><td colspan="2">SHEET 1 OF 1</td><td></td></tr><tr><td colspan="5">INTEGRAL COACH FACTORY, CHENNAI - 600038</td><td colspan="2"></td><td></td></tr><tr><td colspan="5"></td><td colspan="2">AAA10969</td><td>A3</td></tr></table>																1	BACK PIECE	8x40x40	1		RDSO/SPEC C-K201 X2CrNi12	0.102		QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS	GROUP: 1-0		SURFACE AREA IN Sq.m.:0.004			WT/ASSY IN Kgs:0.102			FLAT					SCALE	SSE/D	L. Panduranga Rao	2:1	CHD	ALT.	ALTD	L.PANDURANGA RAO		DRN	INDIAN RAILWAY STANDARDS					SHEET 1 OF 1			INTEGRAL COACH FACTORY, CHENNAI - 600038													AAA10969		A3
1	BACK PIECE	8x40x40	1		RDSO/SPEC C-K201 X2CrNi12	0.102																																																																								
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS																																																																							
GROUP: 1-0		SURFACE AREA IN Sq.m.:0.004			WT/ASSY IN Kgs:0.102																																																																									
FLAT					SCALE	SSE/D	L. Panduranga Rao																																																																							
					2:1	CHD																																																																								
					ALT.	ALTD	L.PANDURANGA RAO																																																																							
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INDIAN RAILWAY STANDARDS					SHEET 1 OF 1																																																																									
INTEGRAL COACH FACTORY, CHENNAI - 600038																																																																														
					AAA10969		A3																																																																							
REF.DRG.NO.LW10204; ITEM-17		10-04-2013		10/4/13																																																																										
DATE OF LATEST ALT.		DATE OF FIRST ISSUE		AME/SME																																																																										

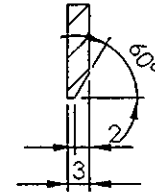
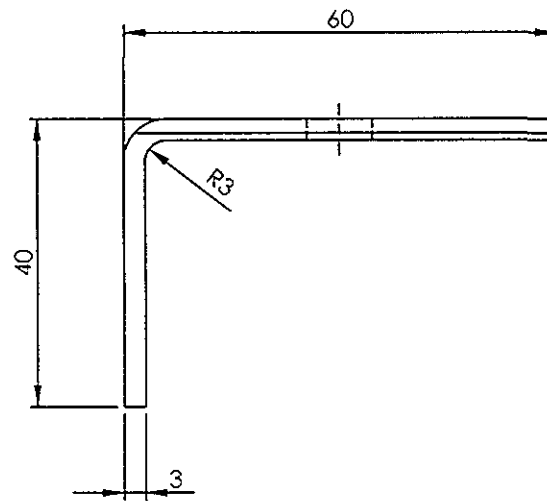
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AAA10971				▽ ROUGH MACHINED		⊖ ROUGH CLEANED		REVISIONS								
				▽ FINISH MACHINED		⊖ BURRS REMOVED		ALT.		ZONE		DESCRIPTION			APPROVED & DATE	
				▽▽ FINE FINISH MACHINED		⊖ CHAMFERED										
<div>ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICT/STD 9 0 001. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813 1986.</div> <div><div>25</div><div>25</div><div>5</div><div>1</div></div>																
1		2		3		4		5		6		7		8		
QTY.		DESCRIPTION		DIMENSIONS		ITEM NO.		REF. DRGS		MATL.SPEC.		WT/UNIT IN KGS		REMARKS		
GROUP: 1-0				SURFACE AREA IN Sq.m.:0.002						WT/ASSY IN Kgs:0.025						
FLAT										SCALE 1:1		SSE/D CHD		L.PANDURANGA RAO		
										ALT.		ALTD				
										DRN						
INDIAN RAILWAY STANDARDS										SHEET 1 OF 1		AAA10971		A3		
INTEGRAL COACH FACTORY, CHENNAI - 600038																
DATE OF LATEST ALT.		DATE OF FIRST ISSUE		AME/SME												
10-04-2013		10-04-2013		10-04-2013												

1		2		3		4		5		6		7		8	
AAA10972				▽ ROUGH MACHINED		① ROUGH CLEANED		REVISIONS							
				▽▽ FINISH MACHINED		② BURRS REMOVED		ALT.		ZONE		DESCRIPTION		APPROVED & DATE	
				▽▽▽ - 12 - 12 - VAC - 12		③ CHAMFERED		a				MATERIAL SPECIFICATION REVISED		23/01/22	
A															
B															
C															
D															
E															
F															
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD 9 0 001 ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.															
REF.DRG.NO.4 10113.0.20.095.138															
25-08-2022 10-04-2013															
DATE OF LATEST ALT DATE OF FIRST ISSUE AME/SME															
GROUP: 1-0 Body Shell SURFACE AREA IN Sq.m.:0.004 WT/ASSY IN Kgs:0.084															
Default DESCRIPTION DIMENSIONS ITEM NO. REF. DRGS MATL.SPEC. WT/UNIT IN KGS REMARKS															
GROUNDING FLAP 8x30x45 1															
SCALE 2:1 SSE/D CHD R. Panduranga Rao															
ALT. a ALTD RAVI															
DRN L. PANDURANGA RAO															
INDIAN RAILWAY STANDARDS															
INTEGRAL COACH FACTORY, CHENNAI - 600038															
SHEET 1 OF 1															
AAA10972 A3															
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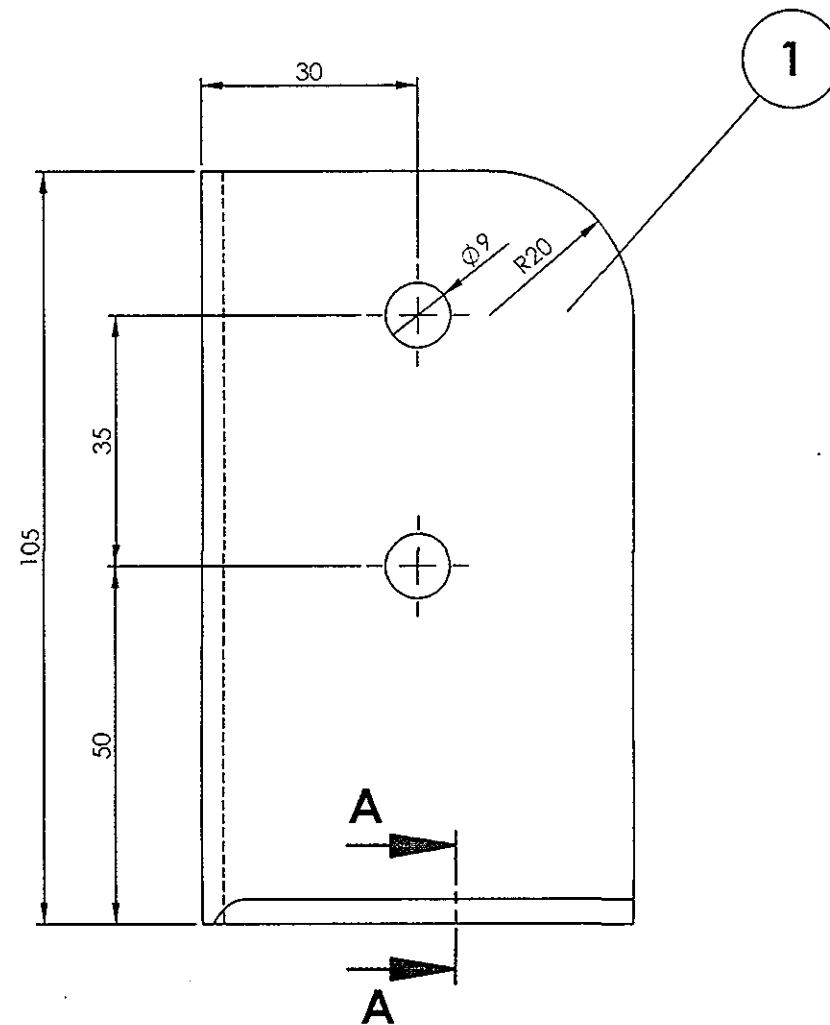
AAA10973

▽ ROUGH MACHINED	⊖ ROUGH CLEANED
▽▽ FINISH MACHINED	⊖⊖ BURRS REMOVED
▽▽▽ FINISH VACUUMED	⊖⊖⊖ CHAMFERED

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



SECTION A-A



ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICI/SHD 90001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.

REF.DRG.NO.3 10113.0.20.095.136

	10-04-2013	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

1	ANGLE	3x94x105	1		RDSO/SPEC C-K201 X2CrNi12	0.233	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-0		SURFACE AREA IN Sq.m.:0.021			WT/ASSY IN Kgs:0.233		
ANGLE					SCALE	SSE/D	
					1:1	CHD	
					ALT.	ALTD	
						DRN	L.PANDURANGA RAO
INDIAN RAILWAY STANDARDS							
INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1	AAA10973		A3

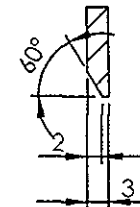
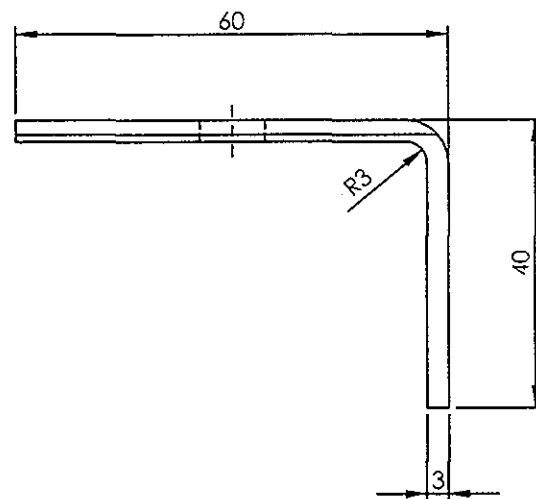
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AAA10974				▽ ROUGH MACHINED		③ ROUGH CLEANED		REVISIONS																																																																																			
				▽▽ FINISH MACHINED		④ BURRS REMOVED		ALT.		ZONE		DESCRIPTION			APPROVED & DATE																																																																												
				▽▽▽ FINE FINISH MACHINED		⑤ CHAMFERED																																																																																					
<div>ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICT/SID 9 0 001. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813:1986.</div> <div></div>																																																																																											
<table><tr><td>1</td><td>WEB</td><td>3x32x52</td><td>1</td><td></td><td>RDSO/SPEC C-K201 X2CrNi12</td><td>0.024</td><td></td></tr><tr><td>QTY.</td><td>DESCRIPTION</td><td>DIMENSIONS</td><td>ITEM NO.</td><td>REF. DRGS</td><td>MATL.SPEC.</td><td>WT/UNIT IN KGS</td><td>REMARKS</td></tr><tr><td colspan="2">GROUP: 1-0</td><td colspan="2">SURFACE AREA IN Sq.m.:0.002</td><td colspan="4">WT/ASSY IN Kgs:0.024</td></tr><tr><td colspan="5" rowspan="3">WEB</td><td>SCALE</td><td>SSE/D</td><td rowspan="2"><i>L. Panduranga Rao</i></td></tr><tr><td>1:1</td><td>CHD</td></tr><tr><td>ALT.</td><td>ALTD</td><td></td></tr><tr><td colspan="5"></td><td>DRN</td><td>L.PANDURANGA RAO</td></tr><tr><td colspan="5">INDIAN RAILWAY STANDARDS</td><td colspan="2">SHEET 1 OF 1</td><td></td></tr><tr><td colspan="5">INTEGRAL COACH FACTORY, CHENNAI - 600038</td><td colspan="2"></td><td></td></tr><tr><td colspan="2">REF.DRG.NO.4 10113.0.20.095.135</td><td>10-04-2013</td><td><i>L. Panduranga Rao</i></td><td colspan="2">AAA10974</td><td colspan="2">A3</td></tr><tr><td>DATE OF LATEST ALT.</td><td>DATE OF FIRST ISSUE</td><td colspan="2">AME/SME</td><td colspan="4"></td></tr></table>																1	WEB	3x32x52	1		RDSO/SPEC C-K201 X2CrNi12	0.024		QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS	GROUP: 1-0		SURFACE AREA IN Sq.m.:0.002		WT/ASSY IN Kgs:0.024				WEB					SCALE	SSE/D	<i>L. Panduranga Rao</i>	1:1	CHD	ALT.	ALTD							DRN	L.PANDURANGA RAO	INDIAN RAILWAY STANDARDS					SHEET 1 OF 1			INTEGRAL COACH FACTORY, CHENNAI - 600038								REF.DRG.NO.4 10113.0.20.095.135		10-04-2013	<i>L. Panduranga Rao</i>	AAA10974		A3		DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME					
1	WEB	3x32x52	1		RDSO/SPEC C-K201 X2CrNi12	0.024																																																																																					
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS																																																																																				
GROUP: 1-0		SURFACE AREA IN Sq.m.:0.002		WT/ASSY IN Kgs:0.024																																																																																							
WEB					SCALE	SSE/D	<i>L. Panduranga Rao</i>																																																																																				
					1:1	CHD																																																																																					
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INTEGRAL COACH FACTORY, CHENNAI - 600038																																																																																											
REF.DRG.NO.4 10113.0.20.095.135		10-04-2013	<i>L. Panduranga Rao</i>	AAA10974		A3																																																																																					
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME																																																																																									
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AAA10975

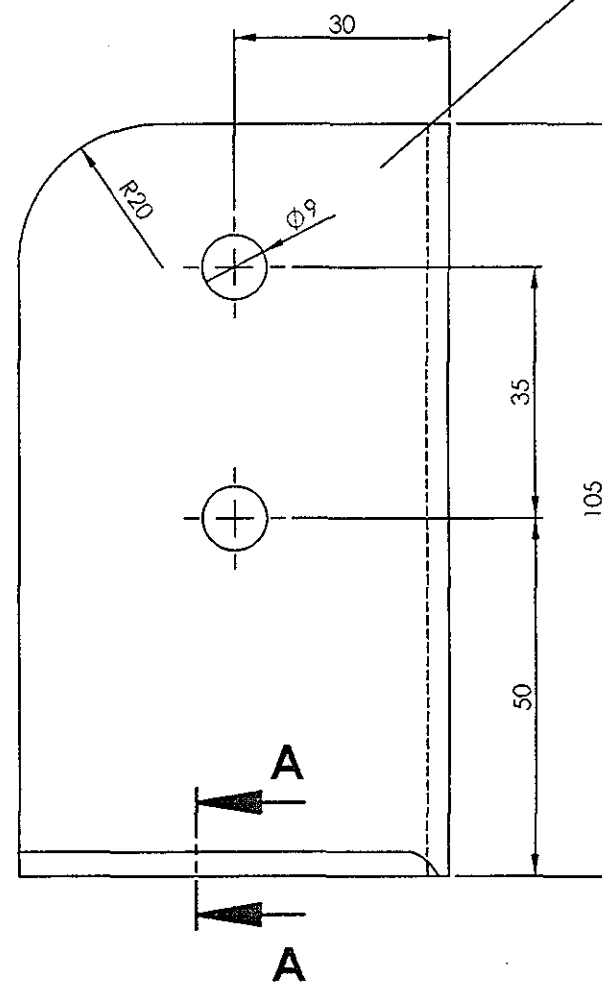
▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	② BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	③ CHAMFERED

REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
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SECTION A-A



1	ANGLE	3x94x105	1		RDSO/SPEC C-K201 X2CrNi12	0.233	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-0		SURFACE AREA IN Sq.m.:0.021			WT/ASSY IN Kgs:0.233		
ANGLE					SCALE	SSE/D	<i>Indrapal ad</i>
					1:1	CHD	
					ALT.	ALTD	
						DRN	L.PANDURANGA RAO
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1			
					AAA10975		A3

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/SID 9 0 001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813 1986.

REF.DRG.NO.3 10113.0.20.095.134

AAA15180

▽ ROUGH MACHINED

⊙ ROUGH CLEANED

▽▽ FINISH MACHINED

⊙⊙ BURRS REMOVED

▽▽▽ FINE FINISH MACHINED

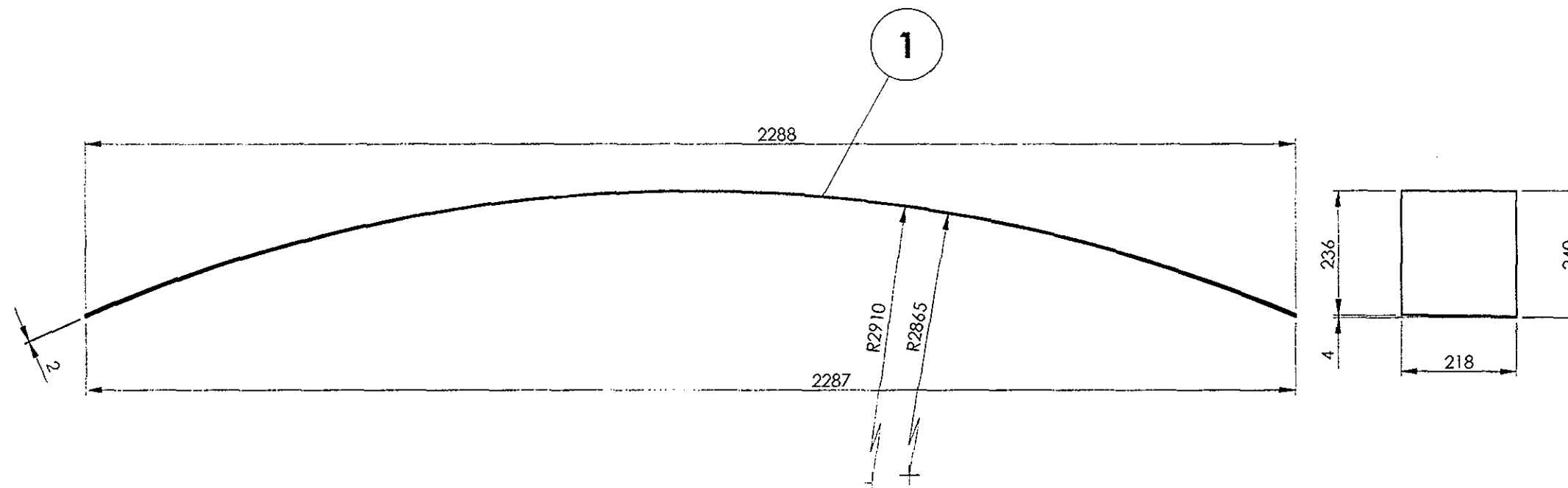
⊙⊙⊙ CHAMFERED

REVISIONS

ALT.

ZONE

DESCRIPTION

APPROVED &
DATE

1	COVERING SHEET	2x218x2353	1		RDSO/SPEC C- K201 X2CrNi12	8.203	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5				SURFACE AREA IN Sq.m.:1035418.877 WT/ASSY IN Kgs:8.203			
COVERING SHEET					SCALE	SSE/D	
					1:20	CHD	
					ALT.	ALTD	
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038					DRN	D.MOSES & T J K VELU	
SHEET 1 OF 1					AAA15180		
DATE OF LATEST ALT.					A3		

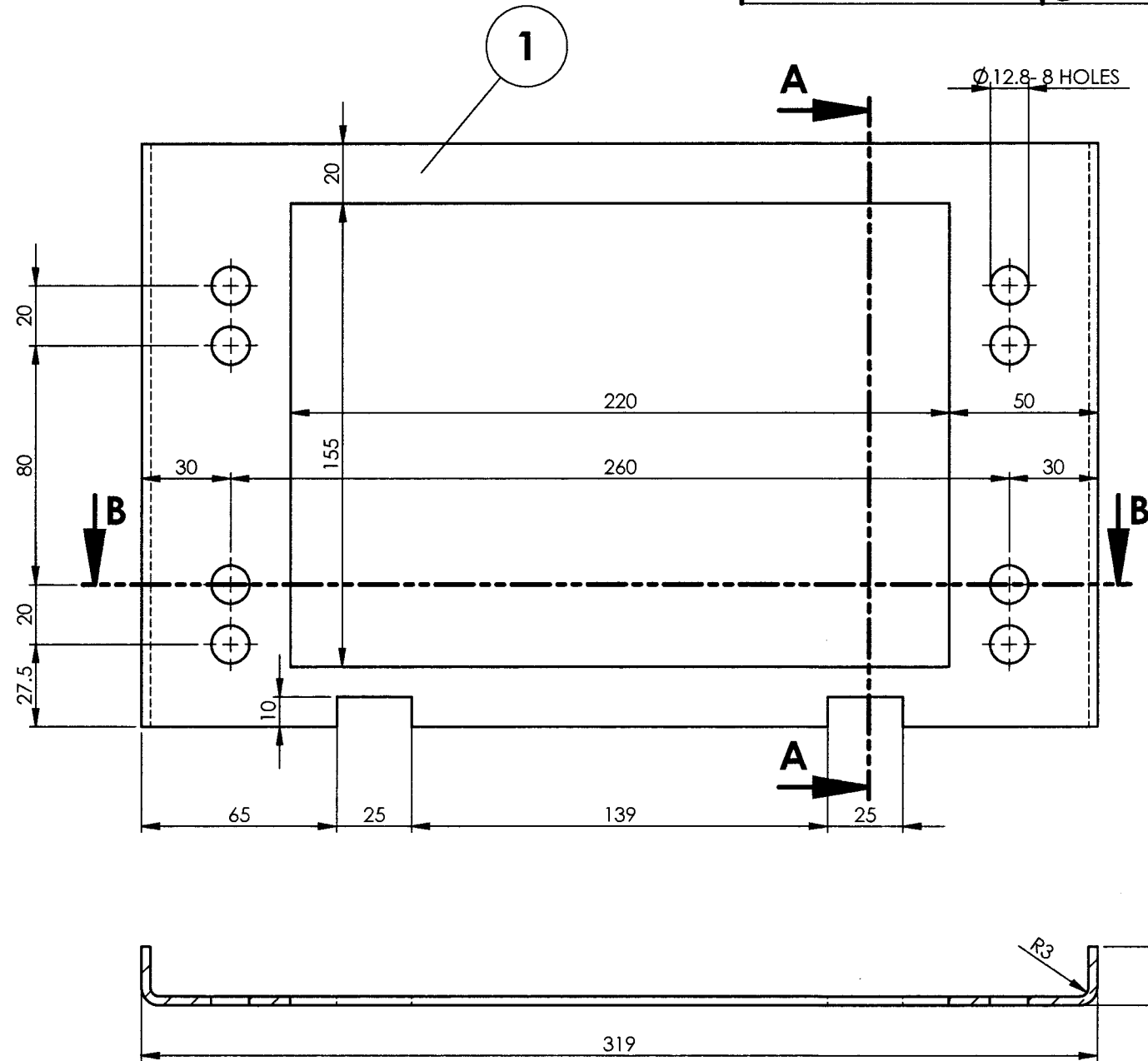
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.

REF.DRG.NO.

AAA15181

▽ ROUGH MACHINED	01 ROUGH CLEANED
▽▽ FINISH MACHINED	01b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	18 CHAMFERED

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATERAIL SPEC UPDATED	-sd-
b		HOLE CENTRE TO CENTRE LOCATING DIMENSION ADDED.	-sd-
c		DIMENSION FOR CUTAWAYS ADDED.	<i>sd</i>



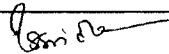
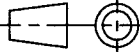

SECTION A-A

SECTION B-B

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY


REF.DRG.NO.

