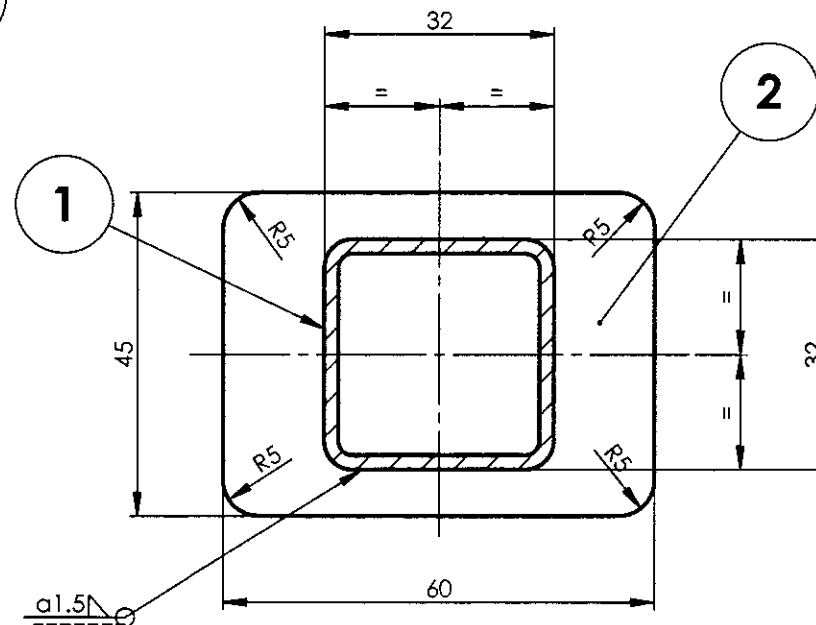
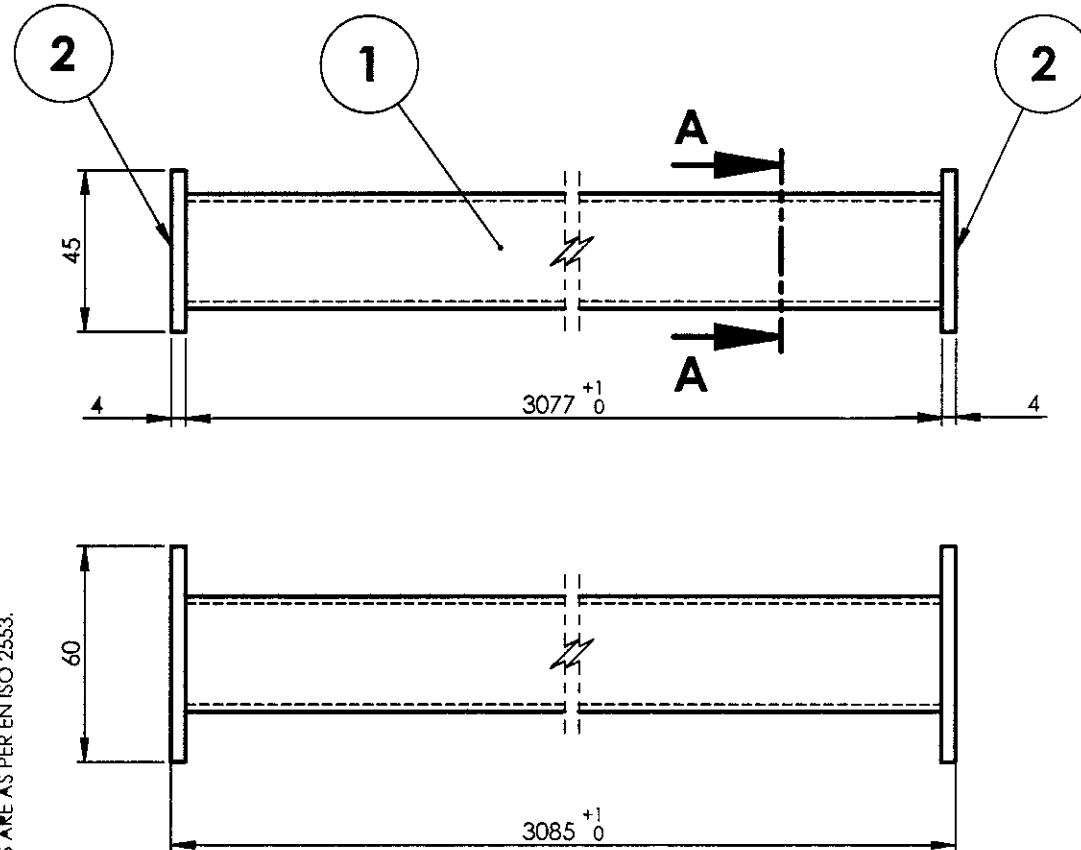


32916089

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE

SECTION A-A
SCALE 1 : 1

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 WELDINGS SHALL BE TIG WELDING UNLESS OTHERWISE SPECIFIED.
3. ALL WELD SPATTERS SHALL BE GROUND.
4. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
5. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
6. ALL WELD PERFORMANCE CLASS SHALL BE **CP C2** UNLESS OTHERWISE SPECIFIED.
7. FOR WELD TESTING PREFERANCES REFER DRG. No. ICF/STD-9-0-998.
8. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.

2	PLATE	4 x 45x 60	2		RDSO SPEC C-K201 X2 Cr Ni 12	0.09	
1	SQ. TUBE 2 x 32 x 32	L = 3077	1		RDSO SPEC C-K201 X2 Cr Ni 12	5.65	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATERIAL	Weight/Unit in Kgs	REMARKS

GROUP: 1-6 Roof Construction

SURFACE AREA IN Sq.m.:0.72

WT/ASSY IN Kgs:

SUPPORT ASSEMBLY FOR END ROOF

SCALE 1:2	SSE/D CHD	Amal George
ALT.	ALTD DRN	

ICF/SK3

INDIAN RAILWAY STANDARDS

INTEGRAL COACH FACTORY, CHENNAI - 600038

SHEET
1 OF 1

32916089

A3

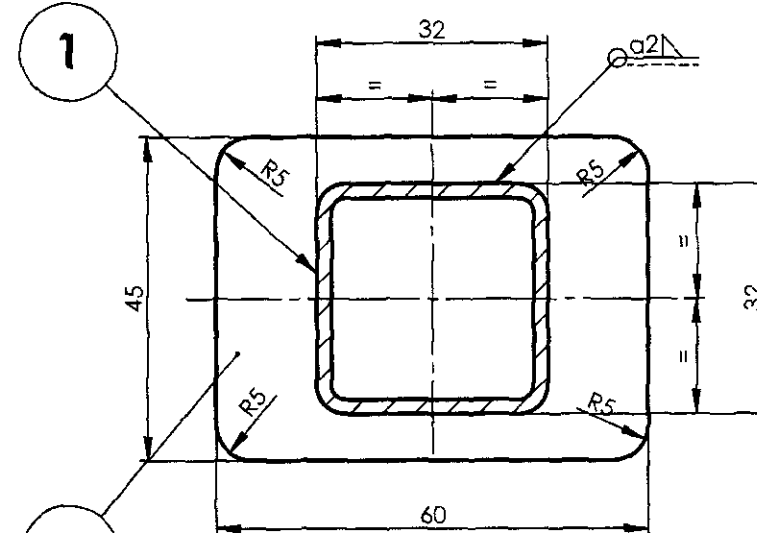
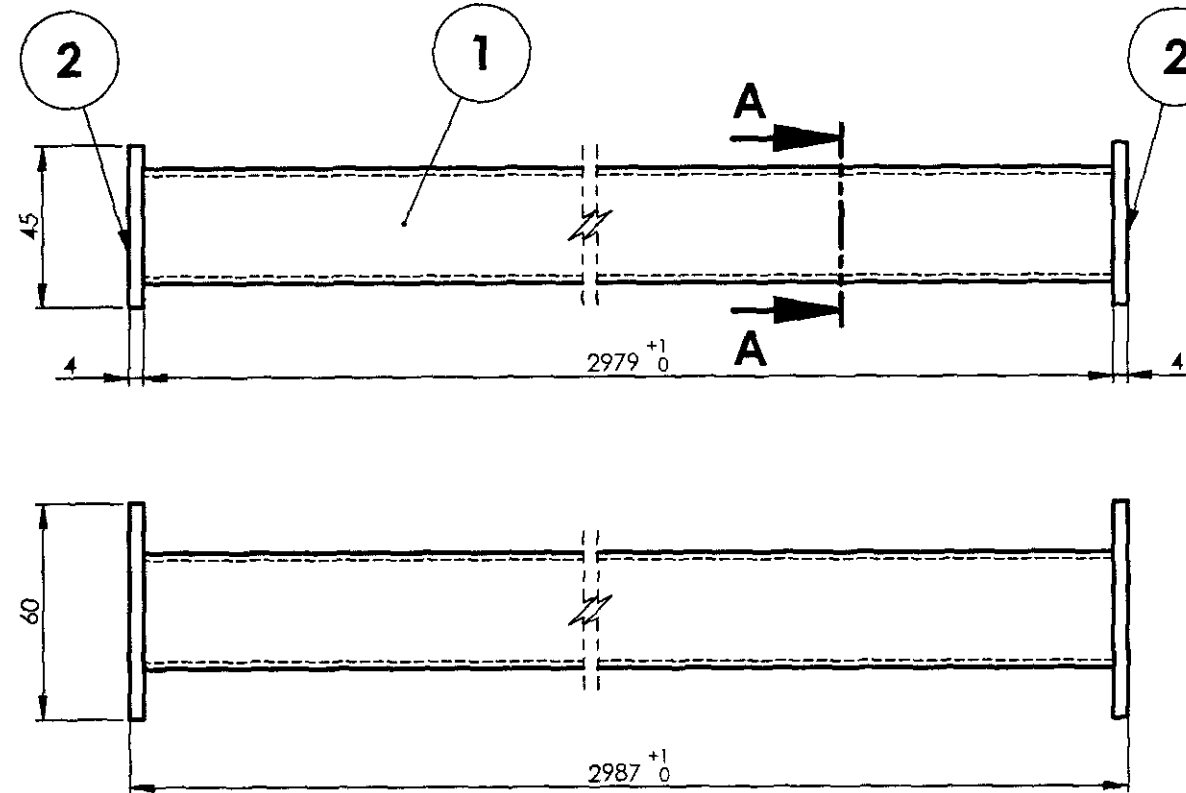
REF.DRG.NO.-

-	17-06-2023	15/6/23
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

32916090

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

REVISIONS				APPROVED & DATE	
ALT.	ZONE	DESCRIPTION			

SECTION A-A
SCALE 1 : 1

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 WELDINGS SHALL BE TIG WELDING UNLESS OTHERWISE SPECIFIED.
3. ALL WELD SPATTERS SHALL BE GROUND.
4. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
5. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
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.