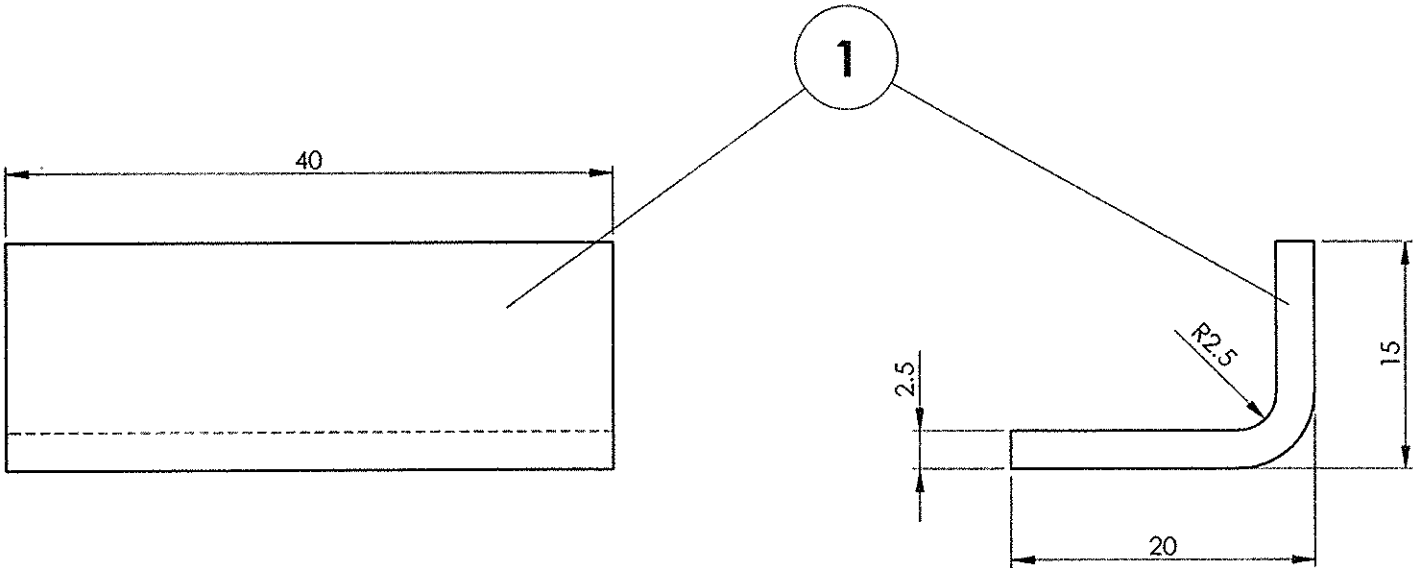
02-09-2021	24-12-2009	<i>sd</i>
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

1	BRACKET	3x195x348.5	1		RDSO/SPEC C-K201 X2CrNi12	0.776				
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS			
GROUP: 1-5		SURFACE AREA IN Sq.m.:0.071			WT/ASSY IN Kgs:					
BRACKET					SCALE	SSE/D				
					1:2	CHD				
					ALT. c	ALTD	MURUGAN P			
						DRN	D.MOSES			
										
INDIAN RAILWAY STANDARDS				SHEET		AAA15181	A3			
INTEGRAL COACH FACTORY, CHENNAI - 600038				1 OF 1						

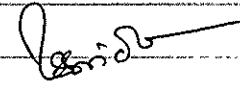
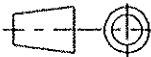
AAA15193

▽ ROUGH MACHINED	⊖ ROUGH CLEANED
▽▽ FINISH MACHINED	⊖⊖ BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	⊖⊖⊖ CHAMFERED

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		R.M.SIZE ALTD. FROM 2.5x35.2x40 TO 2.5x30x40 AND MATERIAL SPEC. ALTD. FROM SS-409M TO RDSO/SPEC. C-K201 X2CrNi12	 3/15



ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS REFER DRAWING NO ICF/STD-9-Q-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.

1	STOP	2.5x30x40	1		RDSO/SPEC C-K201 X2CrNi12	0.025					
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS				
GROUP: 1-5		SURFACE AREA IN Sq.m.:0.003			WT/ASSY IN Kgs:0.028						
STOP					SCALE 2:1	SSE/D CHD					
					ALT. a	ALTD DRN		B.SARAVANAN D.MOSES & T J K VELU.			
					INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038						
				SHEET 1 OF 1	AAA15193		A3				

AAA15197

▽ ROUGH MACHINED
▽▽ FINISH MACHINED
▽▽▽ FINE FINISH MACHINED

① ROUGH CLEANED
①① BURRS REMOVED
①① CHAMFERED

REVISIONS

ALT.

ZONE

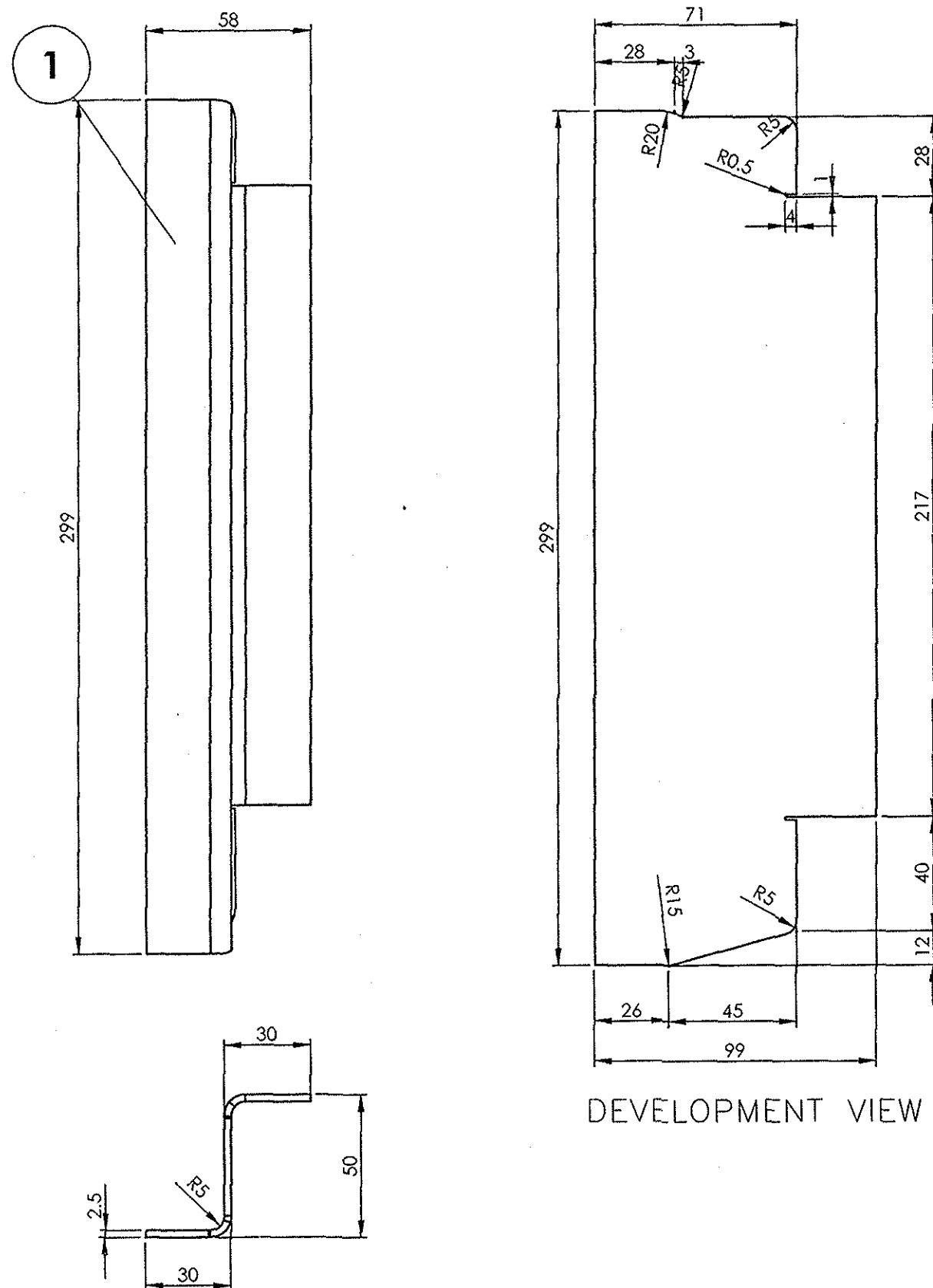
DESCRIPTION

APPROVED &
DATE



a

MATERIAL SPEC REVISED.

A 19/



DEVELOPMENT VIEW

1	WEB	2.5x99x299	1		RDSO/SPEC C-K201 X2CrNi12	0.545	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5		SURFACE AREA IN Sq.m.:0.056			WT/ASSY IN Kgs:0.539		
WEB					SCALE	SSE/D	
					1:2	CHD	
					ALT.	ALTD	M.S.NETHAJI
					a	DRN	D.MOSES & T J K VELU
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1			
INTEGRAL COACH FACTORY, CHENNAI - 600038					AAA15197	A3	

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS REFER DRAWING NO ICF/STD-9-0-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.

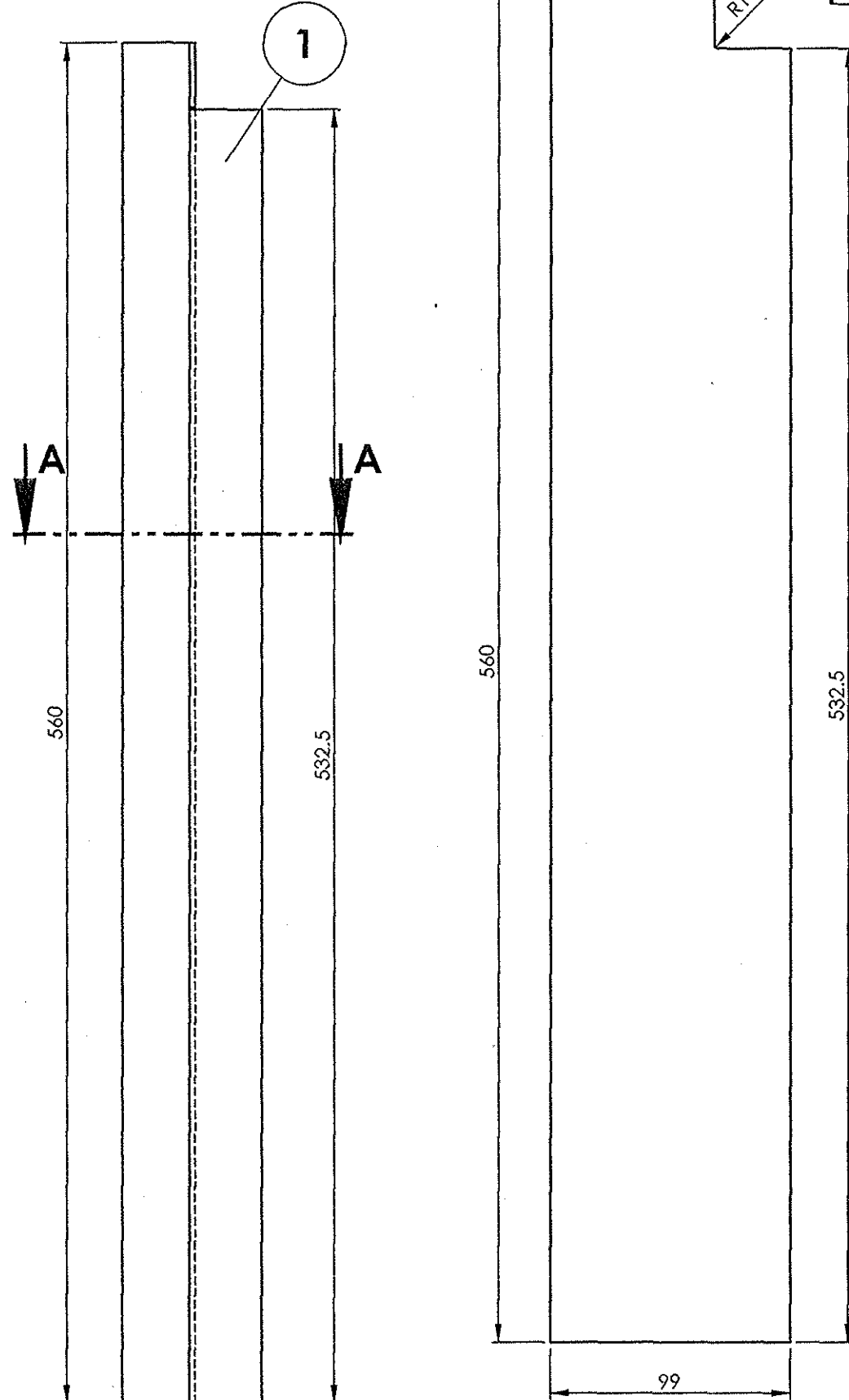
AAA15198

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	② BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	③ CHAMFERED

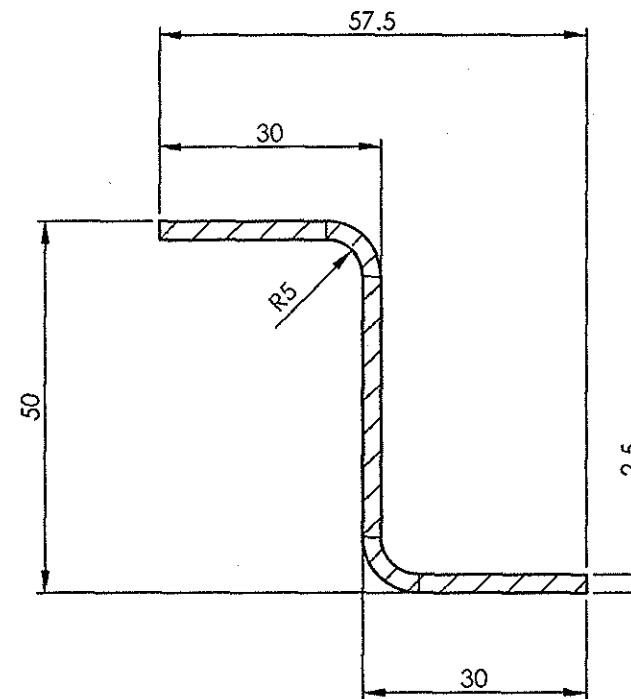
REVISIONS


ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATERIAL SPEC REVISED.	19/1

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS REFER DRAWING NO ICF/STD-9-0-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.



DEVELOPED VIEW

SECTION A-A
SCALE 1 : 1

1	FLANGE	2.5x99x560	1		RDSO/SPEC C-K201 X2CrNi12	1.099	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5		SURFACE AREA IN Sq.m.:0.113			WT/ASSY IN Kgs: 1.093		
FLANGE					SCALE	SSE/D	<i>Revised</i>
					1:2.5	CHD	
					ALT.	ALTD	M.S.NETHAJI
					a	DRN	D.MOSES & T J K VELU
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1			A3
INTEGRAL COACH FACTORY, CHENNAI - 600038							

AAA15199

▽ ROUGH MACHINED

① ROUGH CLEANED

▽▽ FINISH MACHINED

①b BURRS REMOVED

▽▽▽ FINE FINISH MACHINED

①8 CHAMFERED

REVISIONS

ALT.

ZONE

DESCRIPTION

APPROVED &
DATE

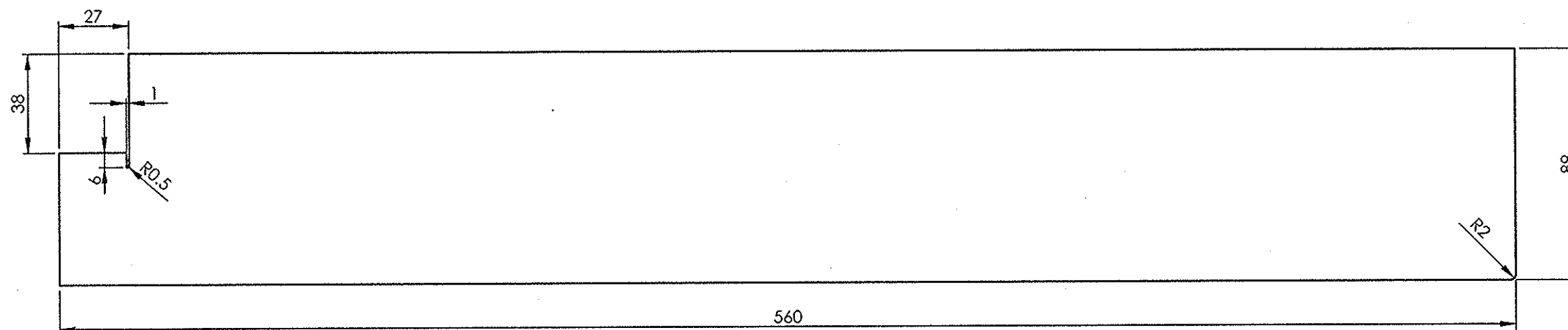
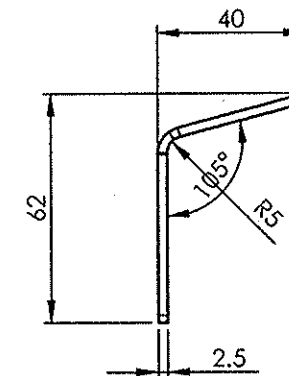
a

MATERIAL SPEC REVISED.

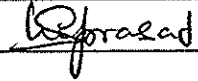

11/1

1

558



DEVELOPED VIEW

1	FLANGE	2.5x89x560	1		RDSO/SPEC C-K201 X2CrNi12	0.976	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5		SURFACE AREA IN Sq.m.:0.101			WT/ASSY IN Kgs:0.978		
FLANGE					SCALE	SSE/D	
					1:2	CHD	
					ALT.	ALTD	M.S.NETHAJI
					a	DRN	D.MOSES & T J K VELU
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038							
					SHEET 1 OF 1		AAA15199

19-02-2016

26-02-2010

SME

DATE OF LATEST ALT.

DATE OF FIRST ISSUE

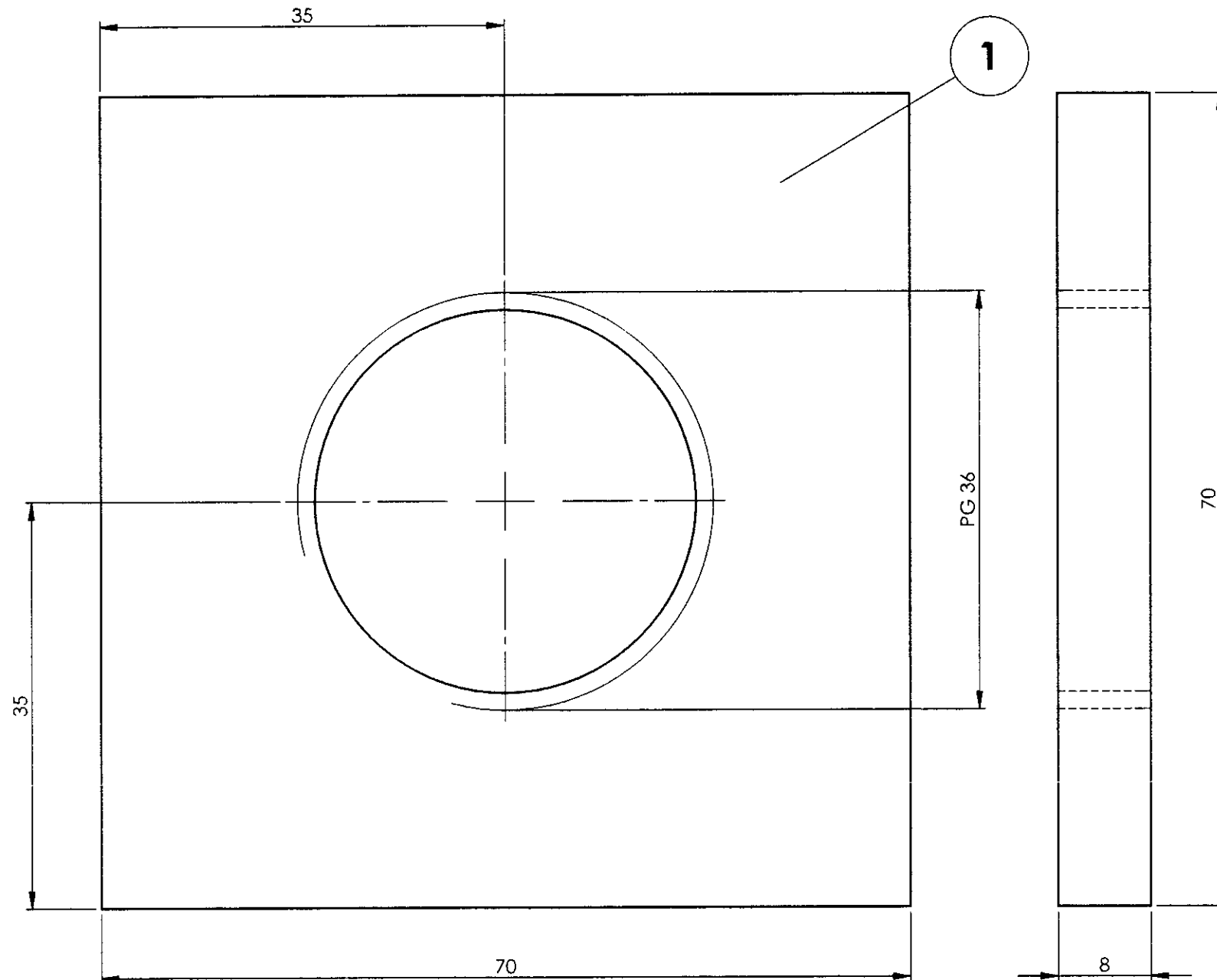
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS REFER DRAWING NO ICF/STD-9-0-001. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.

AAA15203

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	①B CHAMFERED

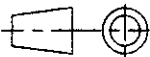
REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATERIAL SPEC. ALTD. FROM SS-409M TO RDSO/SPEC. C-K201 X2CrNi12	
b		TAPPED HOLE SIZE CORRECTED FROM M36X3.0 T PG 36 AND MATERIAL SPEC. REVISED FROM RDSO/SPEC.C-K201 X2 CrNi12 TO RDSO/SPEC C-K201 X5 CrNi1810	
c		NOTE 1 ADDED	✓ 04/7/23



NOTE:

1. ALTERNATIVELY IS 6911 X04Cr19Ni9 (OR) ASTM A240 S30400 MAY BE USED IN LIEU OF RDSO/SPEC C-K201 X5Cr Ni 18 10 FOR ITEM 1.