2	PLATE	4 x 45 x 60	2		RDSO SPEC C-K201 X2 Cr Ni 12	0.09	
1	SQ. TUBE 2 x 32 x 32	L=2979	1		RDSO SPEC C-K201 X2 Cr Ni 12	5.47	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATERIAL	Weight/Unit In Kgs	REMARKS
GROUP: 1-6 Roof Construction				SURFACE AREA IN Sq.m.:0.7		WT/ASSY IN Kgs:	
SUPPORT ASSEMBLY FOR END ROOF					SCALE	SSE/D	18/06/23
					1:20	CHD	
					ALT.	ALTD	
						DRN	Amal George
INDIAN RAILWAY STANDARDS					ICF/SK3		
INTEGRAL COACH FACTORY, CHENNAI - 600038					SHEET 1 OF 1		
					32916090		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 EN ISO 2553. WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

REF.DRG.NO.-

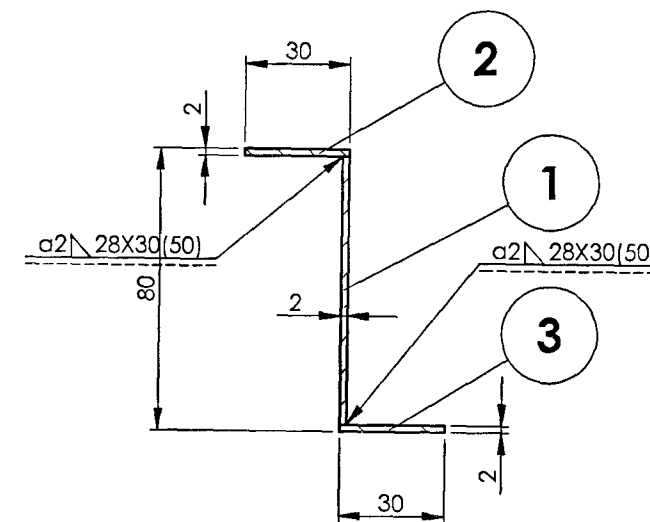
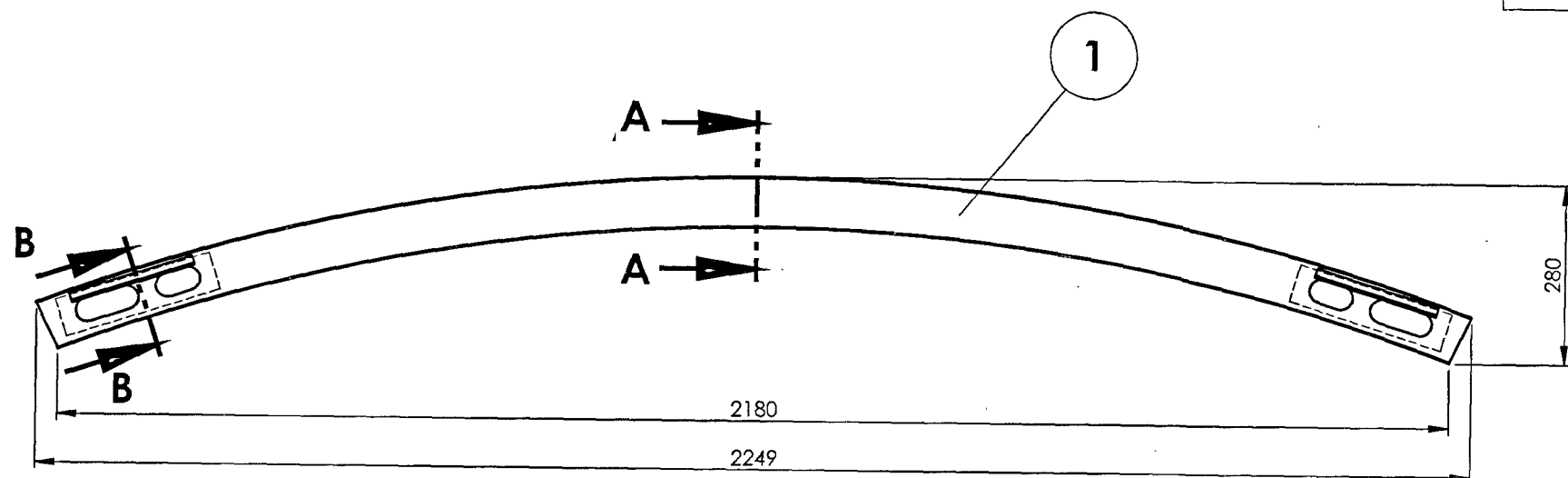
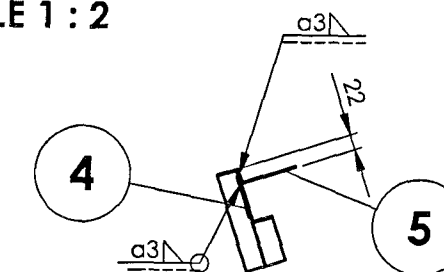
-	17-06-2023	15/6/23
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