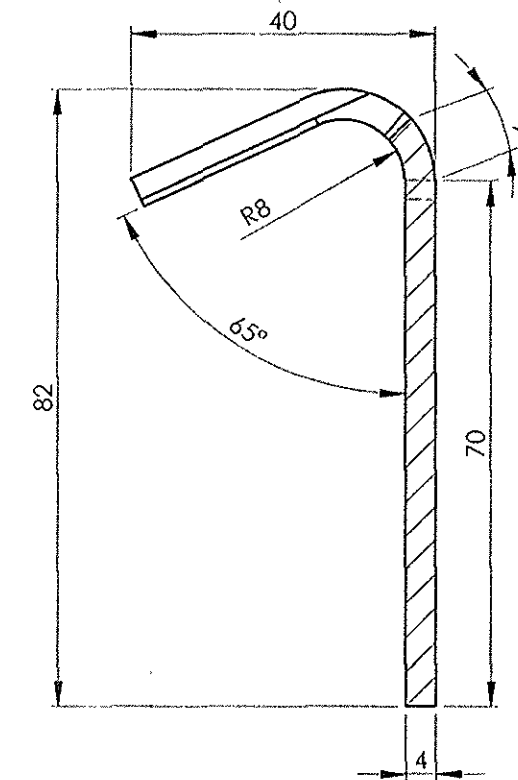
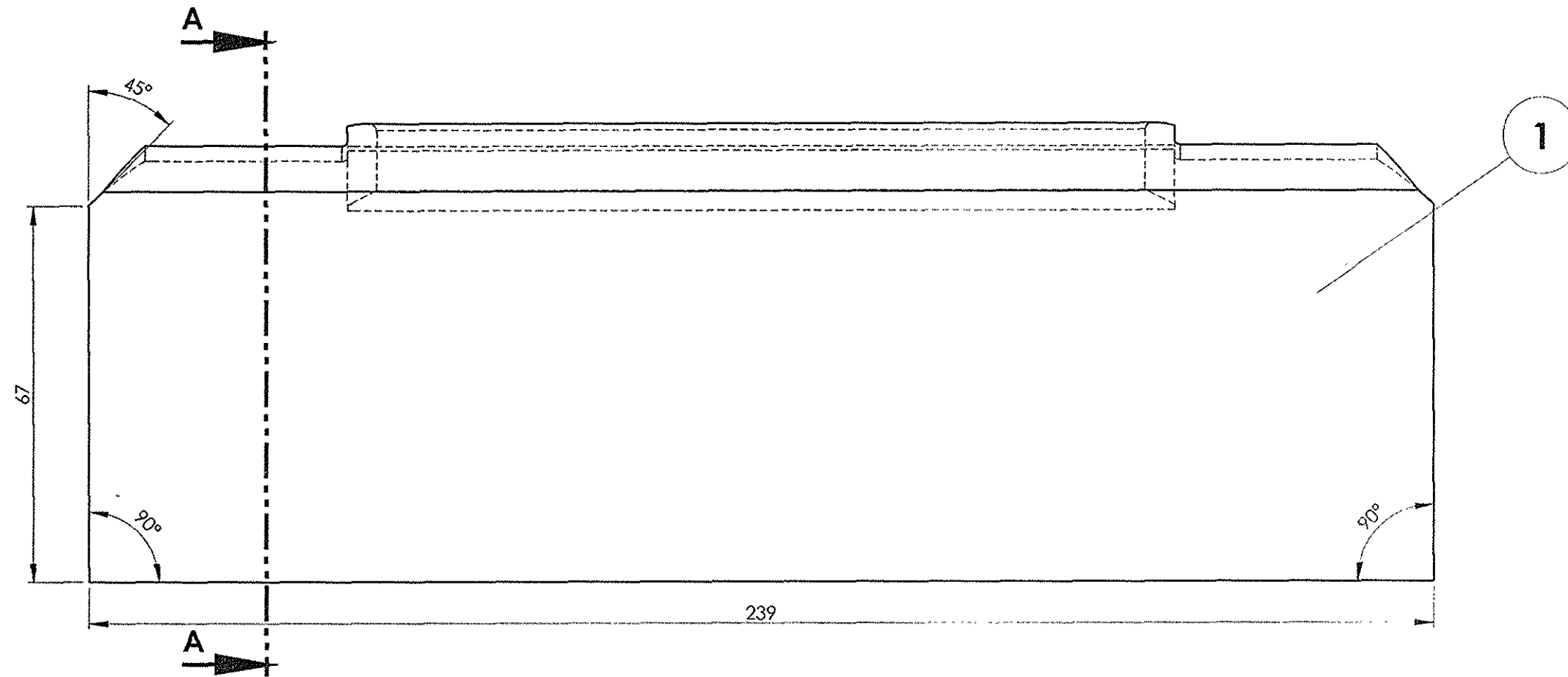
1	PLATE	8x70x70	1		RDSO SPEC C- K201 X5 Cr Ni 18 10	0.212	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5		SURFACE AREA IN Sq.m.:0.011			WT/ASSY IN Kgs:0.259		
PLATE					SCALE	SSE/D	<i>L. Panduranga R</i>
					2:1	CHD	
					ALT.	ALTD	MAHESHBABU
					c	DRN	D.MOSES & T J K VELU
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1			
					AAA15203		A3

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001 ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.

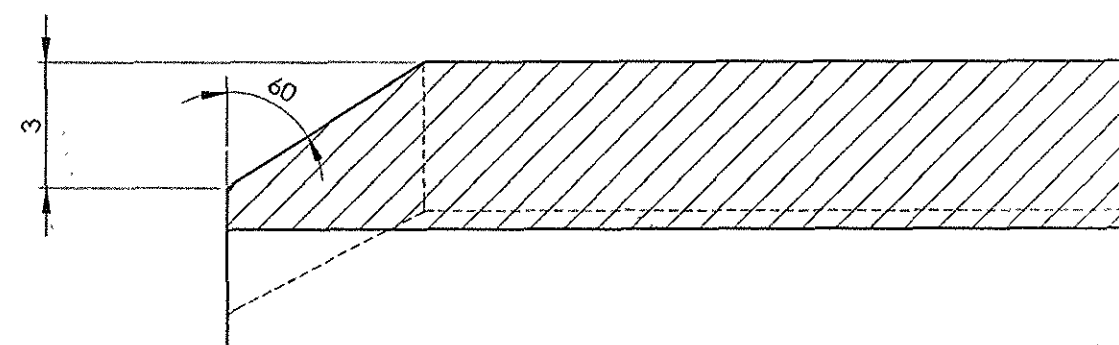
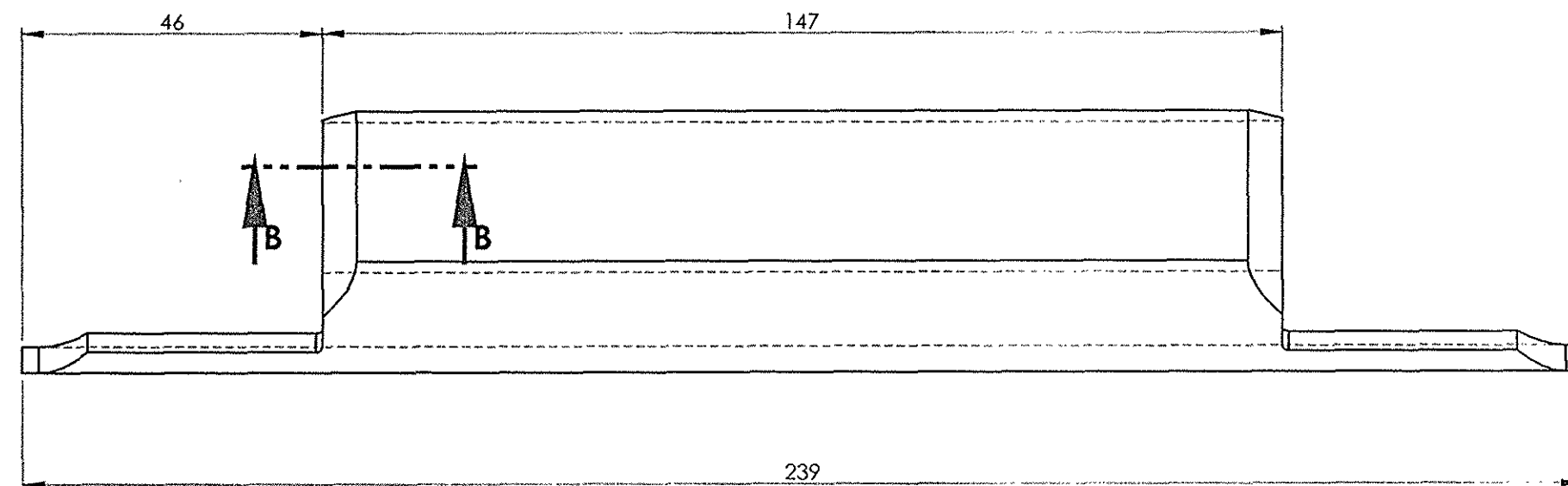
REF.DRG.NO.

AAA15205

7		8		9		10		11	
▽ ROUGH MACHINED		① ROUGH CLEANED		REVISIONS					
▽▽ FINISH MACHINED		② BURRS REMOVED		ALT.	ZONE	DESCRIPTION		APPROVED & DATE	
▽▽▽ FINE FINISH MACHINED		③ CHAMFERED		a		MATERIAL SPEC. ALTD. FROM SS-409M TO RDSO/SPEC. C-K201 X2CrNi12		30/06	



SECTION A-A

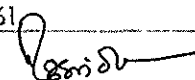



SECTION B-B
SCALE 5 : 1

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS:813-1986.


REF.DRG.NO.

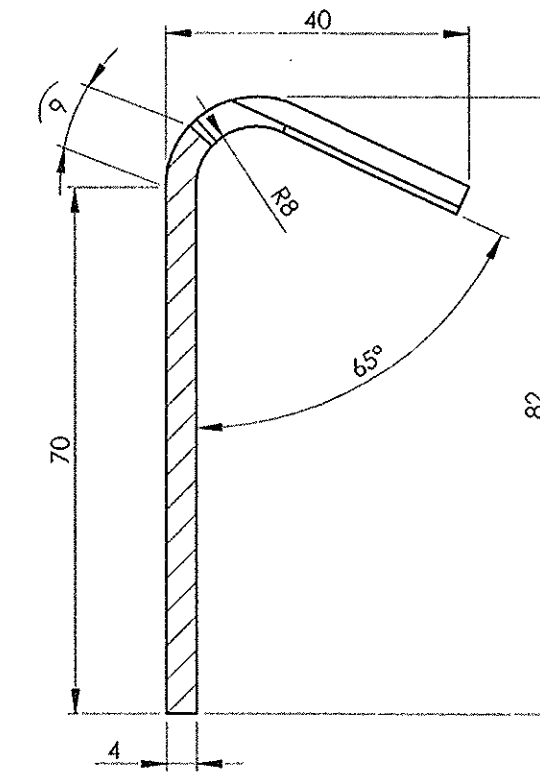
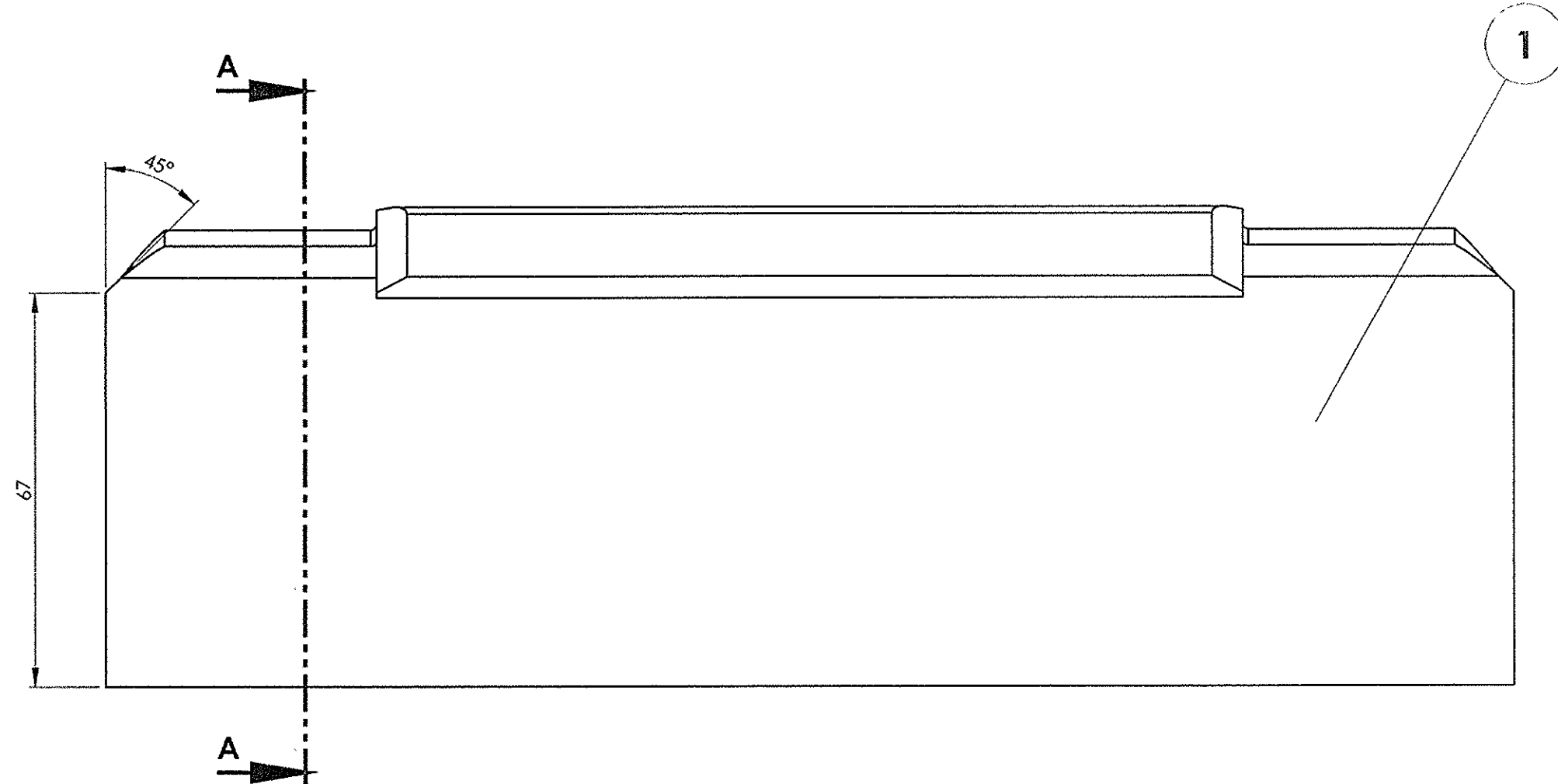
-05-2013	24-12-2009	AME/SME
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	

1	REINFORCEMENT	4x115.3x239	1		RDSO/SPEC C-K201 X2CrNi12	0.761	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5			SURFACE AREA IN Sq.m.: 0.050			WT/ASSY IN Kgs: 0.761	
REINFORCEMENT					SCALE 1:1	SSE/D	
						CHD	
					ALT a	ALTD	B.SARAVANAN
	DRN	D.MOSES & T J K VELU					
INDIAN RAILWAY STANDARDS							
INTEGRAL COACH FACTORY, CHENNAI - 600038					SHEET 1 OF 1	AAA15205	A2

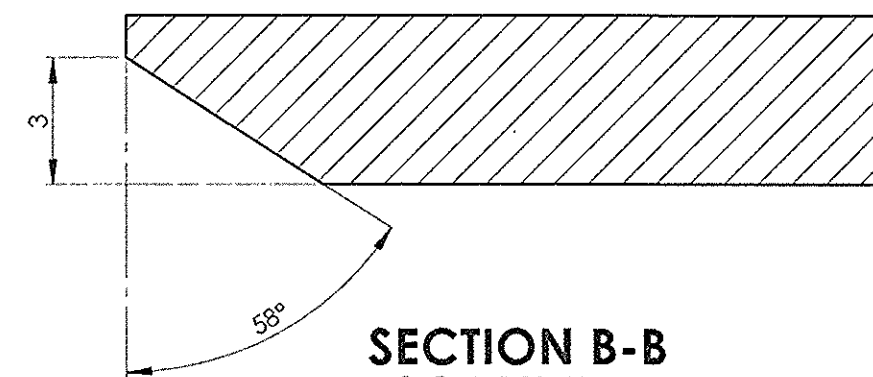
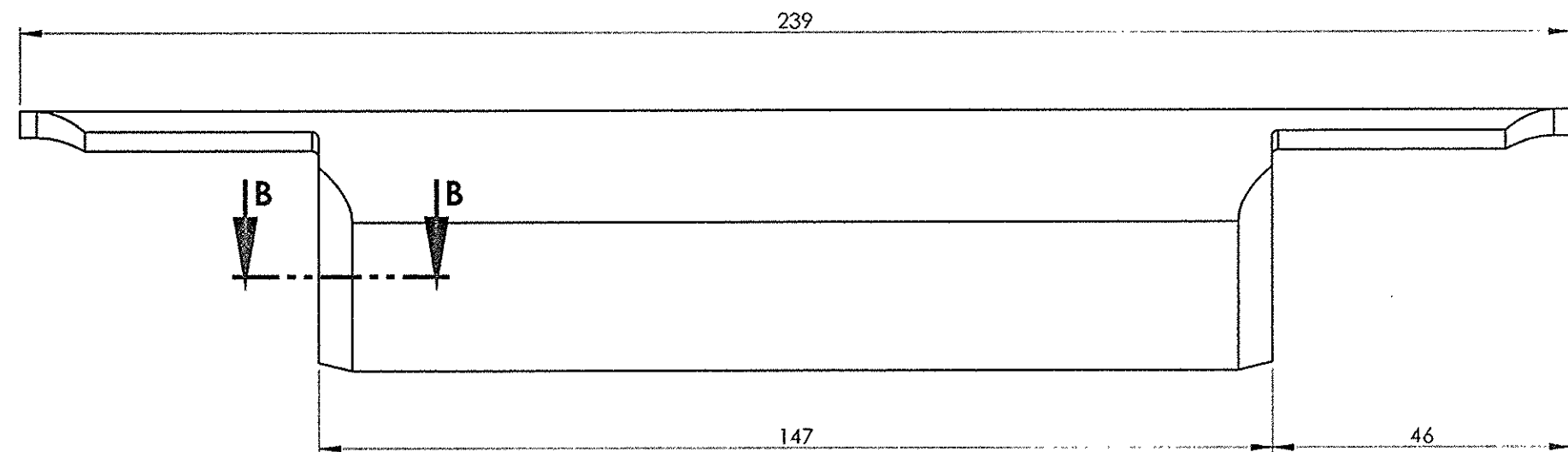
AAA15206

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	② BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	③ CHAMFERED

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATERIAL SPEC. ALTD. FROM SS-409M TO RDSO/SPEC. C-K201 X2CrNi12	

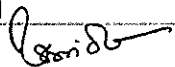
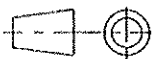


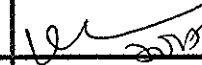
SECTION A-A



SECTION B-B
SCALE 5 : 1

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO. ICF/STD-9-0-001. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS:813-1986.

1	REINFORCEMENT	4x115.3x239	1		RDSO/SPEC C-K201 X2CrNi12	0.761		
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS	
GROUP: 1-5		SURFACE AREA IN Sq.m.: 0.050			WT/ASSY IN Kgs: 0.761			
REINFORCEMENT					SCALE 1:1	SSE/D		
						CHD		
					ALTA	ALTD	B.SARAVANAN	
						DRN	D.MOSES	
INDIAN RAILWAY STANDARDS								
INTEGRAL COACH FACTORY, CHENNAI - 600038					SHEET 1 OF 1	AAA15206		
						A2		

-05-2013	24-12-2009	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

REF.DRG.NO.

AAA15208

▽ ROUGH MACHINED

▽▽ FINISH MACHINED

▽▽▽ FINE FINISH MACHINED

⊖ ROUGH CLEANED

⊖ BURRS REMOVED

⊖ CHAMFERED

REVISIONS

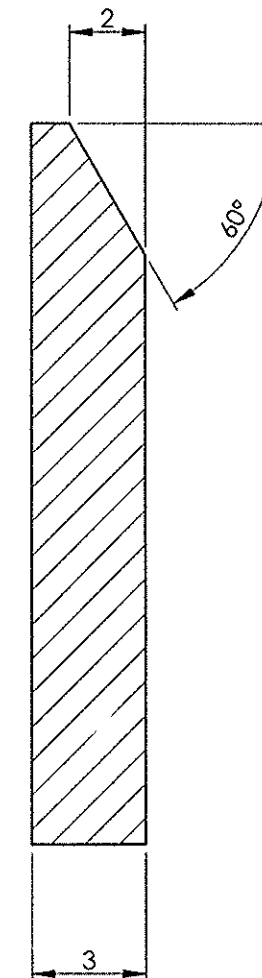
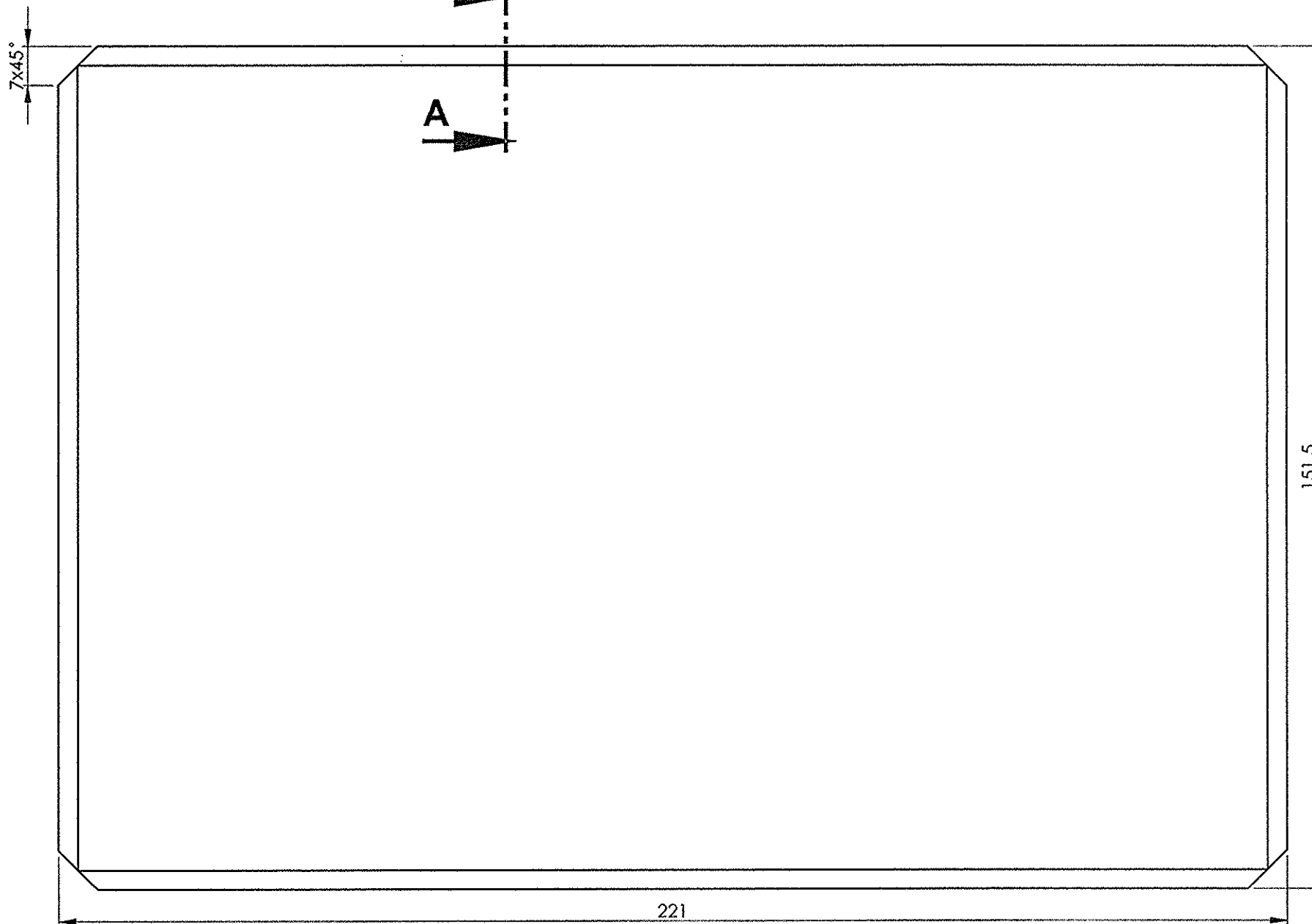
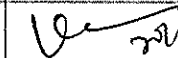
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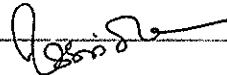
ZONE

DESCRIPTION

APPROVED &
DATE

a

MATERIAL SPEC. ALTD. FROM SS-409M TO
RDSO/SPEC. C-K201 X2CrNi12SECTION A-A
SCALE 5 : 1

1	WEB	3x151.5x221	1		RDSO/SPEC C-K201 X2CrNi12	0.782	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5		SURFACE AREA IN Sq.m.:0.068			WT/ASSY IN Kgs:0.782		
WEB					SCALE 1:1	SSE/D CHD	
					ALT. a	ALTD DRN	
					INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038		
SHEET 1 OF 1		AAA15208	A3				

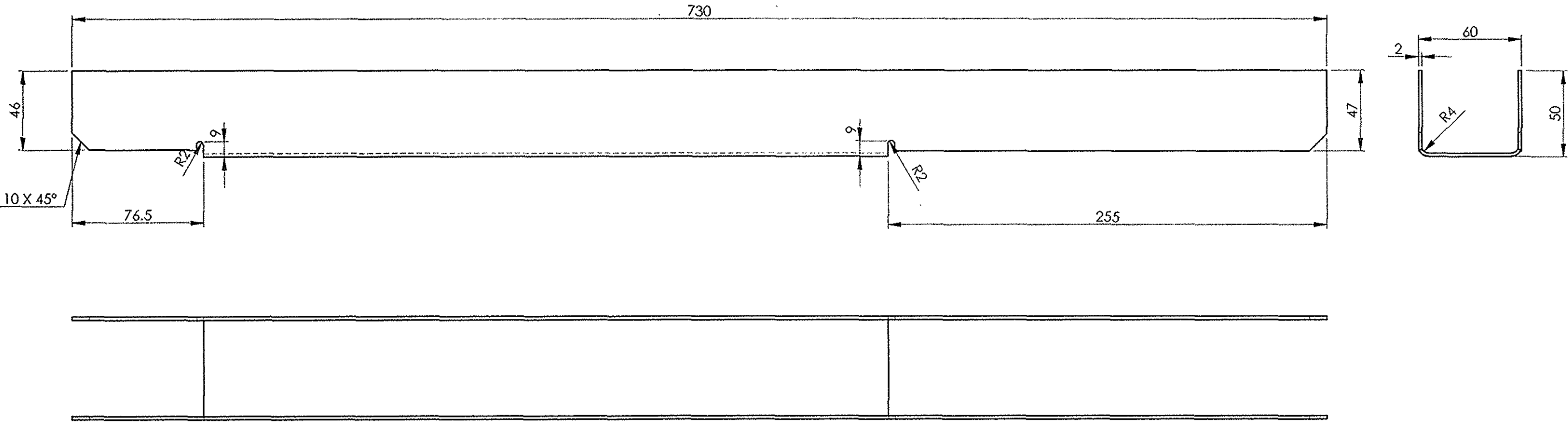
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.

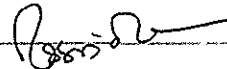
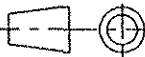
REF.DRG.NO.

AAA15210

▽ ROUGH MACHINED	⊖ ROUGH CLEANED
▽▽ FINISH MACHINED	⊖⊖ BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	⊖⊖⊖ CHAMFERED

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		DESIGN REVISED & DRAWING REDRAWN.	<i>[Signature]</i> 30/11



1	REINFORCEMENT	2x152x730	1		RDSO/SPEC C-K201 X2CrNi12	1.458	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5		SURFACE AREA IN Sq.m.:0.187			WT/ASSY IN Kgs:1.458		
REINFORCEMENT					SCALE	SSE/D	
					1:5	CHD	
					ALT. a	ALTD	T.J.Kumaravelu
						DRN	D.MOSES & TJ K VELU
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1			
					AAA15210		A3

-05-2013	26-02-2010	<i>[Signature]</i> 30/11
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

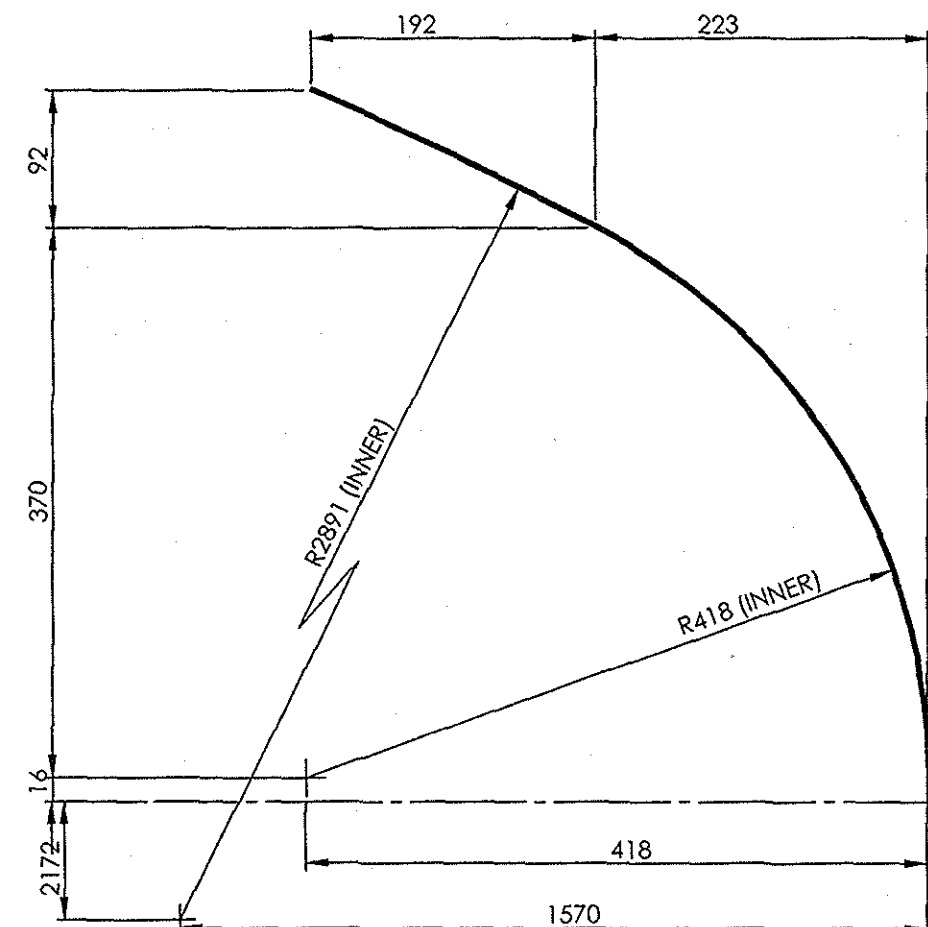
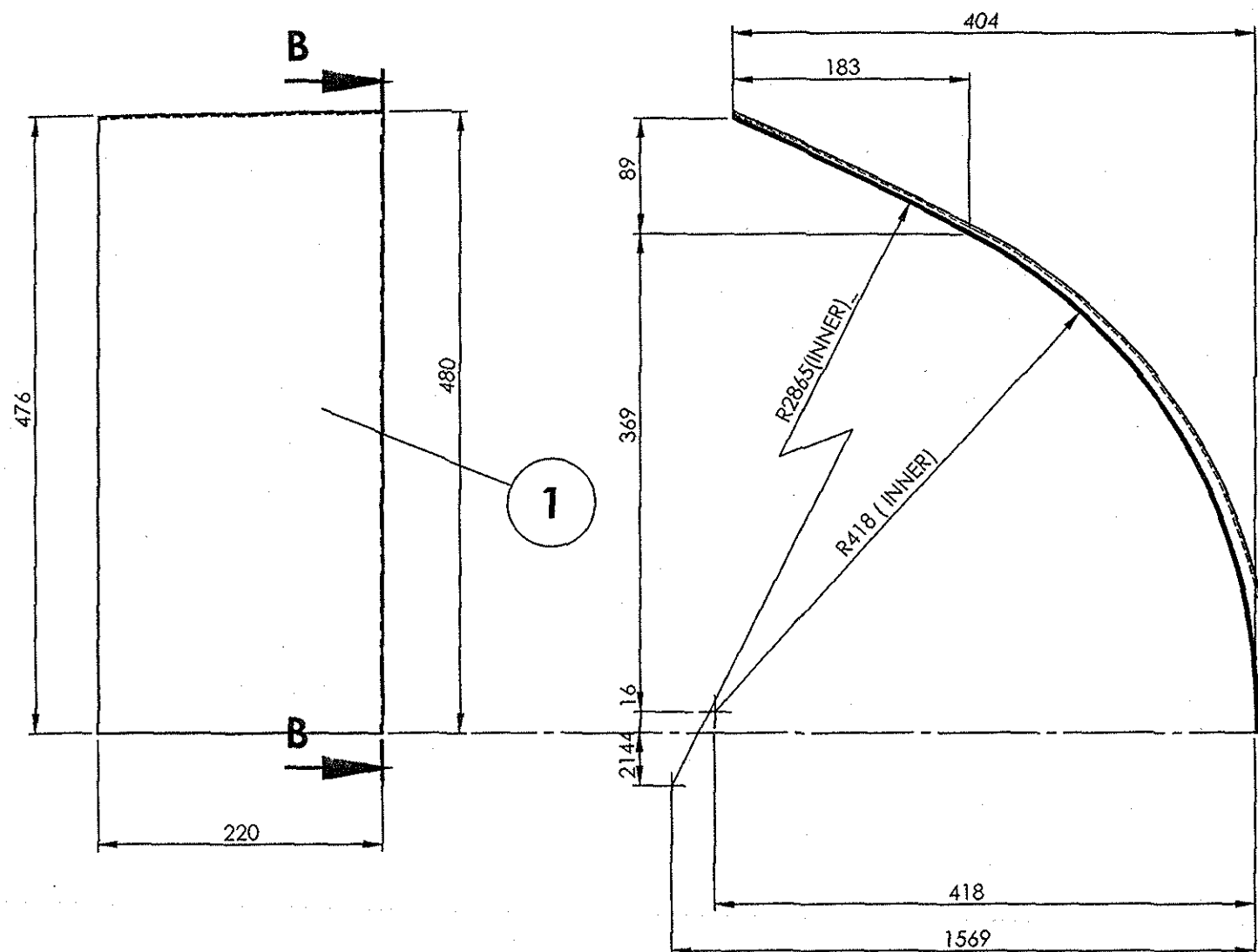
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.

REF.DRG.NO.

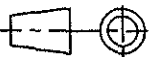
AAA15219

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	⑱ CHAMFERED

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATERIAL SPEC REVISED.	<i>A. (19)</i>



SECTION B-B

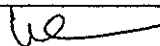
1	COVERING SHEET	2x220x670	1		RDSO/SPEC C- K201 X2CrNi12	2.389	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 END CONSTRUCTION		SURFACE AREA IN Sq.m.:0.296			WT/ASSY IN Kgs:2.337		
COVERING SHEET					SCALE	SSE/D	<i>h. Prasad</i>
					1:5	CHD	
					ALT. a	ALTD	TIKYA NAIK
					DRN		A.Palanichamy & T J K VELU
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1			
AAA15219						A3	

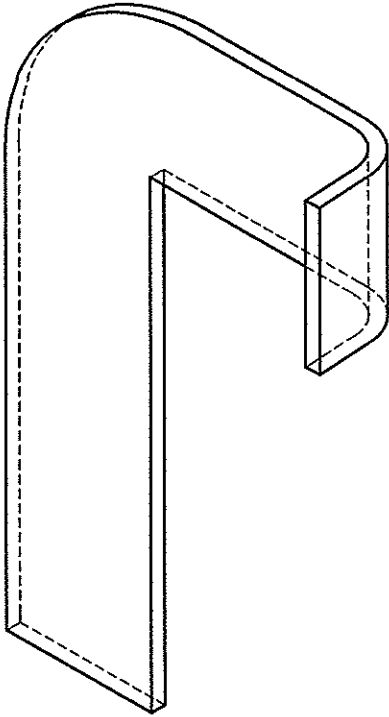
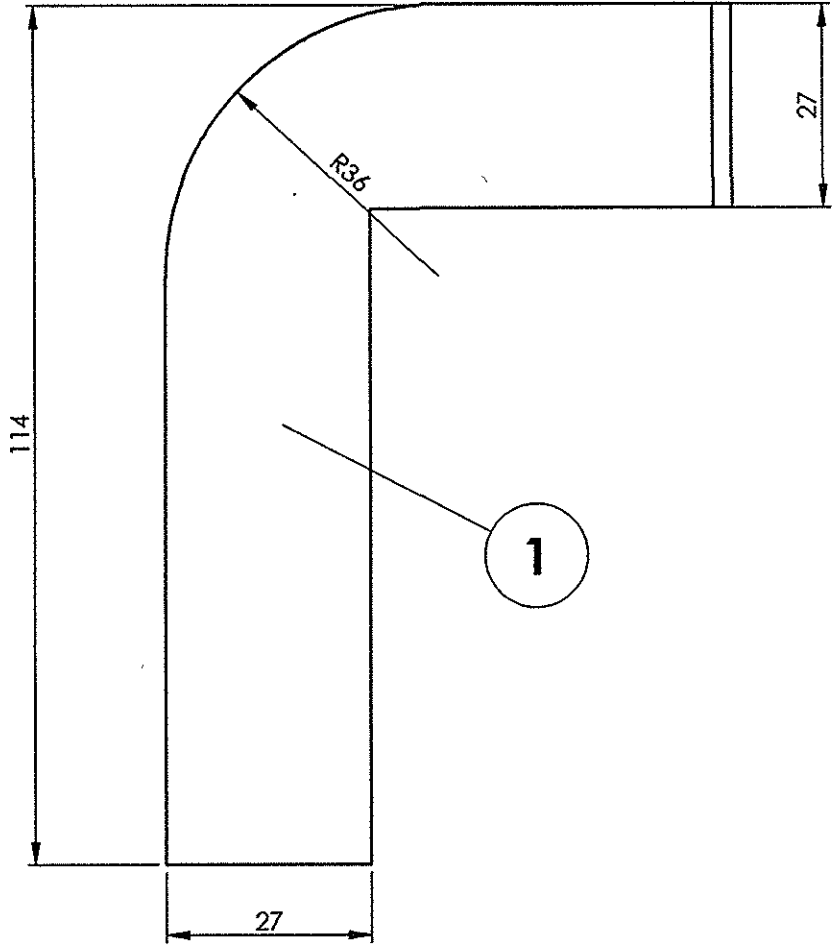
19-02-2016	26-02-2016	<i>A. M.</i>
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	SME

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS REFER DRAWING NO ICF/STD-9-0-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.

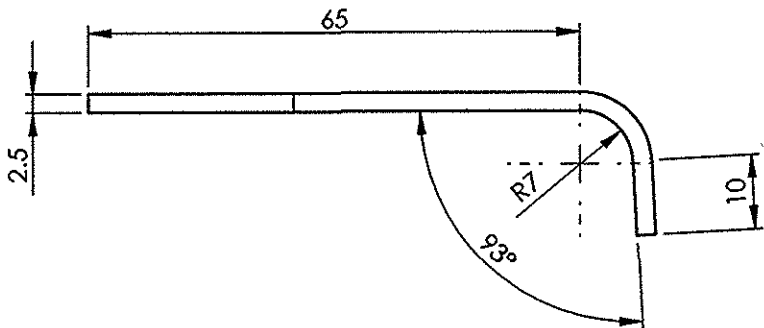
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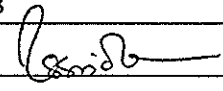

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	⑱ CHAMFERED

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATERIAL SPEC. ALTD. FROM SS-409M TO RDSO/SPEC. C-K201 X2CrNi12	



ISOMETRIC VIEW



1	REINFORCEMENT	2.5x87x114	1		RDSO/SPEC C-K201 X2CrNi12	0.088	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5		SURFACE AREA IN Sq.m.:0.010			WT/ASSY IN Kgs:0.088		
REINFORCEMENT					SCALE	SSE/D	
					1:1	CHD	
					ALT.	ALTD	B.SARAVANAN
					a	DRN	D.MOSES & T J K VELU
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1			
					AAA15232		A3

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.

REF.DRG.NO.

AAA15237

▽ ROUGH MACHINED

▽▽ FINISH MACHINED

▽▽▽ FINE FINISH MACHINED

① ROUGH CLEANED

② BURRS REMOVED

③ CHAMFERED

REVISIONS

ALT.

ZONE

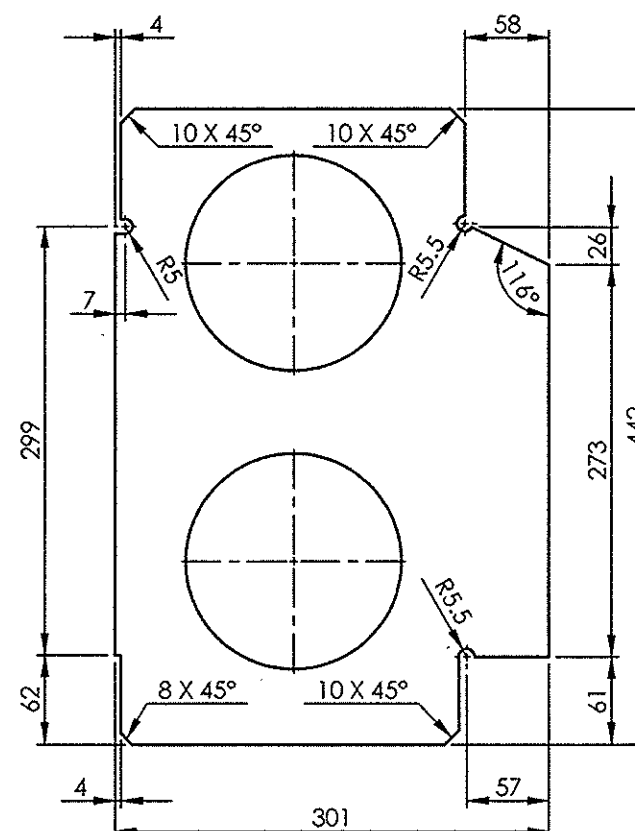
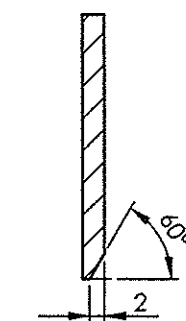
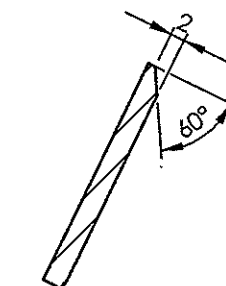
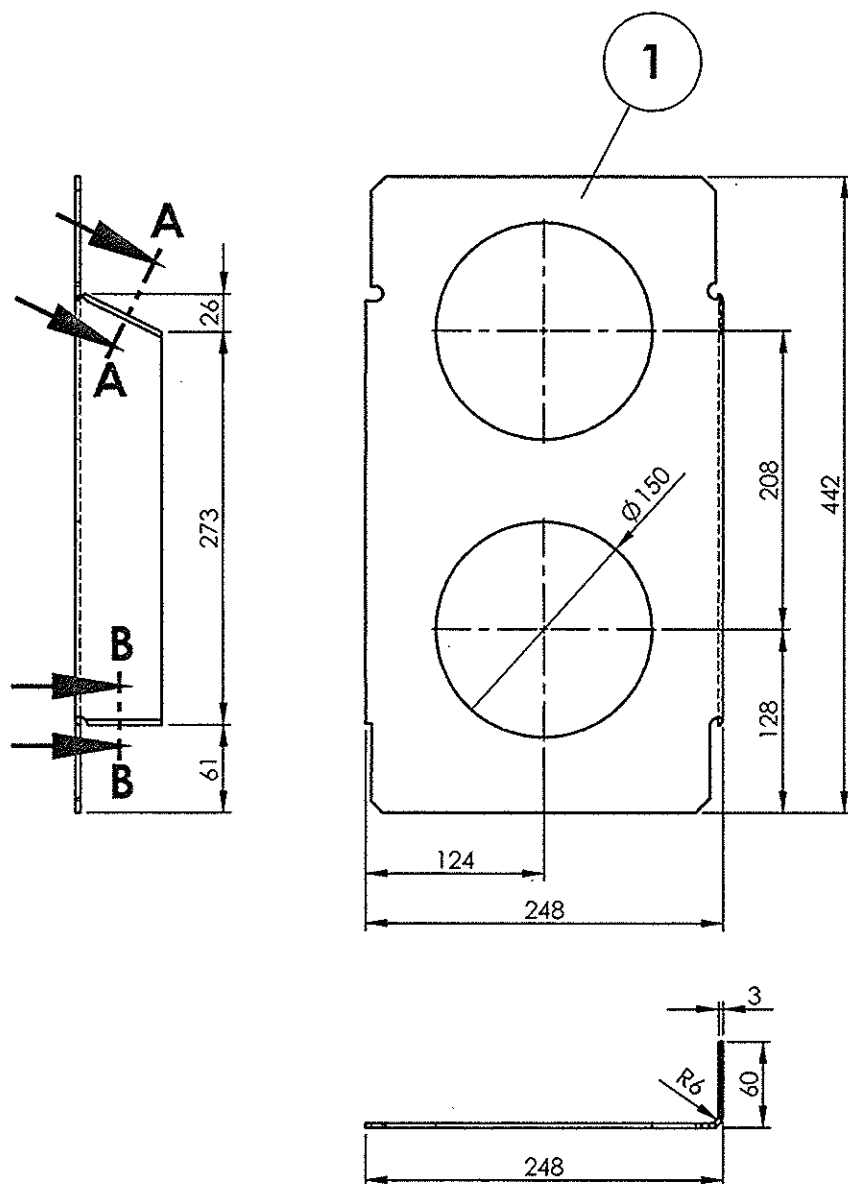
DESCRIPTION

APPROVED &
DATE

b

Ø 150 HOLES ADDED, DIMENSION REVISED, CHAMFERING,
SECTION-AA & BB ADDED, VIEWS UPDATED.