58116056

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

REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		NOTE - 6 DELETED.	-sd-
b		ITEMS-4,5 AND SECTION VIEW-BB ADDED. WELDING SYMBOL REVISED.	-sd-
c		LOCATING DIMENSION OF ITEM- 5 ALTD FROM 25 TO 22 AND NOTES-7,8 & 9 ADDED.	<i>Kunti Thakur</i>

SECTION A-A
SCALE 1 : 2

SECTION B-B

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. ALL WELD PERFORMANCE CLASS SHALL BE CP C2 UNLESS OTHERWISE SPECIFIED.
8. FOR WELD TESTING PREFERANCES REFER DRG. No. ICF/STD-9-0-998.
9. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.

2	ANGLE		5	AAB16917		0.28	
2	BACK PIECE		4	AAB16916		0.15	
1	BOTTOM FLANGE		3	AAA16963		1.070	
1	TOP FLANGE		2	AAA16962		1.104	
1	MIDDLE FLANGE		1	AAA16961		2.575	
Default	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS

GROUP: 1-6 Roof Construction

SURFACE AREA IN Sq.m.:0.738

WT/ASSY IN Kgs:

CARLINE-1

SCALE	SSE/D	<i>Kunti Thakur</i>
1:10	CHD	
ALT. c	ALTD	Kunti Thakur
	DRN	B.Suresh

INDIAN RAILWAY STANDARDS

INTEGRAL COACH FACTORY, CHENNAI - 600038

SHEET
1 OF 1

LGS/EOG

58116056

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.
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

REF.DRG.NO.LG10192_a

19-12-2020

DATE OF LATEST ALT.

13-08-2013

DATE OF FIRST ISSUE

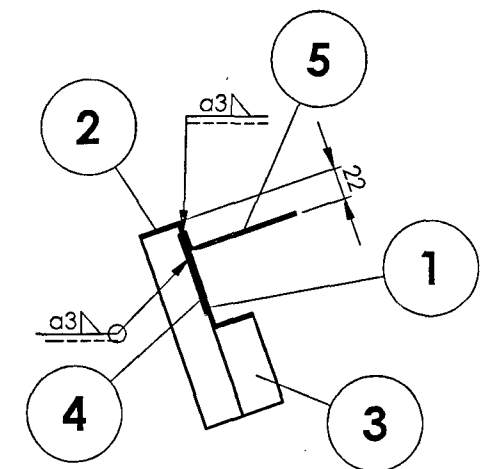
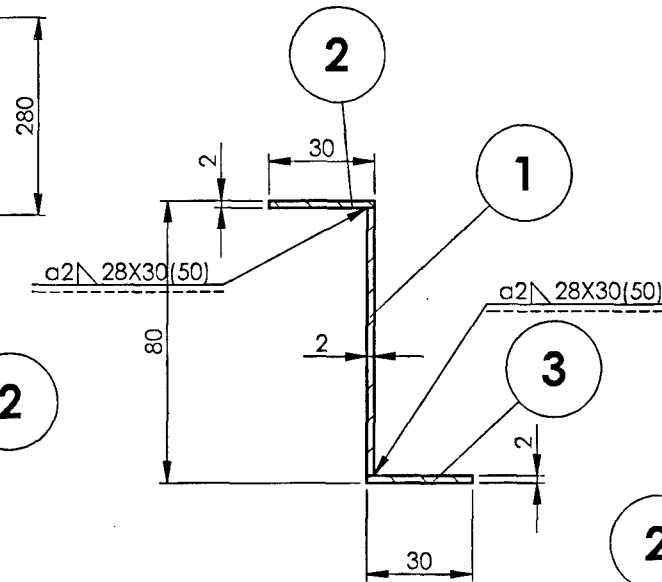
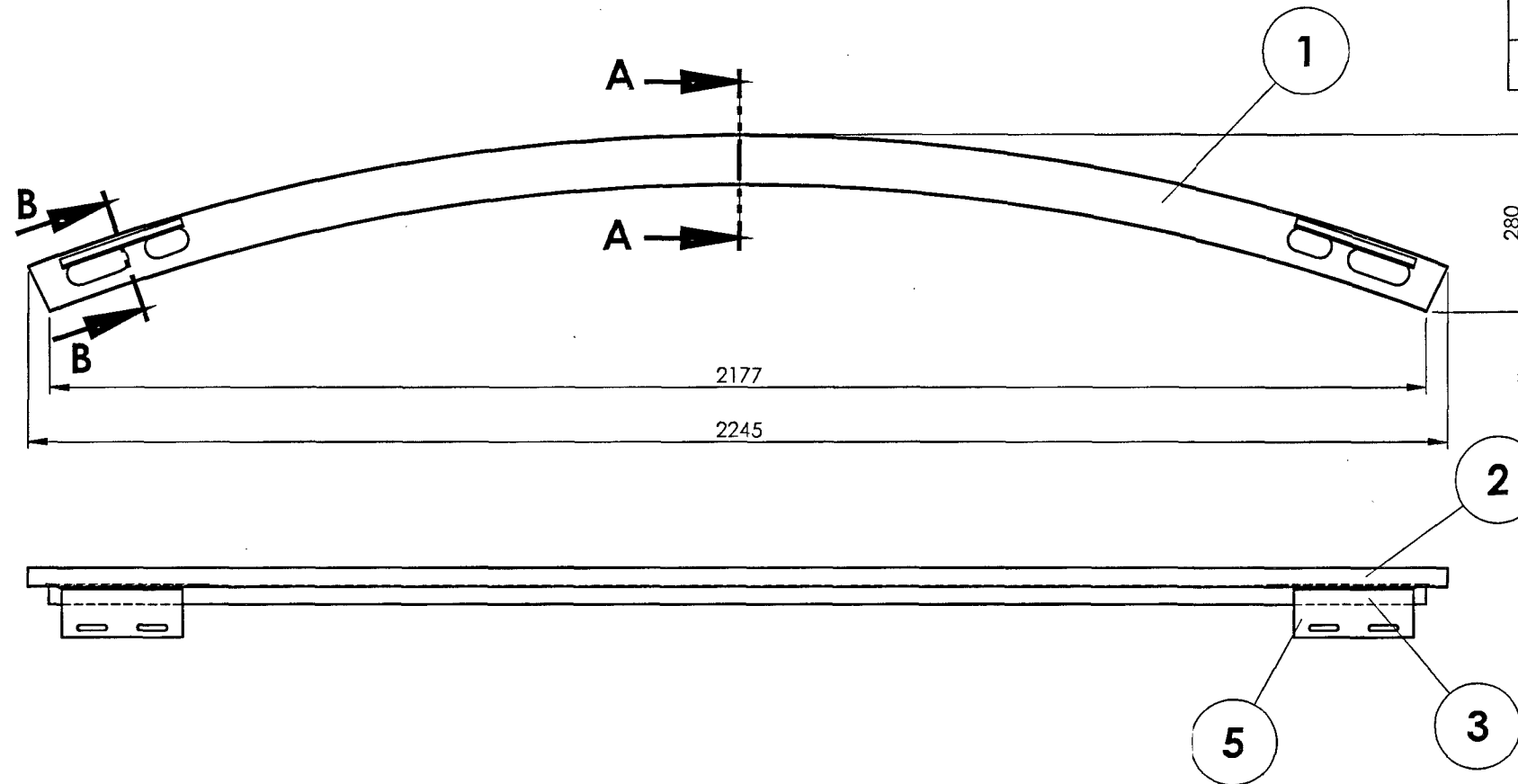
AME/SME