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY




1	PILLAR	3x301x442	1		RDSO/SPEC C-K201 X2CrNi12	2.101	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5		SURFACE AREA IN Sq.m.:0.182			WT/ASSY IN Kgs:		
PILLAR					SCALE 1:5	SSE/D CHD	<i>Amforal ed</i>
					ALT. b	ALTD	R.Vijay Rathinam
						DRN	D.MOSES & T J K VELU
					INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038		
SHEET 1 OF 1	AAA15237						

REF.DRG.NO.2 10113.0.20.120.111

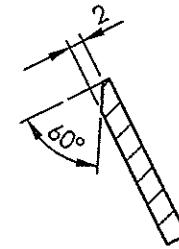
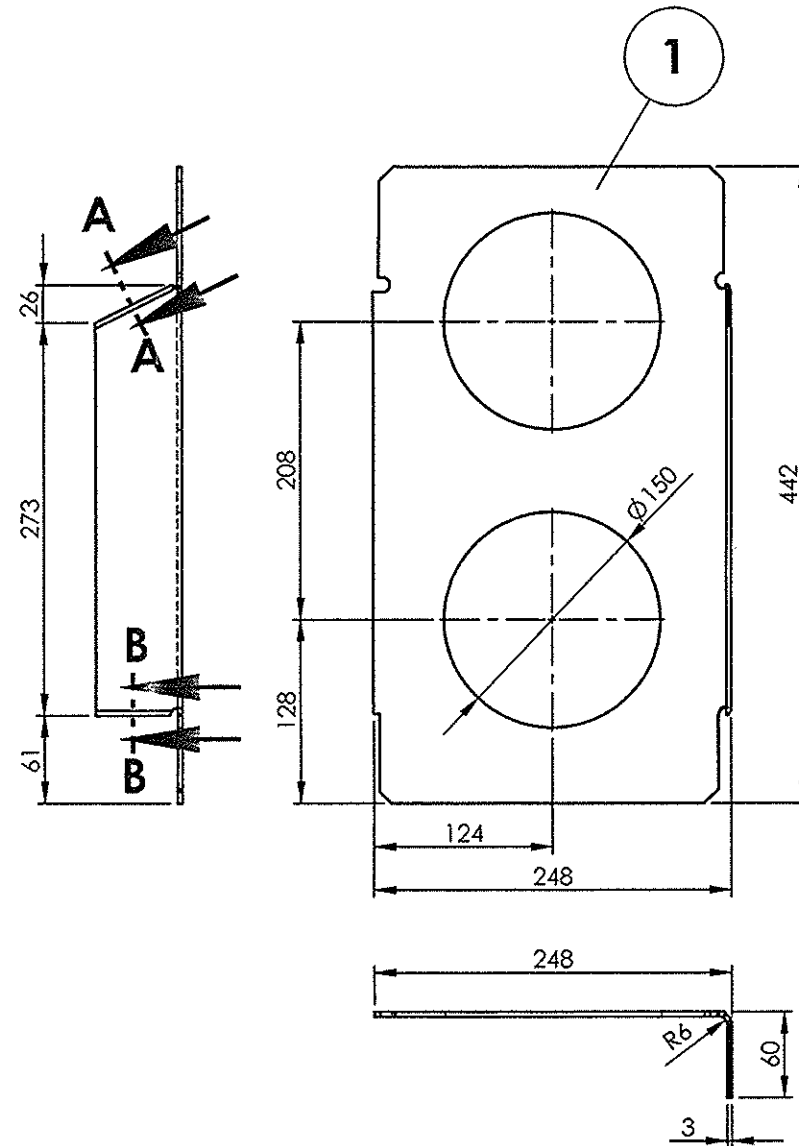
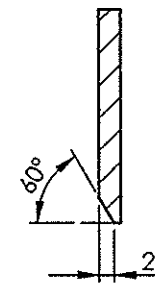
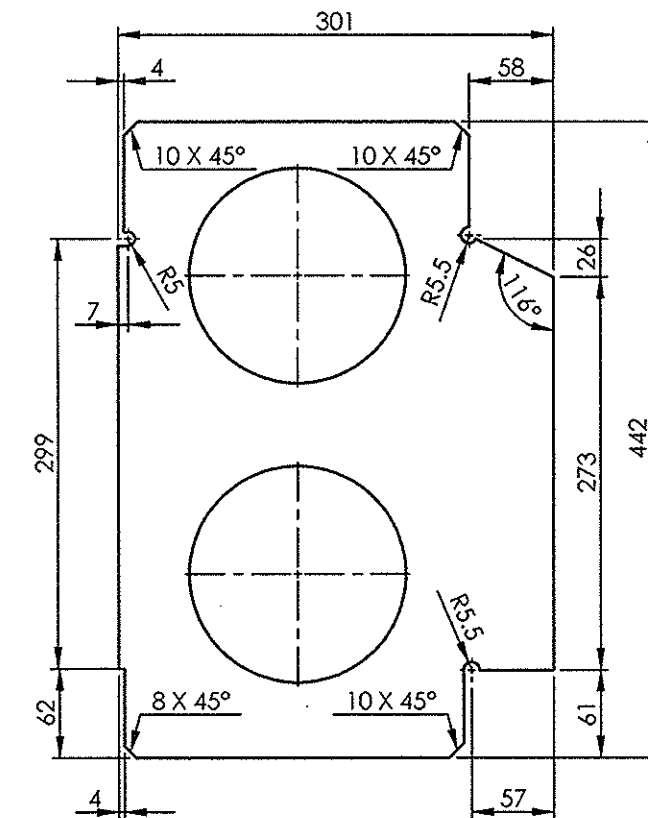
AAA15238

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	② BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	③ CHAMFERED

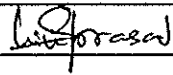

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
b		Ø 150 HOLES ADDED, DIMENSION REVISED, CHAMFERING, SECTION-AA & BB ADDED, VIEWS UPDATED.	

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO IC/STD-9-0-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

REF.DRG.NO.2 10113.0.20.120.110

SECTION A-A
SCALE 1:1SECTION B-B
SCALE 1:1

DEVELOPMENT VIEW

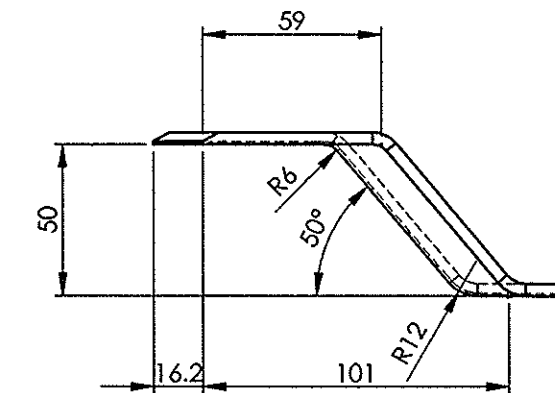
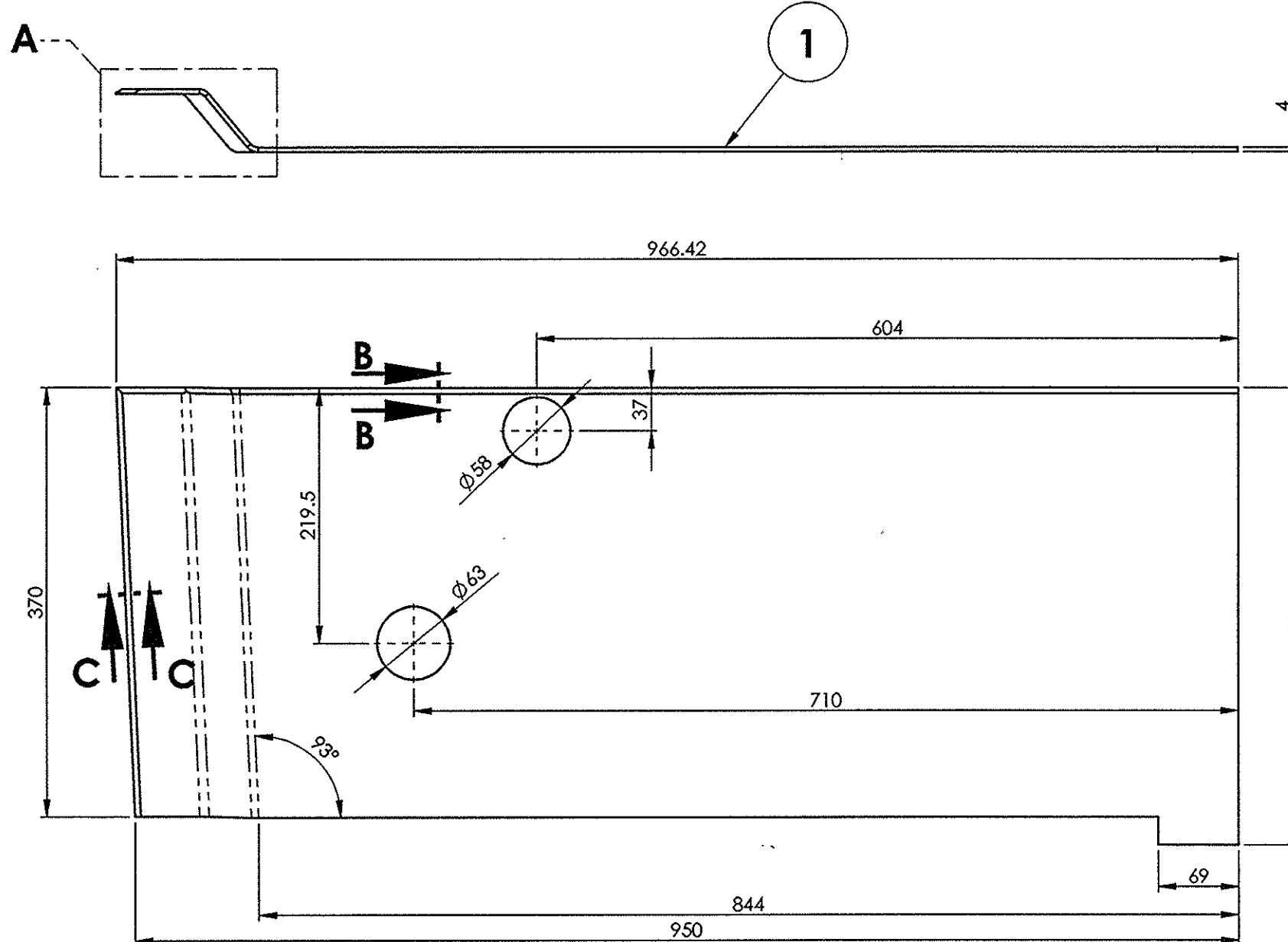
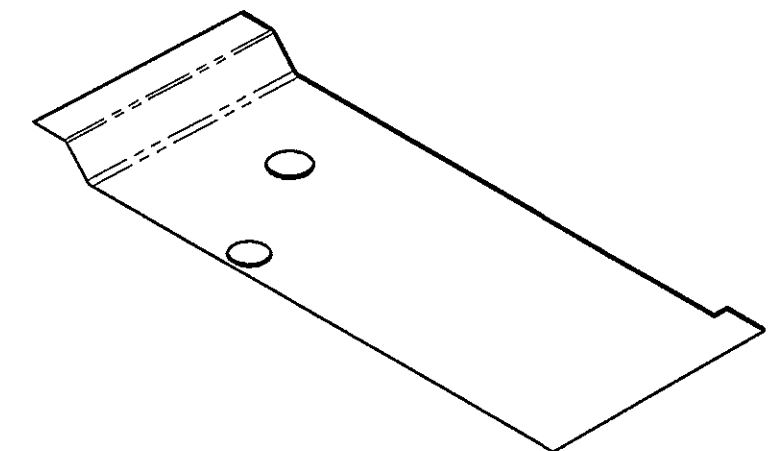
1	PILLAR	3x301x442	1		RDSO/SPEC C-K201 X2CrNi12	2.101	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5		SURFACE AREA IN Sq.m.:0.182			WT/ASSY IN Kgs:		
PILLAR					SCALE	SSE/D	
					1:5	CHD	
					ALT. b	ALTD	R.Vijay Rothinam
						DRN	D.MOSES & T J K VELU
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1			
					AAA15238		A3
INTEGRAL COACH FACTORY, CHENNAI - 600038							

AAA15244

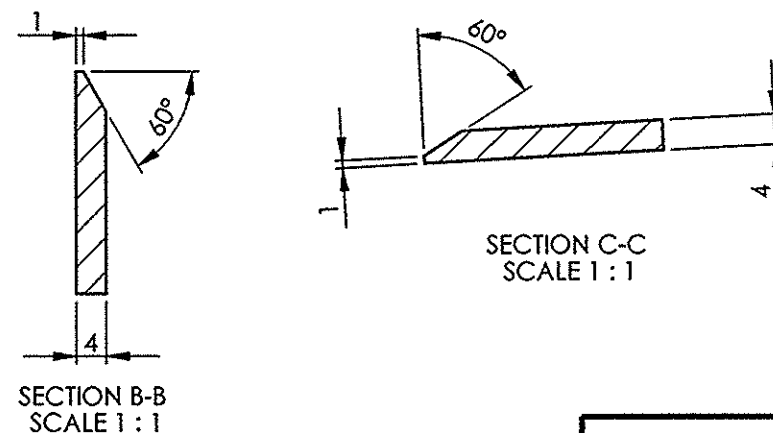
▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	⑱ CHAMFERED

REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATERIAL SPEC. ALTD. FROM SS-409M TO RDSO/SPEC. C-K201 X2CrNi12	<i>[Signature]</i>

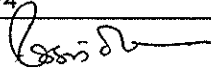

DETAIL A
SCALE 2 : 5

ISOMETRIC VIEW

SECTION C-C
SCALE 1 : 1SECTION B-B
SCALE 1 : 1

REF.DRG.NO.

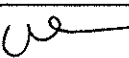
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DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

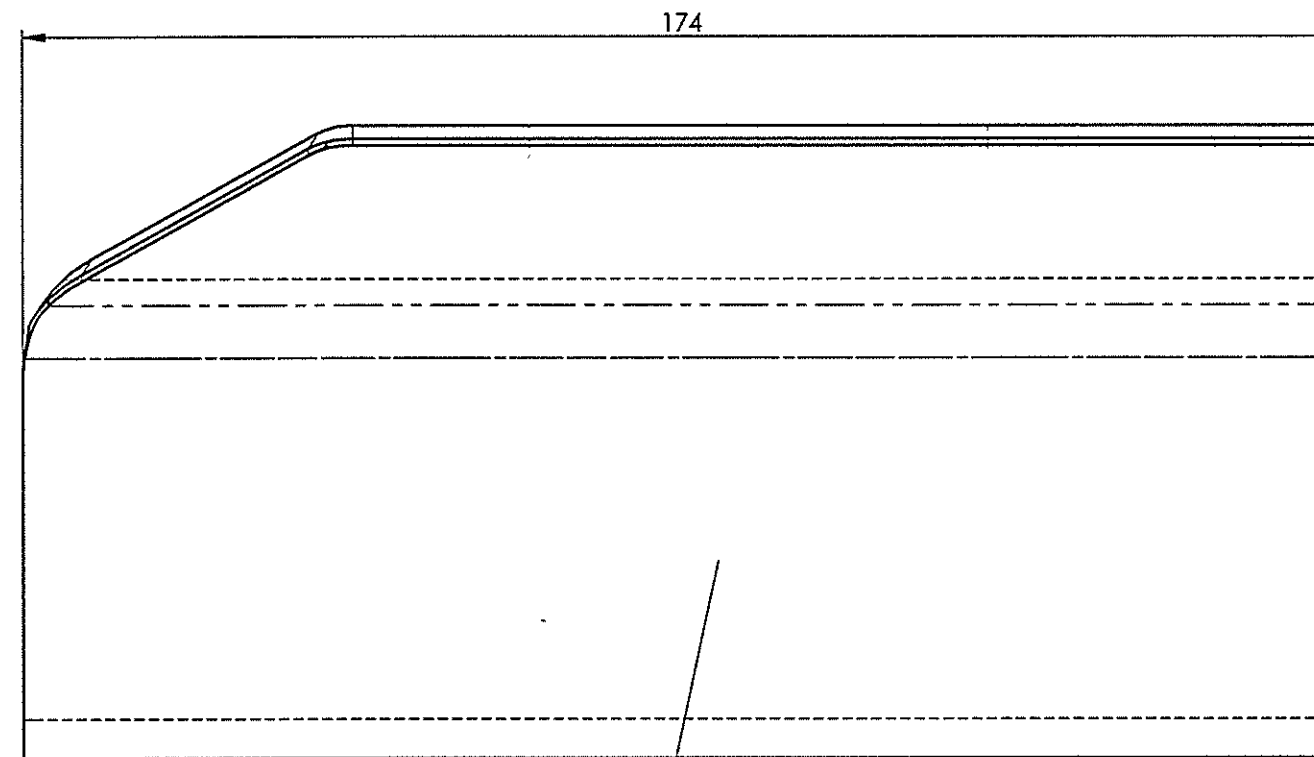
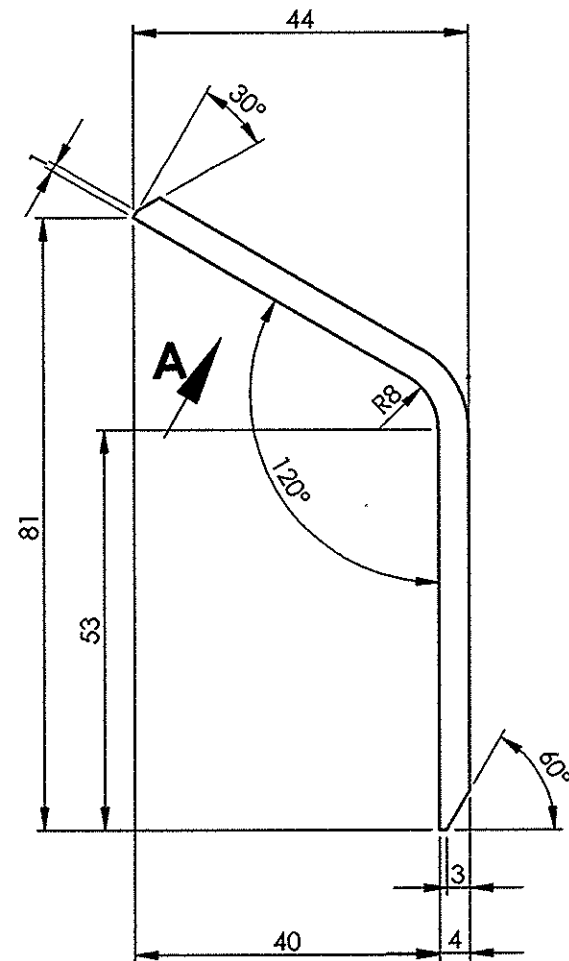
1	FLANGE R.H	4x394x988	1		RDSO/SPEC C-K201 X2CrNi12	11.394	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 END CONSTRUCTION		SURFACE AREA IN Sq.m.:0.727			WT/ASSY IN Kgs:11.394		
FLANGE R.H					SCALE	SSE/D	
					1:5	CHD	
					ALT.	ALTD	B.SARAVANAN
					a	DRN	A.Palanichamy & T J K VELU
							
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1			
INTEGRAL COACH FACTORY, CHENNAI - 600038					AAA15244	A3	

AAA15247

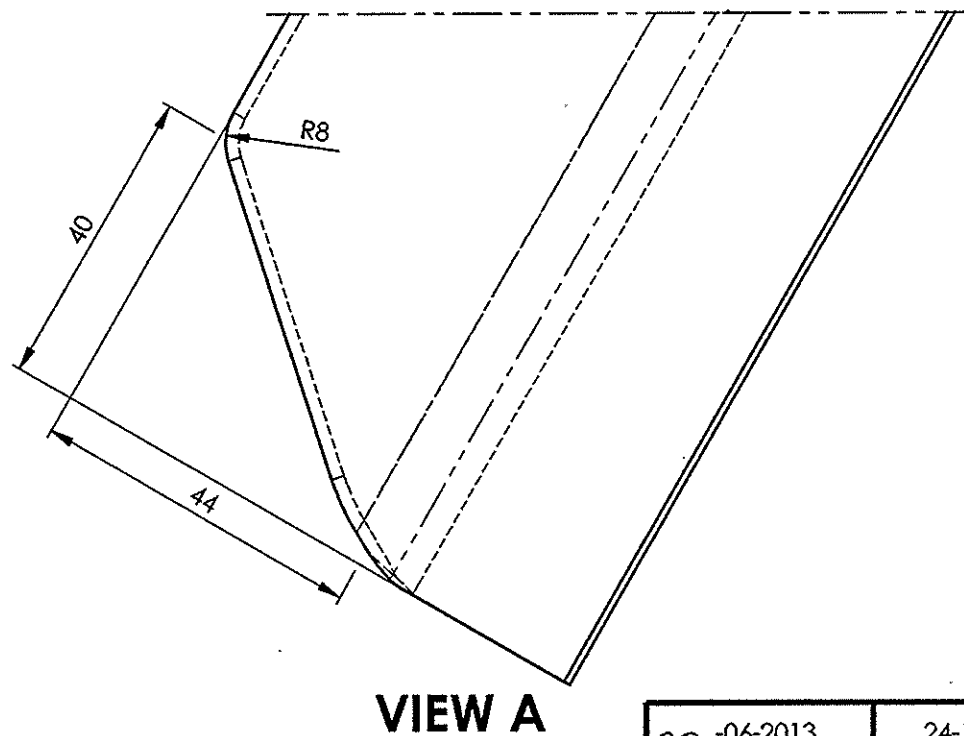
▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	⑱ CHAMFERED

REVISIONS


ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATERIAL SPEC. ALTD FROM SS-409M TO RDSO/SPEC. C-K201 X2CrNi12	

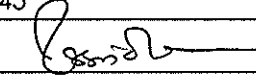
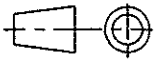


1



VIEW A

30-06-2013	24-12-2009	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	SME/AME

1	COVERING SHEET	4x105x174	1		RDSO/SPEC C-K201 X2CrNi12	0.542	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 END CONSTRUCTION				SURFACE AREA IN Sq.m.:0.036		WT/ASSY IN Kgs:0.545	
COVERING SHEET					SCALE 1:1	SSE/D CHD	
					ALT. a	ALTD DRN	B.SARAVANAN A.Palanichamy & T J K VELU
							
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1		AAA15247	
INTEGRAL COACH FACTORY, CHENNAI - 600038						A3	