58116057

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

REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		NOTE - 6 DELETED.	-sd-
b		ITEMS-4,5 AND SECTION VIEW-BB ADDED. WELDING SYMBOL REVISED.	-sd-
c		LOCATING DIMENSION OF ITEM-5 AND NOTES-7,8 & 9 ADDED.	<i>[Signature]</i> 11/11/20



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. ALL WELD PERFORMANCE CLASS SHALL BE CP C2 UNLESS OTHERWISE SPECIFIED.
8. FOR WELD TESTING PREFERANCES REFER DRG. No. ICF/STD-9-0-998.
9. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.

2	ANGLE		5	AAB16917		0.28	
2	BACK PIECE		4	AAB16916		0.15	
1	BOTTOM FLANGE		3	AAA16966		1.068	
1	TOP FLANGE		2	AAA16965		1.101	
1	MIDDLE FLANGE		1	AAA16964		2.570	
Default	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS

GROUP: 1-6 Roof Construction

SURFACE AREA IN Sq.m.: 0.737

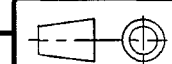
WT/ASSY IN Kgs:

CARLINE-2

SCALE
1:10SSE/D
CHDALT.
cALTD
DRNKunti Thakur
B.Suresh

INDIAN RAILWAY STANDARDS

INTEGRAL COACH FACTORY, CHENNAI - 600038

SHEET
1 OF 1

LGS/EOG

58116057

A3

REF.DRG.NO.LG10193_a

12-12-2020

13-08-2013

DATE OF LATEST ALT.

DATE OF FIRST ISSUE

AME/SME

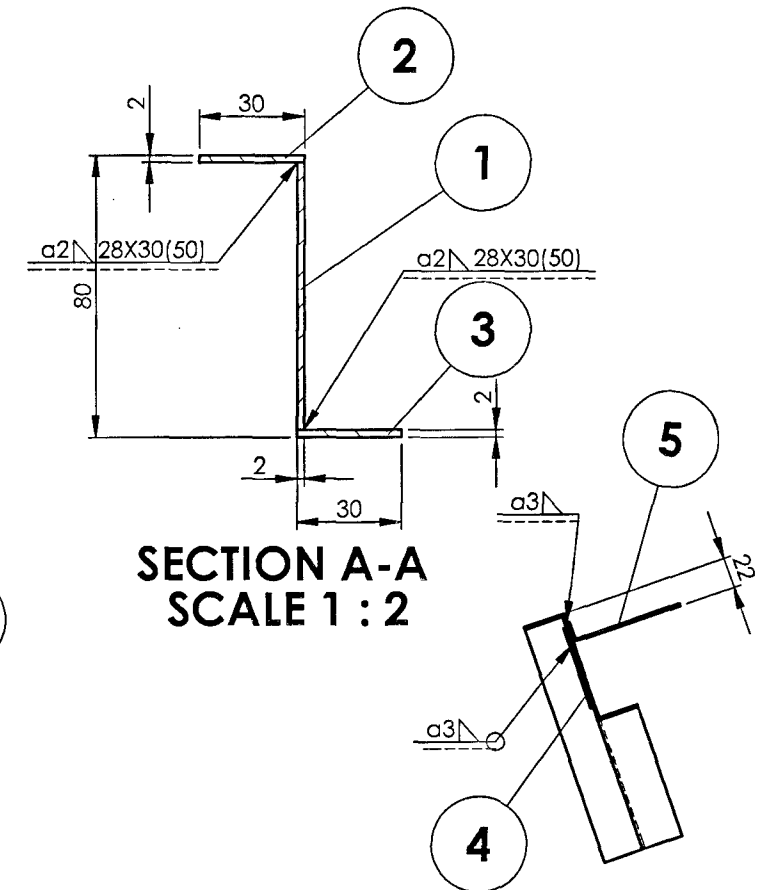
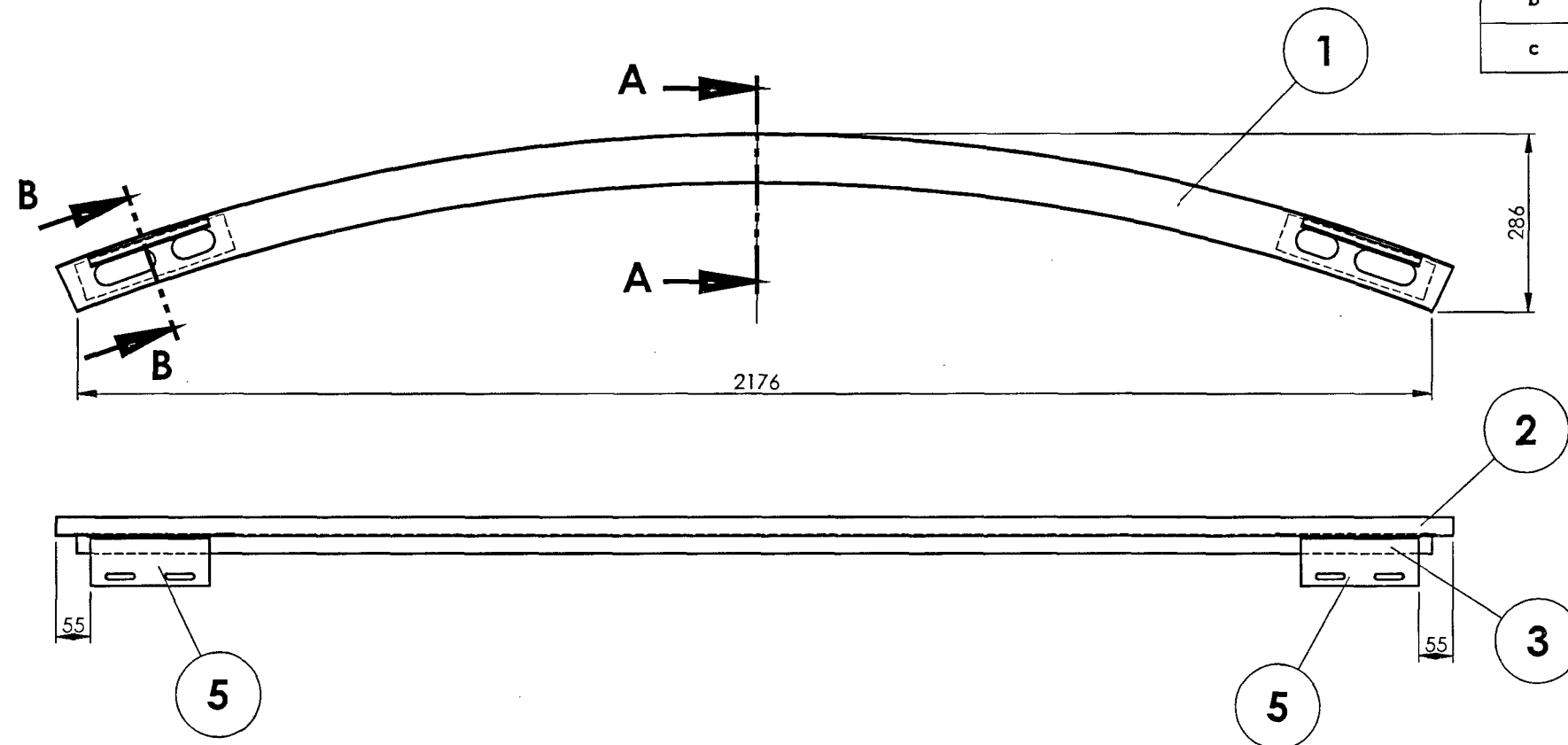
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