AAA15248

▽ ROUGH MACHINED

▽▽ FINISH MACHINED

▽▽▽ FINE FINISH MACHINED

① ROUGH CLEANED

② BURRS REMOVED

③ CHAMFERED

REVISIONS

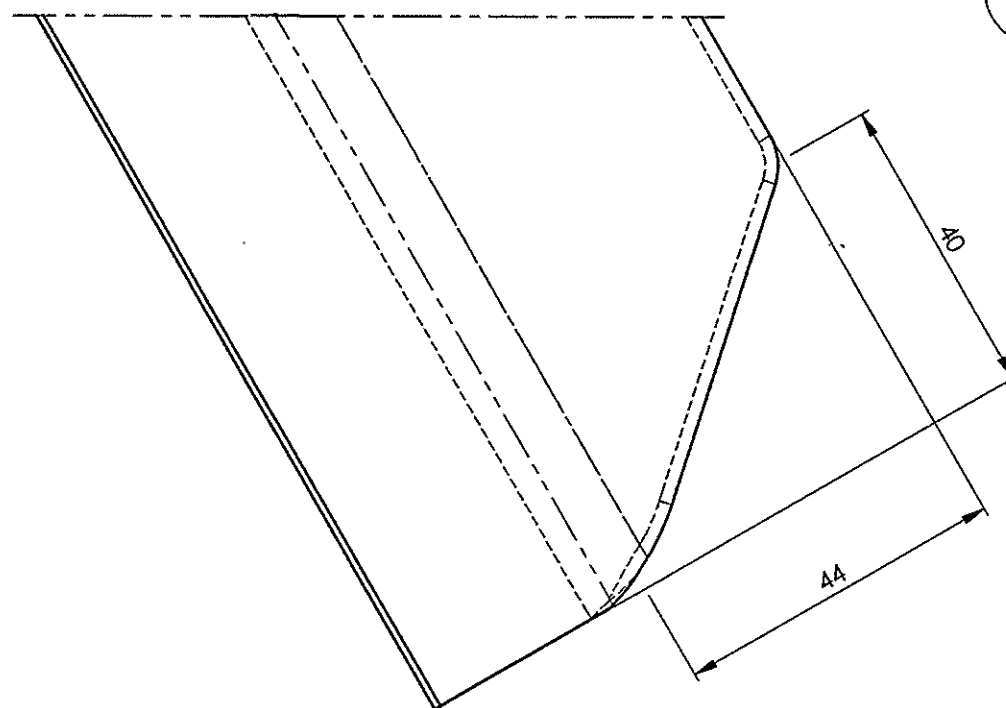
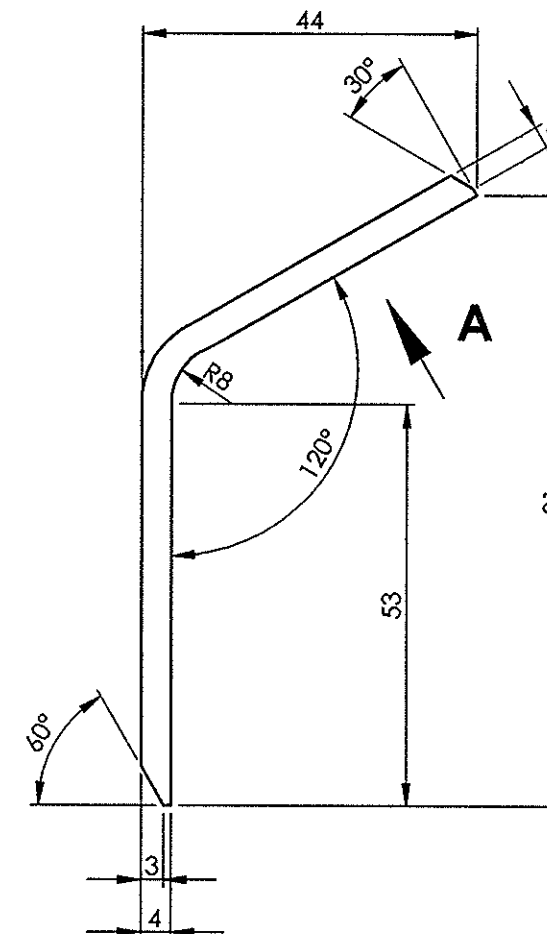
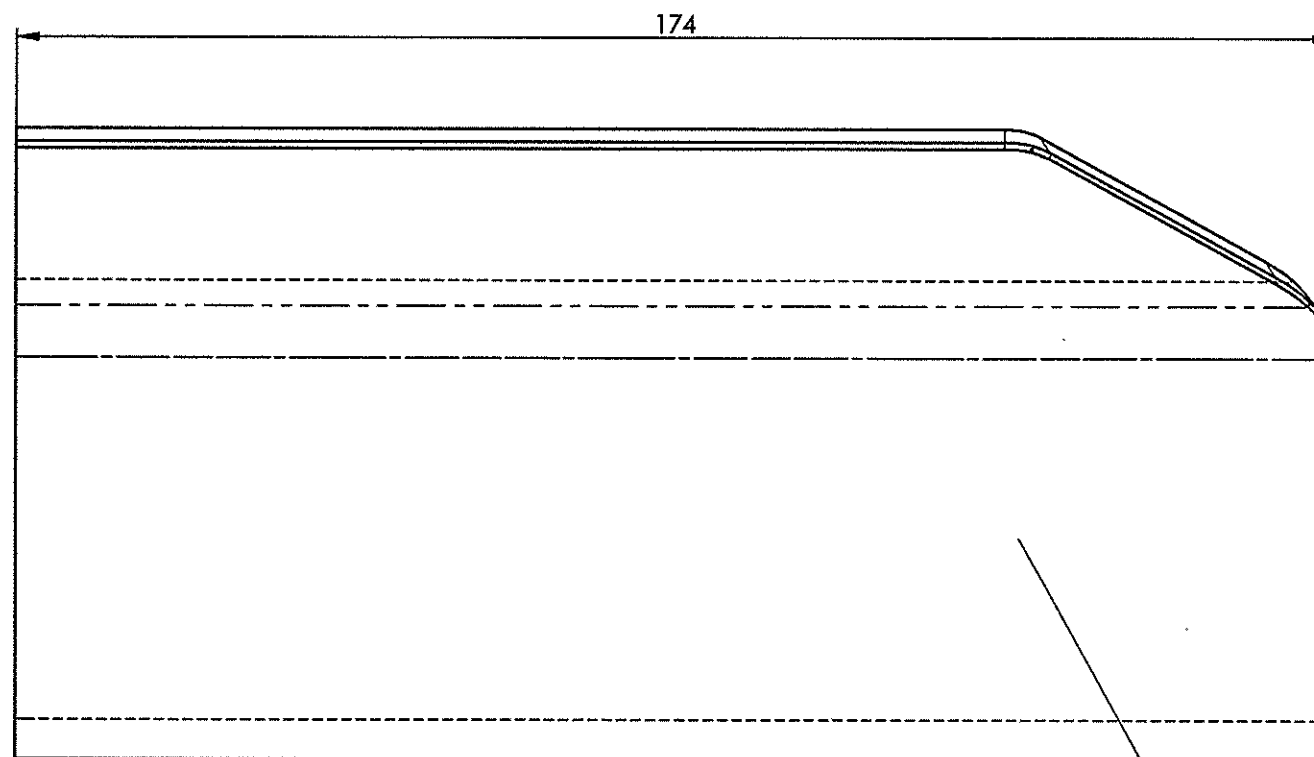
ALT.

ZONE

DESCRIPTION

APPROVED &
DATE

a

MATERIAL SPEC. ALTD. FROM SS-409M TO
RDSO/SPEC. C-K201 X2CrNi12

VIEW A

30-06-2013

24-12-2009

DATE OF LATEST ALT.

DATE OF FIRST ISSUE

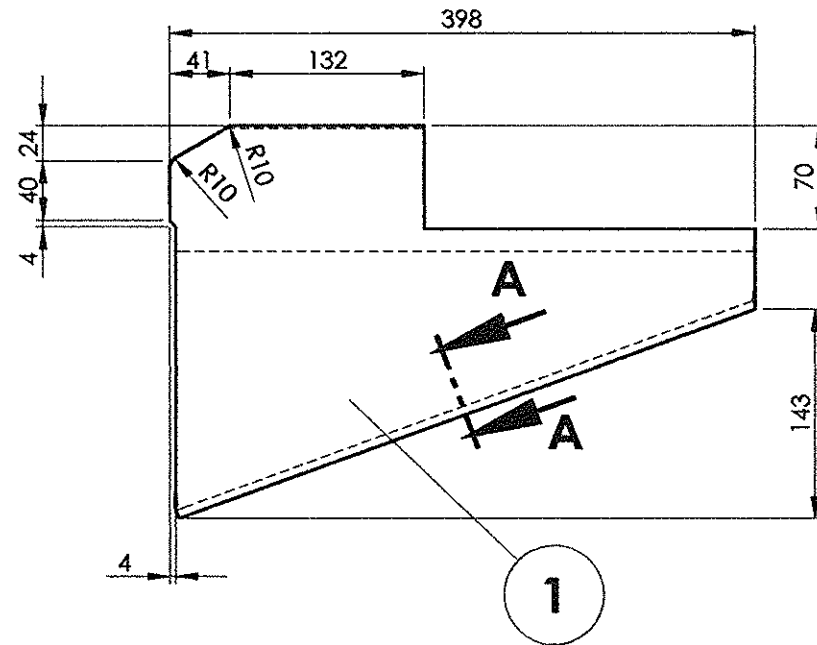
SME/AME

1	COVERING SHEET	4x105x174	1		RDSO/SPEC C-K201 X2CrNi12	0.542	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 END CONSTRUCTION				SURFACE AREA IN Sq.m.:0.036		WT/ASSY IN Kgs:0.545	
COVERING SHEET					SCALE	SSE/D	B.SARAVANAN A.Palanichamy & T J K VELU
					1:1	CHD	
INDIAN RAILWAY STANDARDS					ALT.	ALTD	A3
					a	DRN	
INTEGRAL COACH FACTORY, CHENNAI - 600038					SHEET 1 OF 1		
					AAA15248		

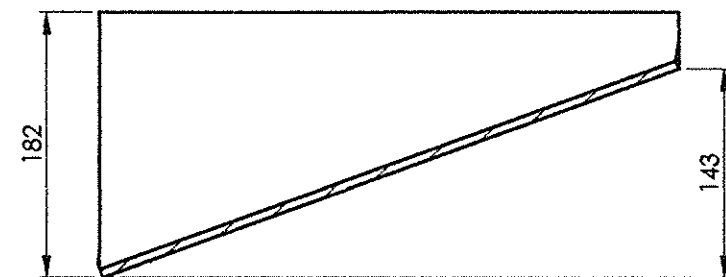
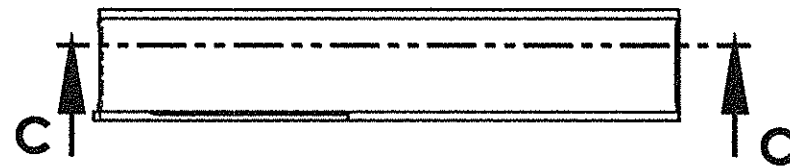
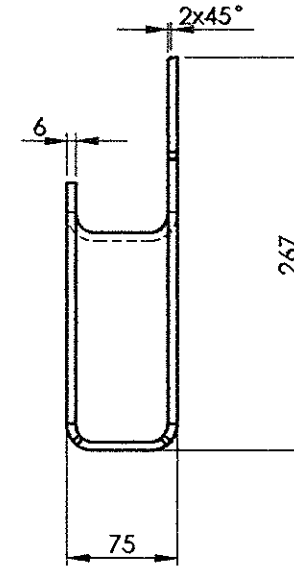
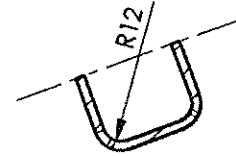
AAA15249

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	⑱ CHAMFERED

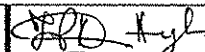
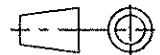
REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



SECTION A-A



SECTION C-C

1	CONSOLE	6x440x451	1		IRS M-41-1997	5.916	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 END CONSTRUCTION		SURFACE AREA IN Sq.m.:0.261			WT/ASSY IN Kgs:5.939		
CONSOLE					SCALE	SSE/D	
					1:5	CHD	
					ALT.	ALTD	
						DRN	A.Palanichamy & T J K VELU
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1			
INTEGRAL COACH FACTORY, CHENNAI - 600088					AAA15249		A3

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS REFER DRAWING NO ICF/STD-9-0-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.

AAA15250

▽ ROUGH MACHINED
▽▽ FINISH MACHINED
▽▽▽ FINE FINISH MACHINED

① ROUGH CLEANED
①b BURRS REMOVED
⑱ CHAMFERED

REVISIONS

ALT.

ZONE

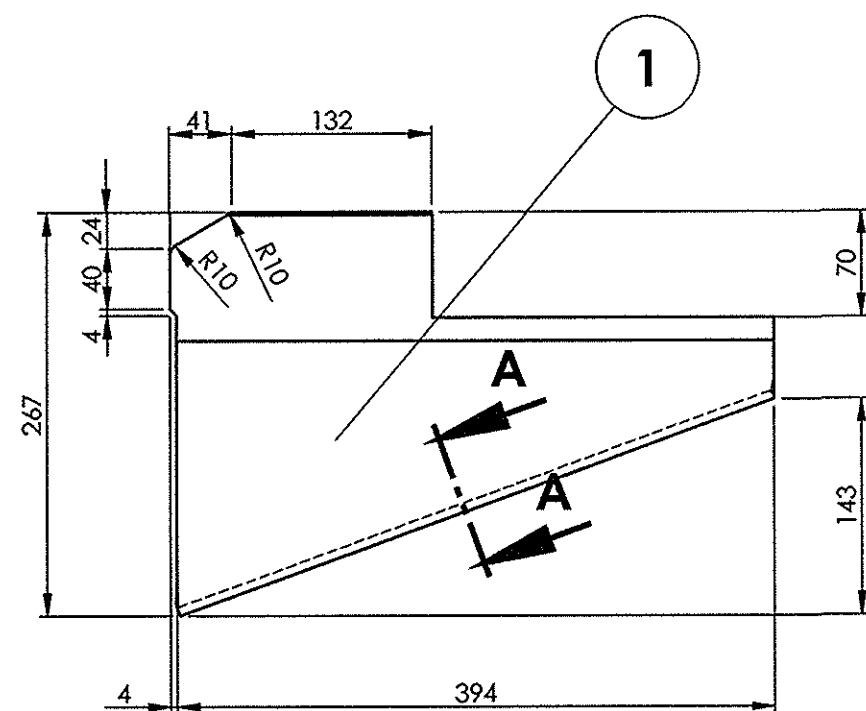
DESCRIPTION

APPROVED &
DATE

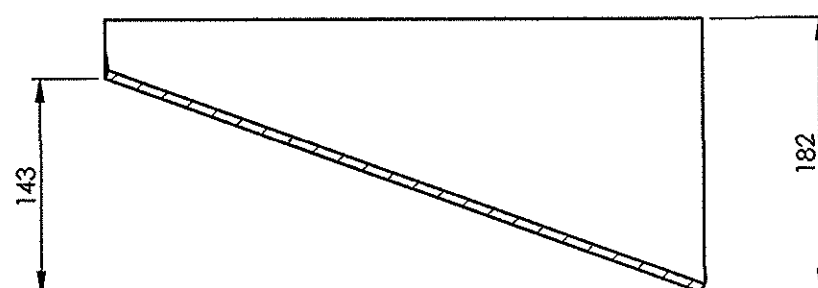
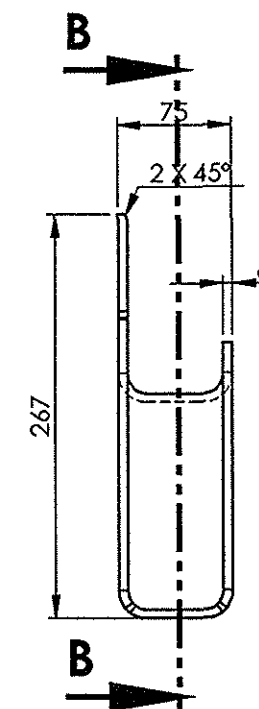
a

MAT. SPEC. ALTERED FROM RDSO/SPEC C-K 201 X2CrNi12 TO
IRS M41-97.

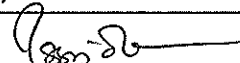
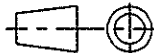
be



SECTION A-A



SECTION B-B

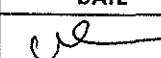
1	CONSOLE	6x440x451	1		IRS M-41-1997	5.92	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 END CONSTRUCTION		SURFACE AREA IN Sq.m.:0.261			WT/ASSY IN Kgs:5.939		
CONSOLE					SCALE	SSE/D	
					1:5	CHD	
					ALT.	ALTD	V.S.SRIDHARAN
					a	DRN	T.J.Kumaravelu
INDIAN RAILWAY STANDARDS							
INTEGRAL COACH FACTORY, CHENNAI - 600038					SHEET 1 OF 1	AAA15250	
							A3

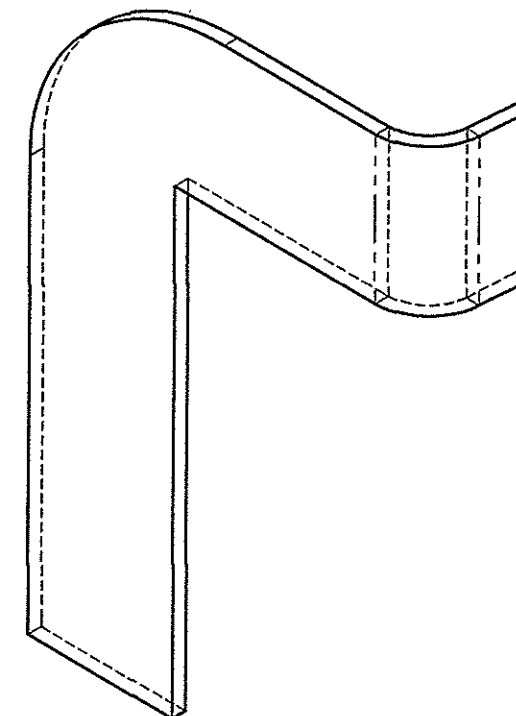
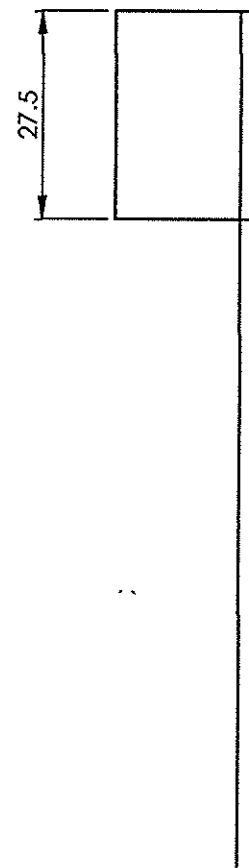
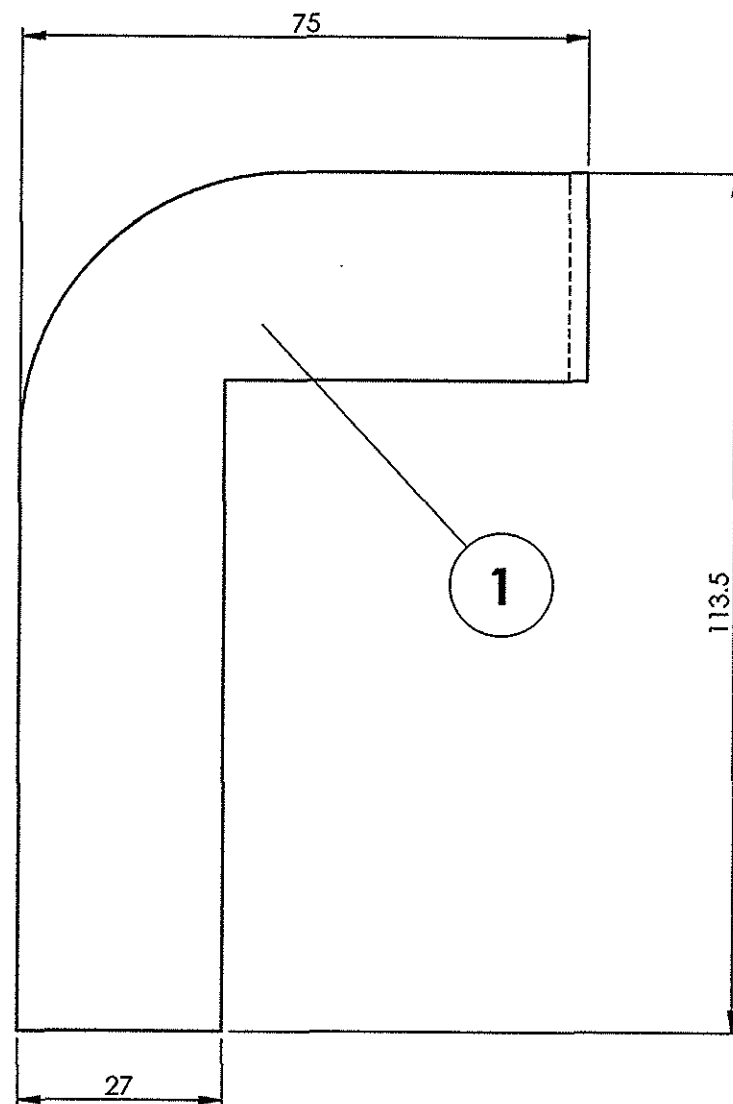
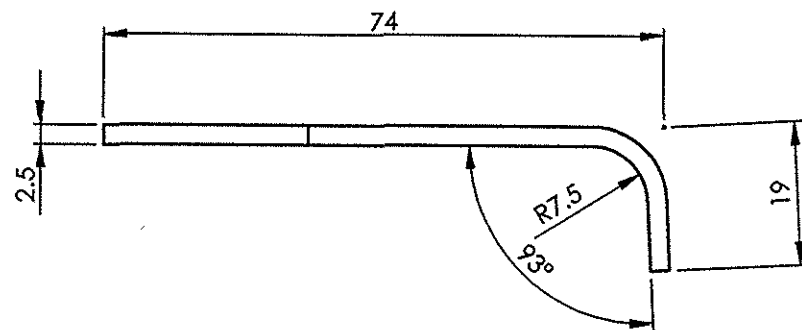
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.

REF.DRG.NO.

AAA15252

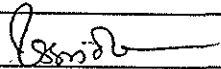
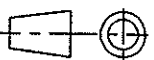
▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	⑱ CHAMFERED


REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATERIAL SPEC. ALTD. FROM SS-409M TO RDSO/SPEC. C-K201 X2CrNi12	



3D VIEW

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS REFER DRAWING NO ICF/STD-9-0-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.