58116058

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

REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		NOTE - 6 DELETED.	-sd-
b		ITEMS-4,5 AND SECTION VIEW-BB ADDED. WELDING SYMBOL REVISED.	-sd-
c		LOCATING DIMENSION OF ITEM-5 AND NOTES-7,8 & 9 ADDED.	M. 11/11/20

SECTION A-A
SCALE 1 : 2SECTION B-B
SCALE 1 : 5

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. ALL WELD PERFORMANCE CLASS SHALL BE CP C2 UNLESS OTHERWISE SPECIFIED.
8. FOR WELD TESTING PREFERENCES REFER DRG. No. ICF/STD-9-0-998.
9. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.

2	ANGLE		5	AAB16917		0.28	
2	BACK PIECE		4	AAB16916		0.15	
1	BOTTOM FLANGE		3	AAA16969		1.070	
1	TOP FLANGE		2	AAA16968		1.103	
1	MIDDLE FLANGE		1	AAA16967		2.574	
Default	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS

GROUP: 1-6 Roof Construction

SURFACE AREA IN Sq.m.: 0.738

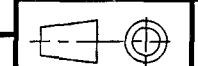
WT/ASSY IN Kgs:

CARLINE

SCALE
1:50SSE/D
CHDALT.
cALTD
DRNKunti Thakur
B.Suresh

INDIAN RAILWAY STANDARDS

INTEGRAL COACH FACTORY, CHENNAI - 600038

SHEET
1 OF 1

LGS/EOG

58116058

A3

12-12-2020

13-08-2013

DATE OF LATEST ALT.

DATE OF FIRST ISSUE

AME/SME

REF.DRG.NO.LG10194_a

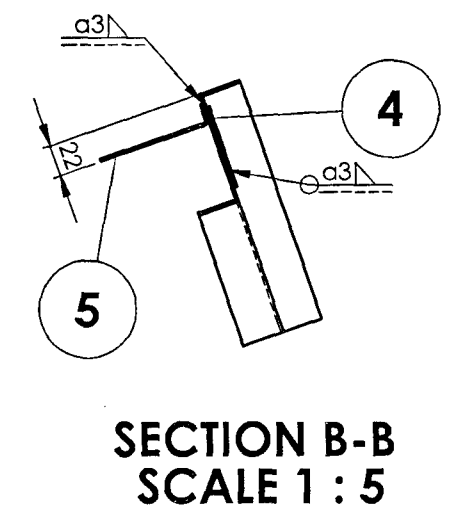
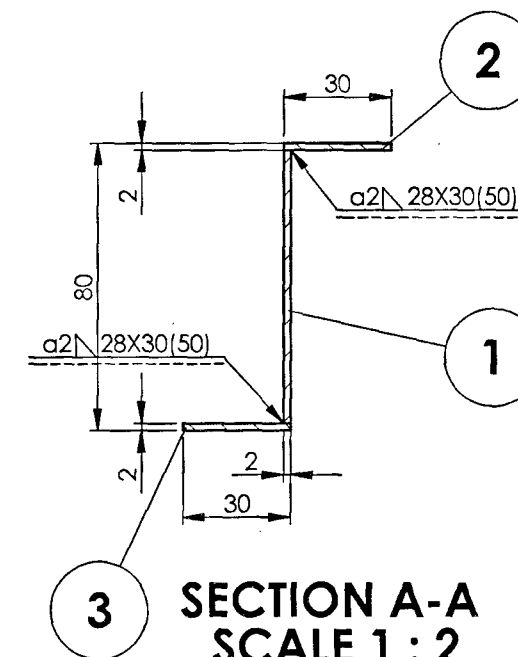
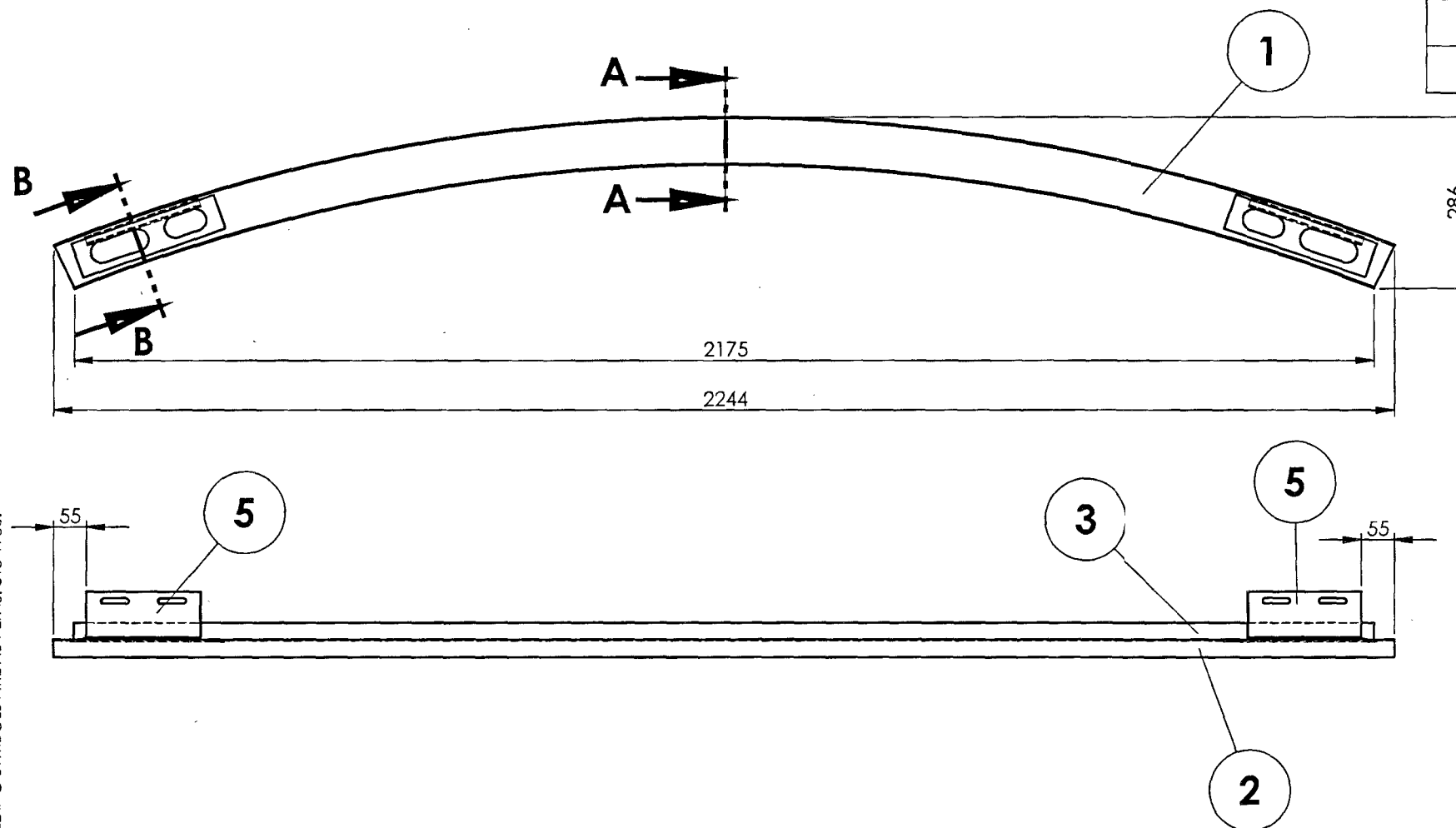
58116059