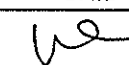
1	REINFORCEMENT	2.5x87x114	1		RDSO/SPEC C-K201 X2CrNi12	0.089	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5		SURFACE AREA IN Sq.m.:0.010			WT/ASSY IN Kgs:0.089		
REINFORCEMENT					SCALE	SSE/D	
					1:1	CHD	
					ALT.	ALTD	B.SARAVANAN
					a	DRN	D.MOSES & T J K VELU
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1			A3
					AAA15252		

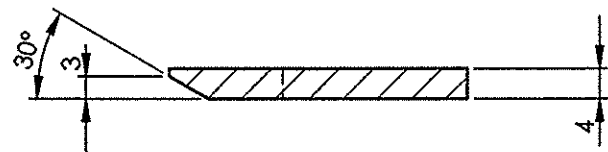
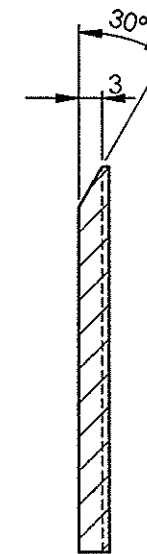
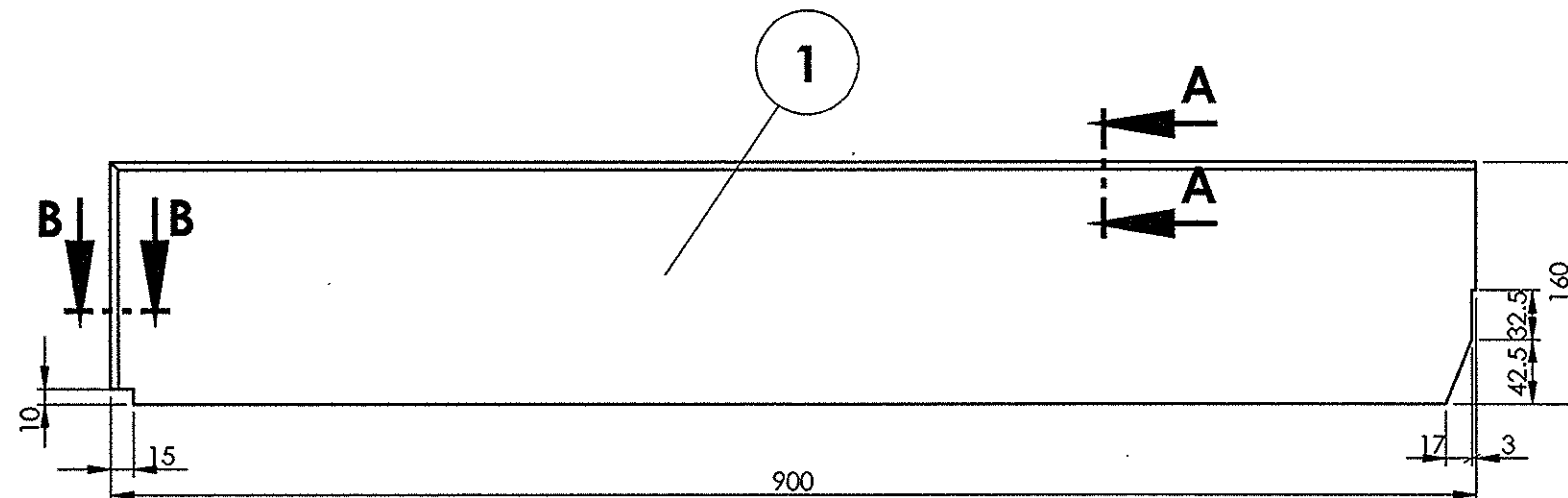
30 -06-2013	26-02-2010	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	SME/AME

AAA15253

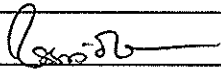
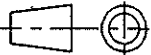
▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	⑱ CHAMFERED

REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATERIAL SPEC. ALTD. FROM SS-409M TO RDSO/SPEC. C-K201 X2CrNi12	

SECTION B-B
SCALE 1 : 1SECTION A-A
SCALE 1 : 1

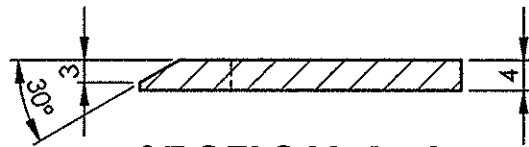
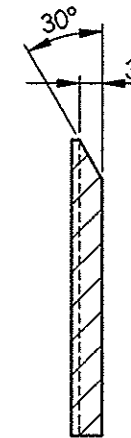
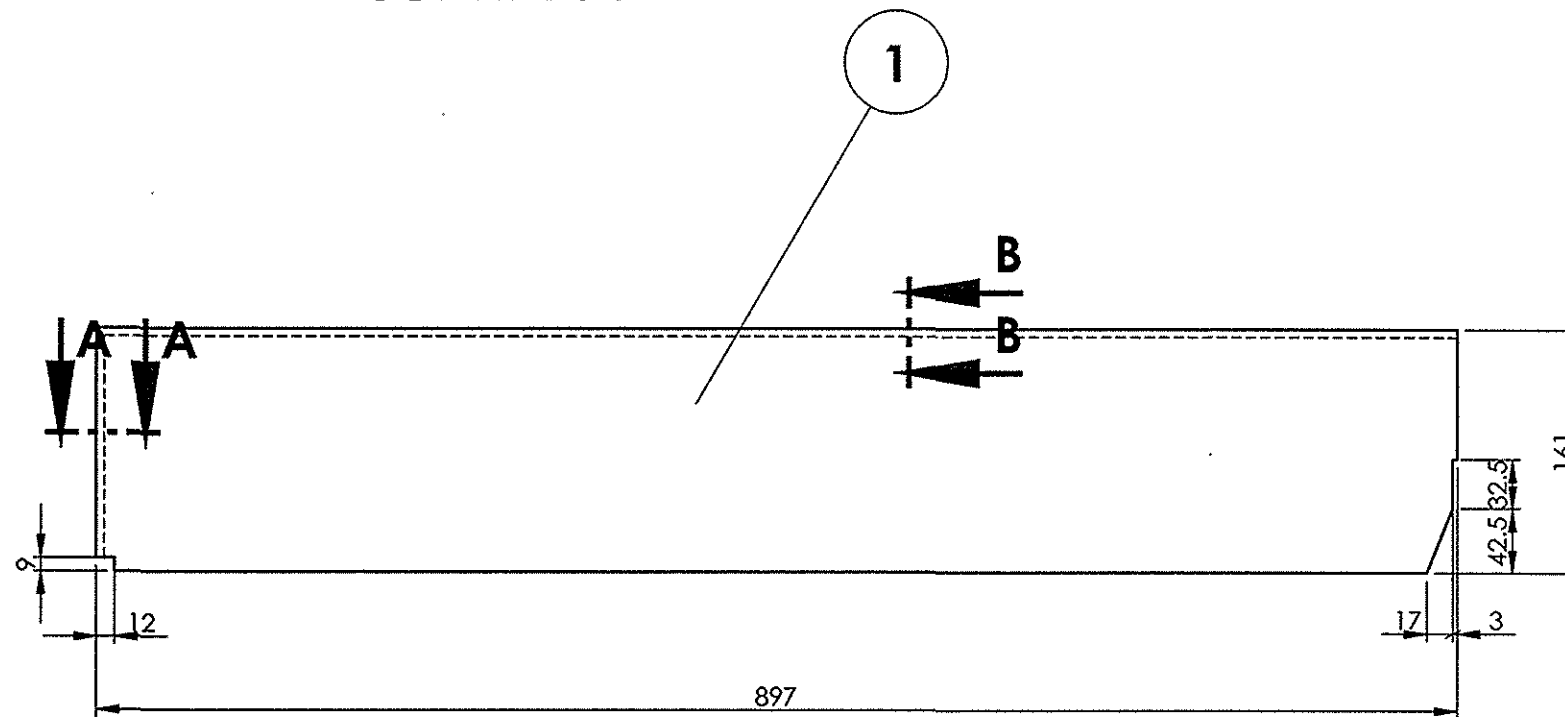
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS REFER DRAWING NO ICF/STD-9-0-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.

1	FRAMEWORK PART	4x160X900	1		RDSO/SPEC C-K201 X2CrNi12	4.519		
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS	
GROUP: 1-5		SURFACE AREA IN Sq.m.:0.293			WT/ASSY IN Kgs:4.519			
FRAMEWORK					SCALE	SSE/D		
					1:5	CHD		
					ALT. a	ALTD	B.SARAVANAN	
						DRN	D.MOSES & T J K VELU	
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1				
					AAA15253		A3	

AAA15254

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	⑱ CHAMFERED

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		R.M.SIZE ALTD. FROM 4x160x900 TO 4x160x897 AND MATERIAL SPEC. ALTD.FROM SS-409M TO RDSO/SPEC. C-K201 X2CrNi12	

SECTION A-A
SCALE 1 : 1SECTION B-B
SCALE 1 : 1

1	FRAMEWORK PART	4x160x897	1		RDSO/SPEC C-K201 X2CrNi12	4.520	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5				SURFACE AREA IN Sq.m.:0.293		WT/ASSY IN Kgs:4.520	
FRAMEWORK					SCALE	SSE/D	
					1:5	CHD	
					ALT.	ALTD	B.SARAVANAN
					a	DRN	D.MOSES & T J K VELU
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1			
INTEGRAL COACH FACTORY, CHENNAI - 600088							
30-06-2013	26-02-2010					AAA15254	A3
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME					

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.

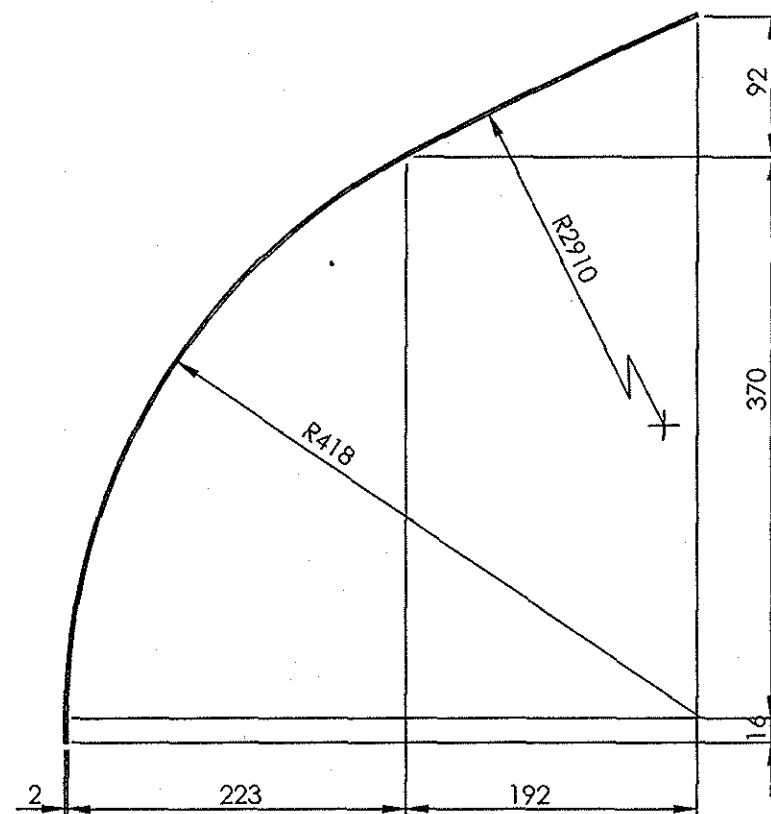
REF.DRG.NO.

AAA15259

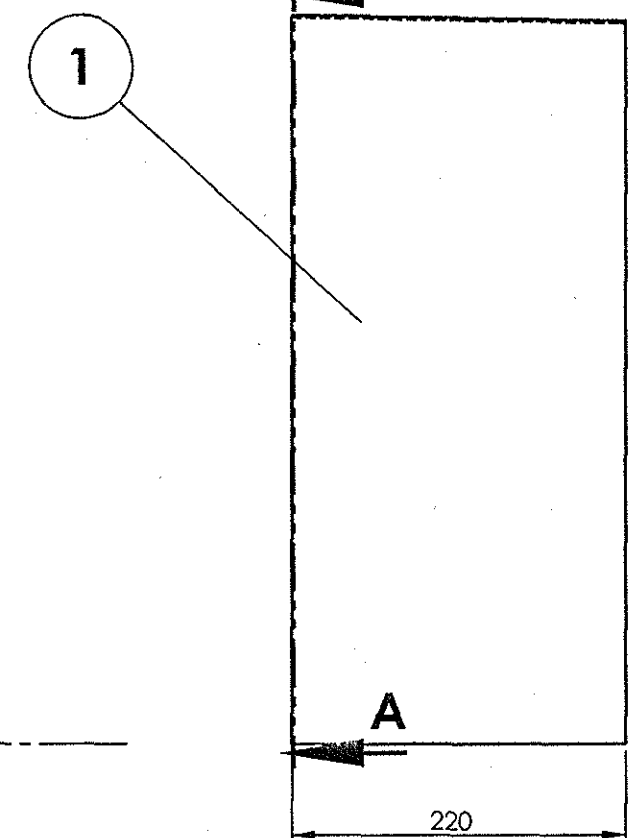
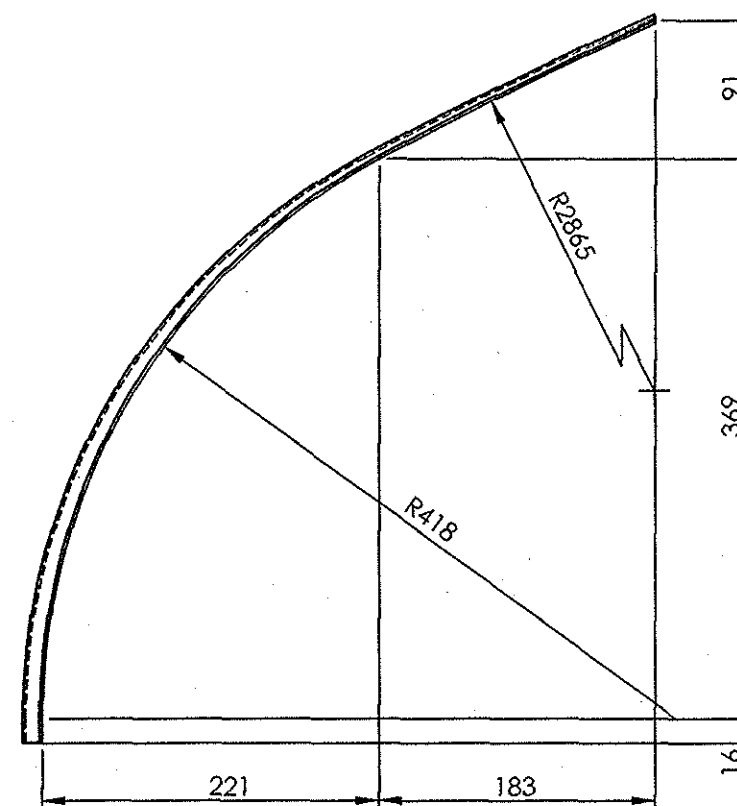
▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	⑱ CHAMFERED

REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATERIAL SPEC REVISED	<i>R</i> 19/1



SECTION A-A



ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS REFER DRAWING NO IC/STD-9-0-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.

1	COVERING SHEET	2x218x676	1		RDSO/SPEC C-K201 X2CrNi12	2.389	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 END CONSTRUCTION		SURFACE AREA IN Sq.m.:0.296		WT/ASSY IN Kgs:2.340			
COVERING SHEET					SCALE	SSE/D	<i>L. Srinivas</i>
					1:5	CHD	
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038					ALT.	ALTD	TIKYA NAIK.M
					a	DRN	A.Palanichamy & T.J K VELU
SHEET 1 OF 1					AAA15259		A3
19-02-2016		26-02-2010		A.M.			
DATE OF LATEST ALT.		DATE OF FIRST ISSUE		SME			

AAA15261

▽ ROUGH MACHINED

▽▽ FINISH MACHINED

▽▽▽ FINE FINISH MACHINED

① ROUGH CLEANED

①b BURRS REMOVED

⑱ CHAMFERED

REVISIONS

ALT.

ZONE

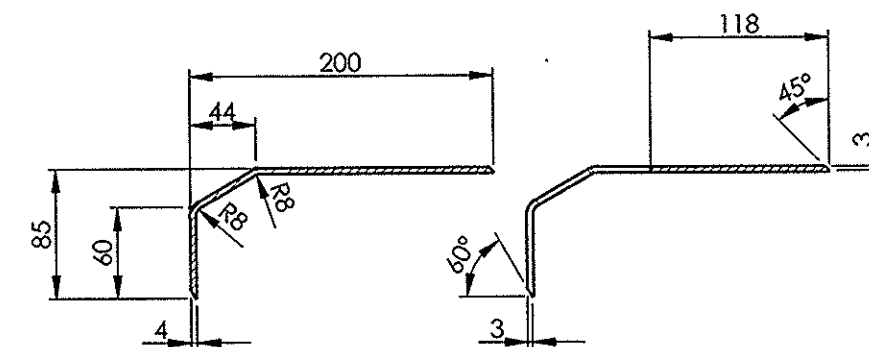
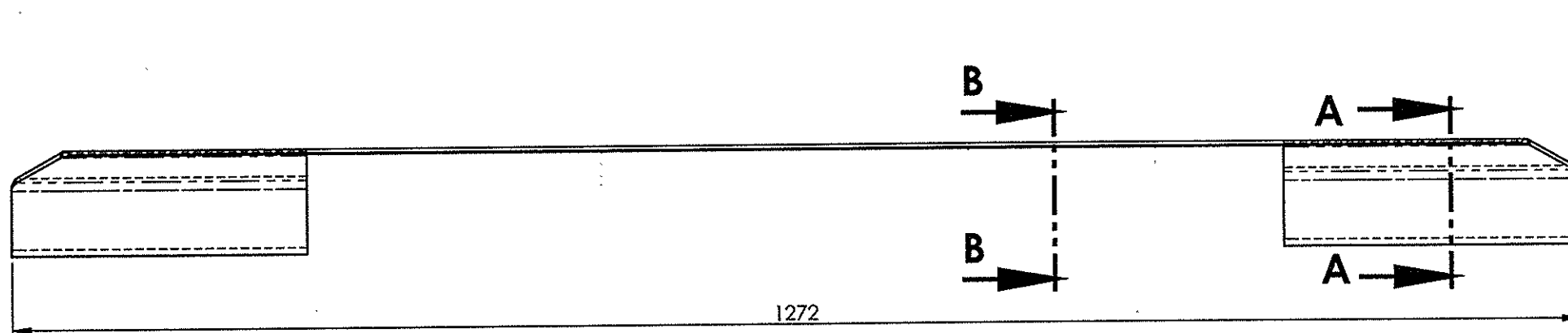
DESCRIPTION

APPROVED &
DATE

a

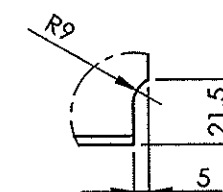
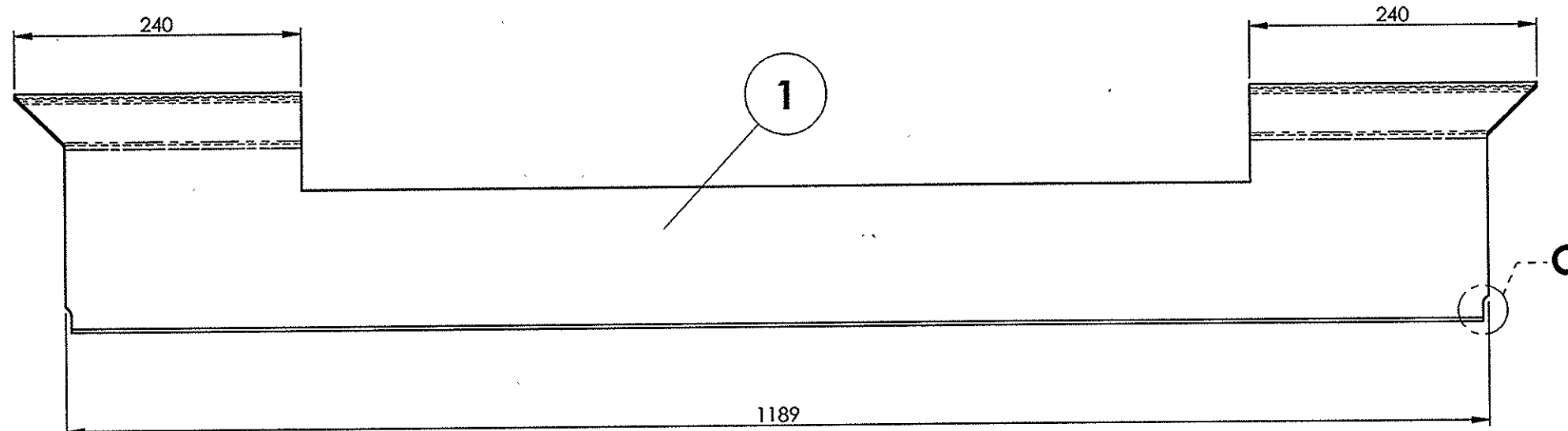
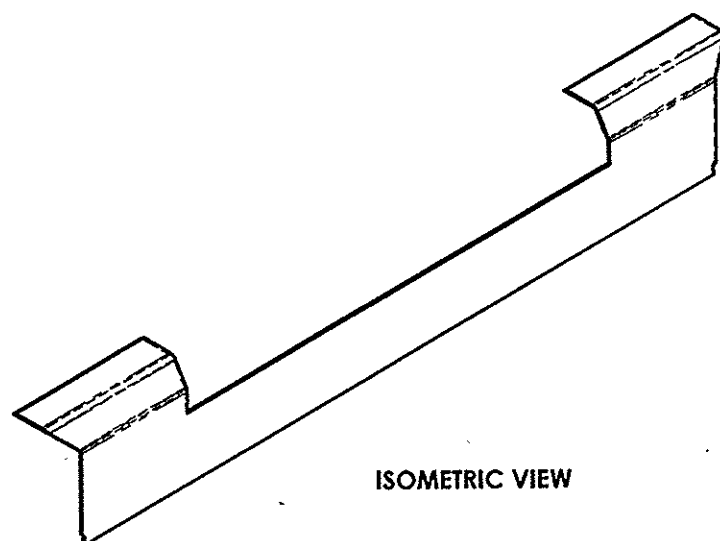
MATERIAL SPEC. ALTD. FROM SS-409M TO RDSO/SPEC. C-K201
X2CrNi12

27/2

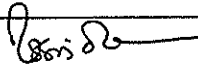



SECTION A-A

SECTION B-B

DETAIL C
SCALE 2 : 5

ISOMETRIC VIEW

1	SILL	4x261.5x1272	1		RDSO/SPEC C-K201 X2CrNi12	6.458		
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS	
GROUP: 1-5 END CONSTRUCTION		SURFACE AREA IN Sq.m.:0.418			WT/ASSY IN Kgs:6.458			
SILL					SCALE	SSE/D		
					1:5	CHD		
					ALT. a	ALTD	B.SARAVANAN	
						DRN	A.Palanichamy & T J K VELU	
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600088				SHEET 1 OF 1				
					AAA15261		A3	

-07-2013

24-12-2009

AME/SME

DATE OF LATEST ALT.

DATE OF FIRST ISSUE

REF.DRG.NO.

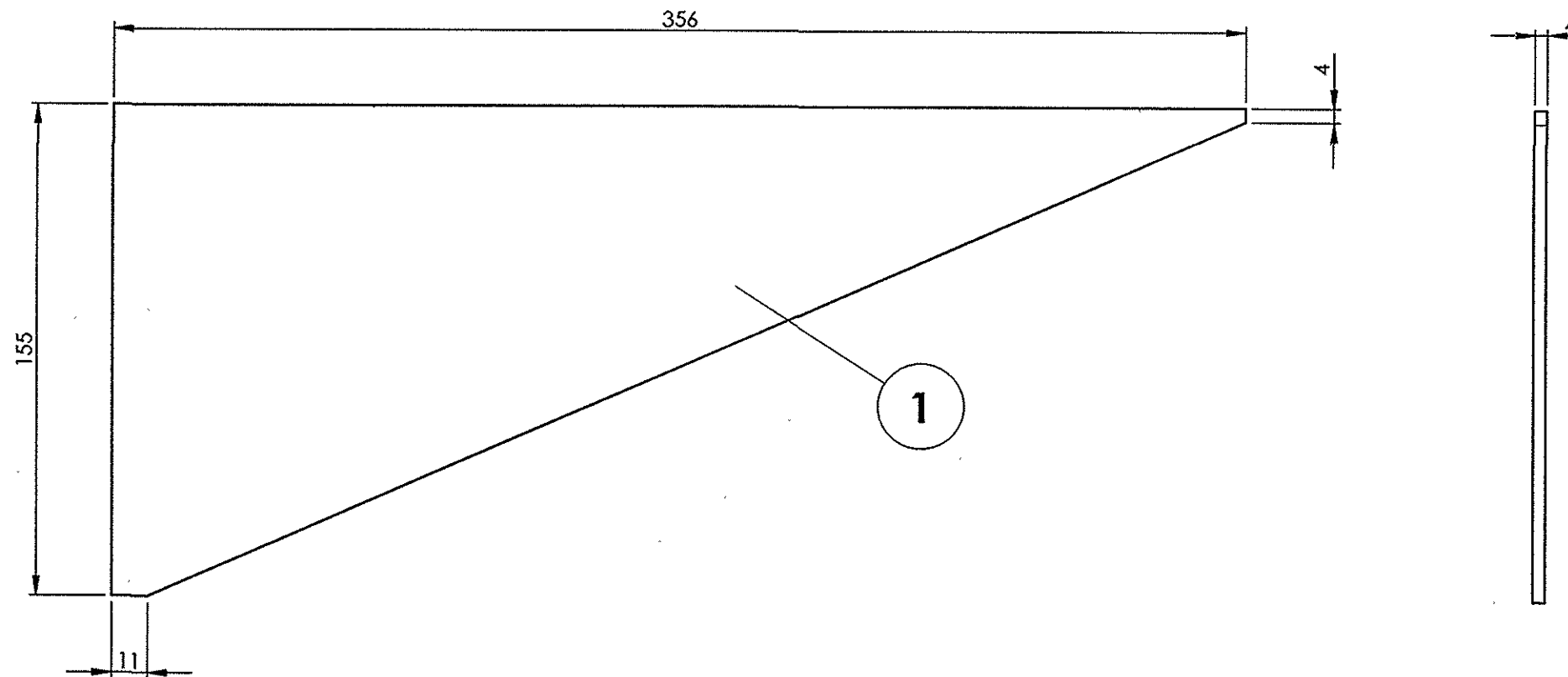
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.

AAA15263

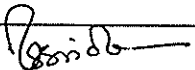

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	⑱ CHAMFERED

REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATERIAL SPEC. ALTD. FROM SS-409M TO RDSO/SPEC. C-K201 X2CrNi12.	<i>ue</i> 21/11



ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.

1	WEB	4x155x356	1		RDSO/SPEC C-K201 X2CrNi12	0.935	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 END CONSTRUCTION		SURFACE AREA IN Sq.m.:0.062			WT/ASSY IN Kgs:0.935		
WEB					SCALE	SSE/D	
					1:2	CHD	
					ALT. a	ALTD	B.SARAVANAN
						DRN	A.Palanichamy & T J K VELU
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1			
					AAA15263		A3

-07-2013	24-12-2009	<i>ue</i> 21/11
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

AAA15264

▽ ROUGH MACHINED

▽▽ FINISH MACHINED

▽▽▽ FINE FINISH MACHINED

① ROUGH CLEANED

② BURRS REMOVED

③ CHAMFERED

REVISIONS

ALT.

ZONE

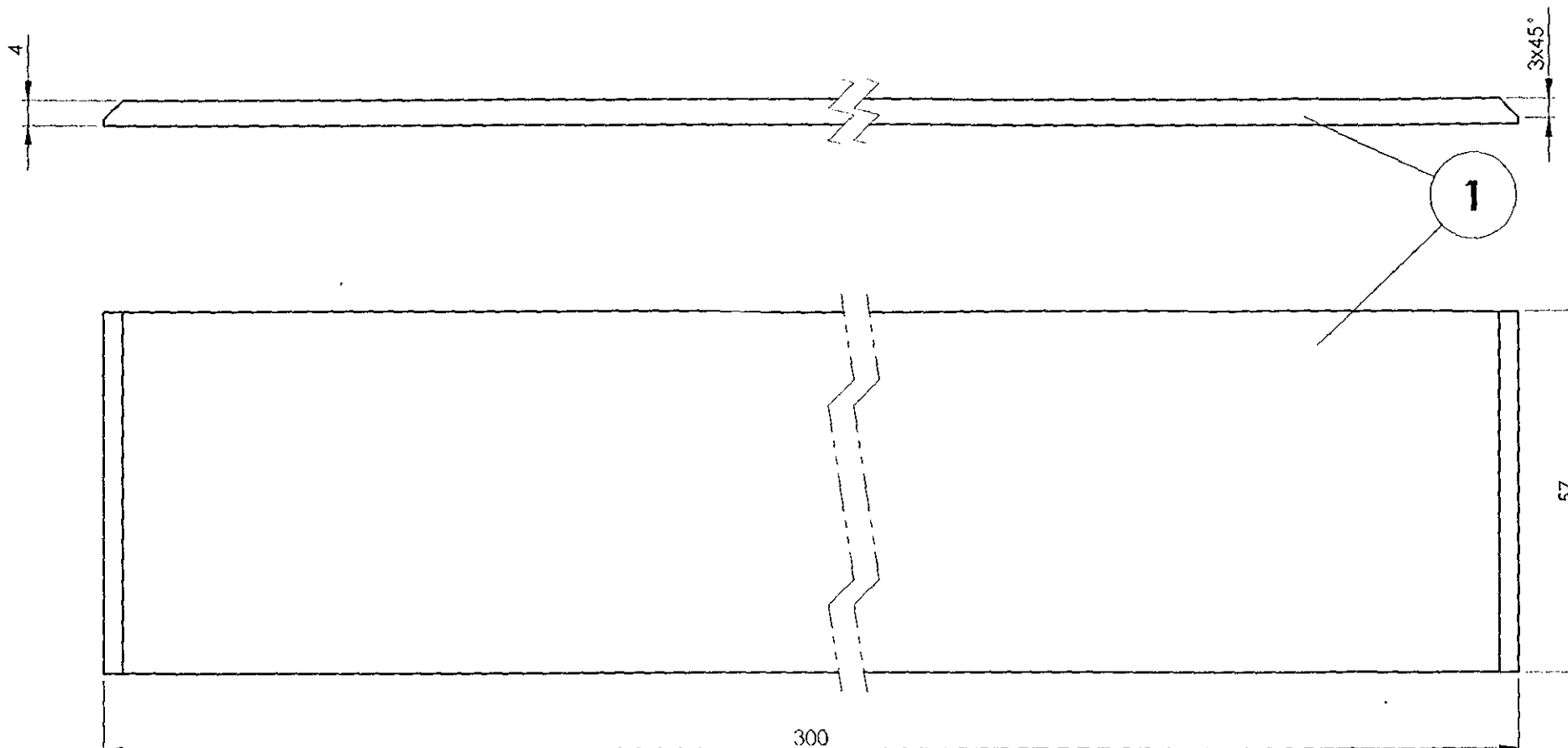
DESCRIPTION

APPROVED &
DATE

a

R.M. LENGTH ALTD. FROM 400 TO 300

10-11-2013



ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS REFER DRAWING NO ICF/STD-9-0-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.

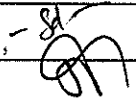
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QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 END CONSTRUCTION		SURFACE AREA IN Sq.m.:0.049		WT/ASSY IN Kgs:0.730			
SHEET					SCALE	SSR/D	B.SARAVANAN A.Palanichamy & T J K
					1:1	CHD	
					ALT.	ALTD	
					a	DRN	
INDIAN RAILWAY STANDARDS					SHEET 1 OF 1		
INTEGRAL COACH FACTORY, CHENNAI - 600038					AAA15264		
DATE OF LATEST ALT. 28-03-2013					A3		
DATE OF FIRST ISSUE 24-12-2009							
SME							

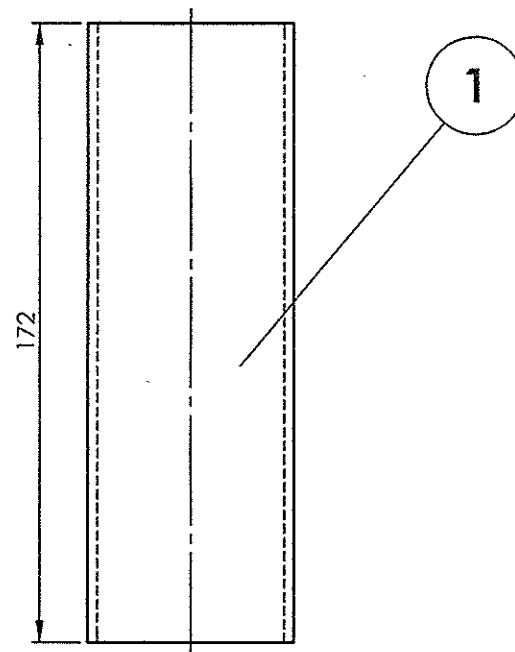
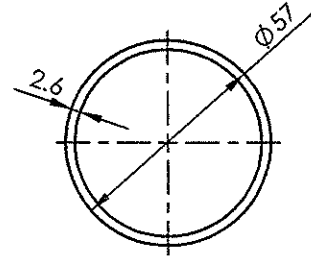
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AAA15277				▽ ROUGH MACHINED		① ROUGH CLEANED		REVISIONS																							
				▽▽ FINISH MACHINED		①b BURRS REMOVED		ALT.		ZONE		DESCRIPTION		APPROVED & DATE																	
				▽▽▽ FINE FINISH MACHINED		⑱ CHAMFERED		a				MATERIAL SPEC REVISED.		19/12																	
<div>ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS REFER DRAWING NO ICF/STD-9-0-001. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.</div> <div><div>2.5</div><div>30</div><div>217.5</div><div>1</div></div>																1		SHEET		2.5x30x217.5		1		RDSO/SPEC C-K201 X2CrNi12		0.130					
																QTY		DESCRIPTION		DIMENSIONS		ITEM NO.		REF. DRGS		MATL.SPEC.		WT/UNIT IN KGS		REMARKS	
																GROUP: 1-5 END CONSTRUCTION					SURFACE AREA IN Sq.m.:0.014					WT/ASSY IN Kgs:0.130					
																SHEET										SCALE		SSE/D		19/12/2009	
																										1:1		CHD			
										ALT.		ALTD		M.S.NETHAJI																	
										a		DRN		A.Palanichamy & T J K VELU.																	
INDIAN RAILWAY STANDARDS										SHEET 1 OF 1		AAA15277		A3																	
INTEGRAL COACH FACTORY, CHENNAI - 600038																															
19-2-18		24-12-2009		P. N																											
DATE OF LATEST ALT.		DATE OF FIRST ISSUE		SME/AME																											

1		2		3		4		5		6		7		8																																																																											
AAA15278				▽ ROUGH MACHINED		① ROUGH CLEANED		REVISIONS																																																																																	
				▽▽ FINISH MACHINED		①b BURRS REMOVED		ALT.		ZONE		DESCRIPTION		APPROVED & DATE																																																																											
				▽▽▽ FINE FINISH MACHINED		①8 CHAMFERED		a				MATERIAL SPEC REVISED.		19/1																																																																											
<div><div>15</div><div>15</div><div>6</div><div>1</div></div>																																																																																									
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS REFER DRAWING NO ICF/STD-9-0-001. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.																																																																																									
<table><tr><td>1</td><td>BACK PIECE</td><td>6x15x15</td><td>1</td><td></td><td>RDSO/SPEC C-K201 X2CrNi12</td><td>0.011</td><td></td></tr><tr><td>QTY</td><td>DESCRIPTION</td><td>DIMENSIONS</td><td>ITEM NO.</td><td>REF. DRGS</td><td>MATL.SPEC.</td><td>WT/UNIT IN KGS</td><td>REMARKS</td></tr><tr><td colspan="4">GROUP: 1-5 END CONSTRUCTION</td><td colspan="2">SURFACE AREA IN Sq.m.:0.001</td><td colspan="2">WT/ASSY IN Kgs:0.011</td></tr><tr><td colspan="5" rowspan="3">BACK PIECE</td><td>SCALE</td><td>SSE/D</td><td rowspan="2">19/2/2010</td></tr><tr><td>5:1</td><td>CHD</td></tr><tr><td>ALT.</td><td>ALTD</td><td>M.S.NETHAJI</td></tr><tr><td>a</td><td>DRN</td><td colspan="5">A.Palanichamy & T J K VELU</td></tr><tr><td colspan="5">INDIAN RAILWAY STANDARDS</td><td colspan="2">SHEET 1 OF 1</td><td rowspan="2">AAA15278</td><td rowspan="2">A3</td></tr><tr><td colspan="5">INTEGRAL COACH FACTORY, CHENNAI - 600038</td></tr><tr><td colspan="2">19-02-2010</td><td colspan="2">26-02-2010</td><td colspan="2">SME</td><td colspan="2"></td></tr><tr><td colspan="2">DATE OF LATEST ALT.</td><td colspan="2">DATE OF FIRST ISSUE</td><td colspan="2"></td><td colspan="2"></td></tr></table>																1	BACK PIECE	6x15x15	1		RDSO/SPEC C-K201 X2CrNi12	0.011		QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS	GROUP: 1-5 END CONSTRUCTION				SURFACE AREA IN Sq.m.:0.001		WT/ASSY IN Kgs:0.011		BACK PIECE					SCALE	SSE/D	19/2/2010	5:1	CHD	ALT.	ALTD	M.S.NETHAJI	a	DRN	A.Palanichamy & T J K VELU					INDIAN RAILWAY STANDARDS					SHEET 1 OF 1		AAA15278	A3	INTEGRAL COACH FACTORY, CHENNAI - 600038					19-02-2010		26-02-2010		SME				DATE OF LATEST ALT.		DATE OF FIRST ISSUE					
1	BACK PIECE	6x15x15	1		RDSO/SPEC C-K201 X2CrNi12	0.011																																																																																			
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS																																																																																		
GROUP: 1-5 END CONSTRUCTION				SURFACE AREA IN Sq.m.:0.001		WT/ASSY IN Kgs:0.011																																																																																			
BACK PIECE					SCALE	SSE/D	19/2/2010																																																																																		
					5:1	CHD																																																																																			
					ALT.	ALTD	M.S.NETHAJI																																																																																		
a	DRN	A.Palanichamy & T J K VELU																																																																																							
INDIAN RAILWAY STANDARDS					SHEET 1 OF 1		AAA15278	A3																																																																																	
INTEGRAL COACH FACTORY, CHENNAI - 600038																																																																																									
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DATE OF LATEST ALT.		DATE OF FIRST ISSUE																																																																																							
1		2		3		4		5		6		7		8																																																																											

AAA15287

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	② BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	③ CHAMFERED

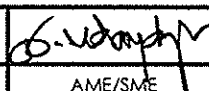
REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATERIAL SPEC. ALTD. FROM SS-409M TO IS:6913-'73 Tab-1 Gr-'B'	
b		NOTE ADDED	

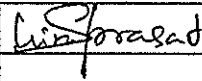
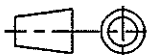
**NOTE:**

1. ALTERNATIVELY AISI-304 IS ACCEPTABLE

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813 1986.


REF.DRG.NO.3.10113.0.26.120.034 ITEM-2

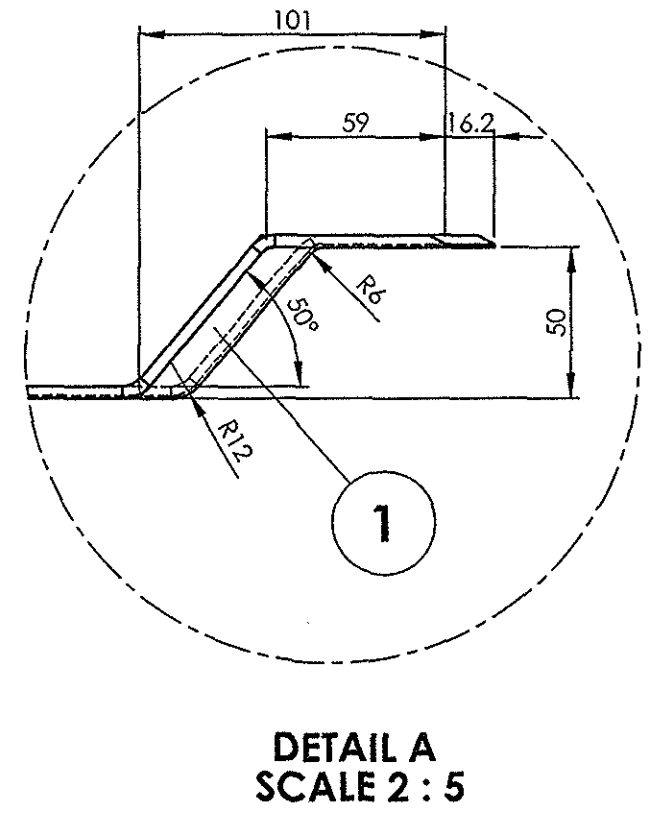
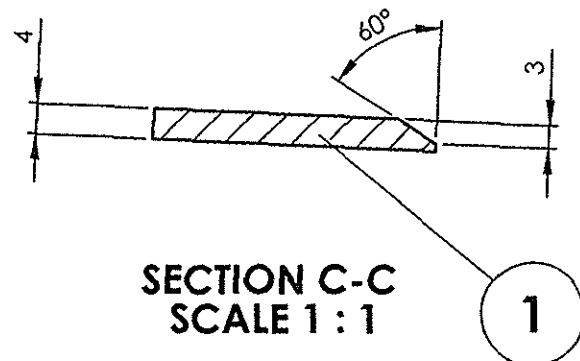
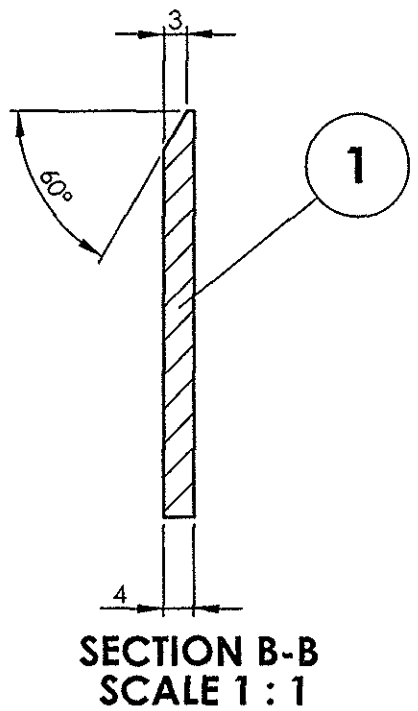
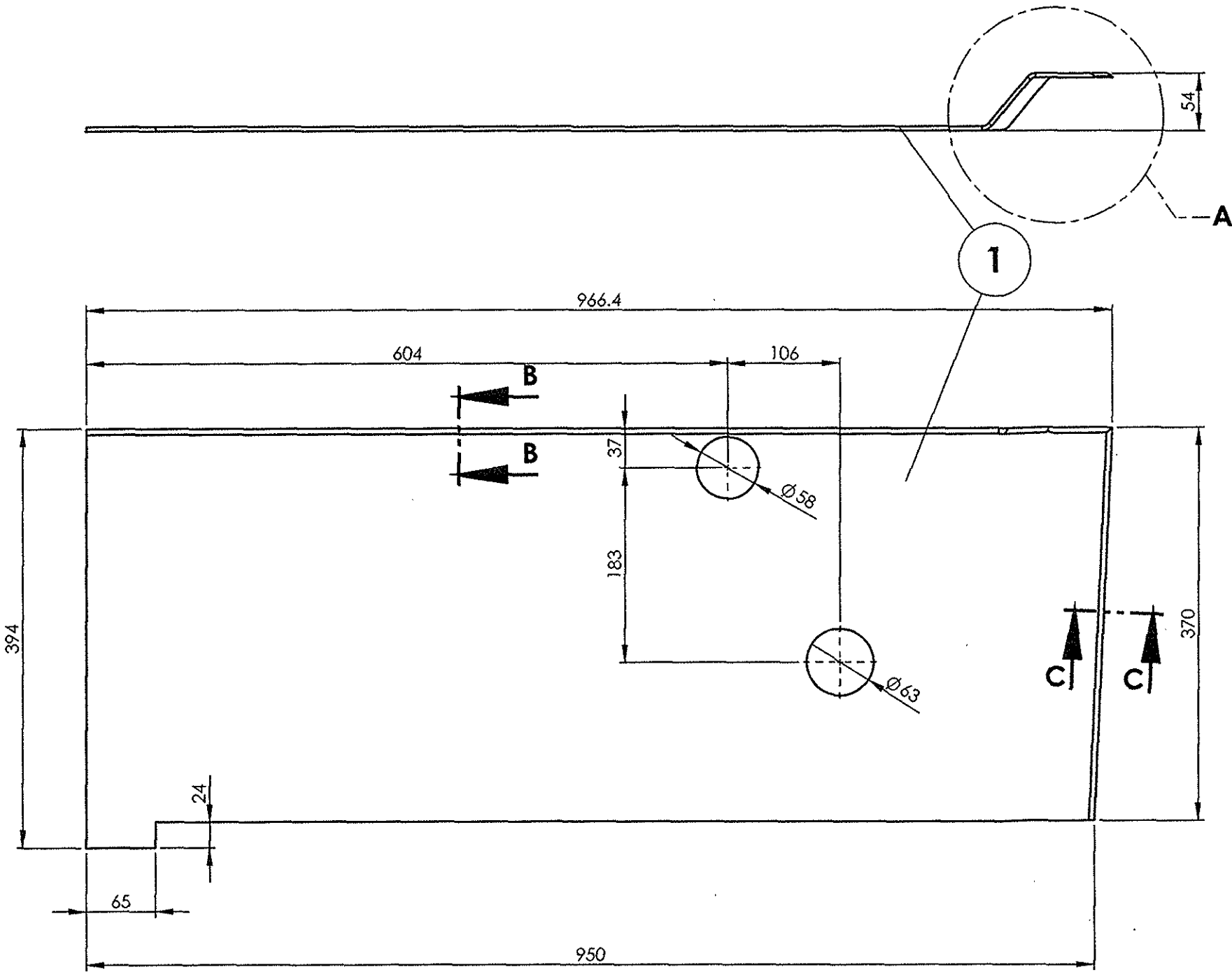
27-07-2017	26-02-2010	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

1	PIPE	O.D 57x2.6x172	1		IS:6913-'73 Tab-1 Gr-'B'	0.600	WELDED TUBES
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5			SURFACE AREA IN Sq.m.:0.059		WT/ASSY IN Kgs:0.678		
PIPE					SCALE	SSE/D	
					1:2	CHD	
					ALT. b	ALTD	ANU C
						DRN	D.MOSES & T J K VELU
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1			
						AAA15287	
INTEGRAL COACH FACTORY, CHENNAI - 600038						A3	

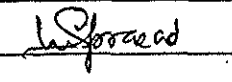
AAA15412


▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	② BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	③ CHAMFERED

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
Q		Ø 63 HOLE ADDED.	



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1	FLANGE L.H	4x394x988	1		RDSO/SPEC C- K201 X2 Cr Ni 12	11.391	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 END CONSTRUCTION				SURFACE AREA IN Sq.m.: 0.727		WT/ASSY IN Kgs: 11.491	
FLANGE L.H					SCALE 1:5	SSE/D	
						CHD	
					ALT a	ALTD	R.Vijay Rathinam
						DRN	B.SARAVANAN
INDIAN RAILWAY STANDARDS					SHEET 1 OF 1		
INTEGRAL COACH FACTORY, CHENNAI - 600038					AAA15412 A2		

	-03-2013	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

REF.DRG.NO.2 10113_0_20_120_119_ER2