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

① ROUGH CLEANED
①b BURRS REMOVED
①8 CHAMFERED

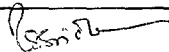
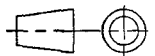
REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		NOTE-6 DELETED.	-sd-
b		ITEMS-4,5 AND SECTION VIEW-BB ADDED. WELDING SYMBOL REVISED.	-sd-
c		LOCATING DIMENSION OF ITEM-5 AND NOTES- 7,8 & 9 ADDED.	11/11/20



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. ALL WELD PERFORMANCE CLASS SHALL BE CP C2 UNLESS OTHERWISE SPECIFIED.
8. FOR WELD TESTING PREFERANCES REFER DRG. No. ICF/STD-9-0-998.
9. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.

2	ANGLE		5	AAB16917		0.28	
2	BACK PIECE		4	AAB16916		0.15	
1	BOTTOM FLANGE		3	AAA16972		1.069	
1	TOP FLANGE		2	AAA16970		1.103	
1	MIDDLE FLANGE		1	AAA16971		2.573	
Default	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS
GROUP: 1-6 Roof Construction		SURFACE AREA IN Sq.m.:0.738		WT/ASSY IN Kgs:			
CARLINE				SCALE	SSE/D		
				1:10	CHD		
				ALT. c	ALTD	Kunti Thakur	
					DRN	B.Suresh	
INDIAN RAILWAY STANDARDS						LGS/EOG	
INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1		58116059	
						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.
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

REF.DRG.NO.LG10206_a

12-12-2020

13-08-2015

DATE OF LATEST ALT.

DATE OF FIRST ISSUE

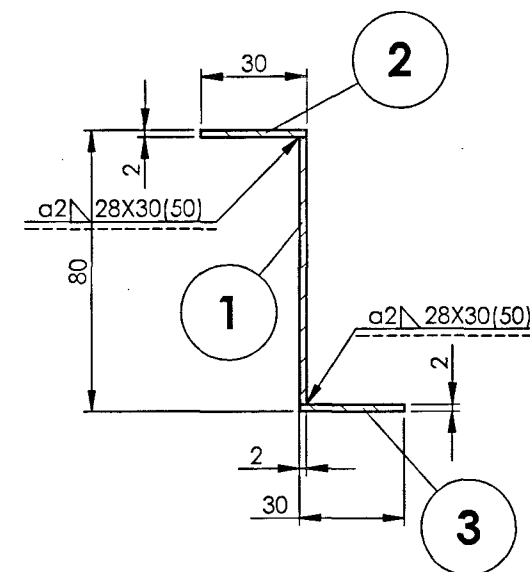
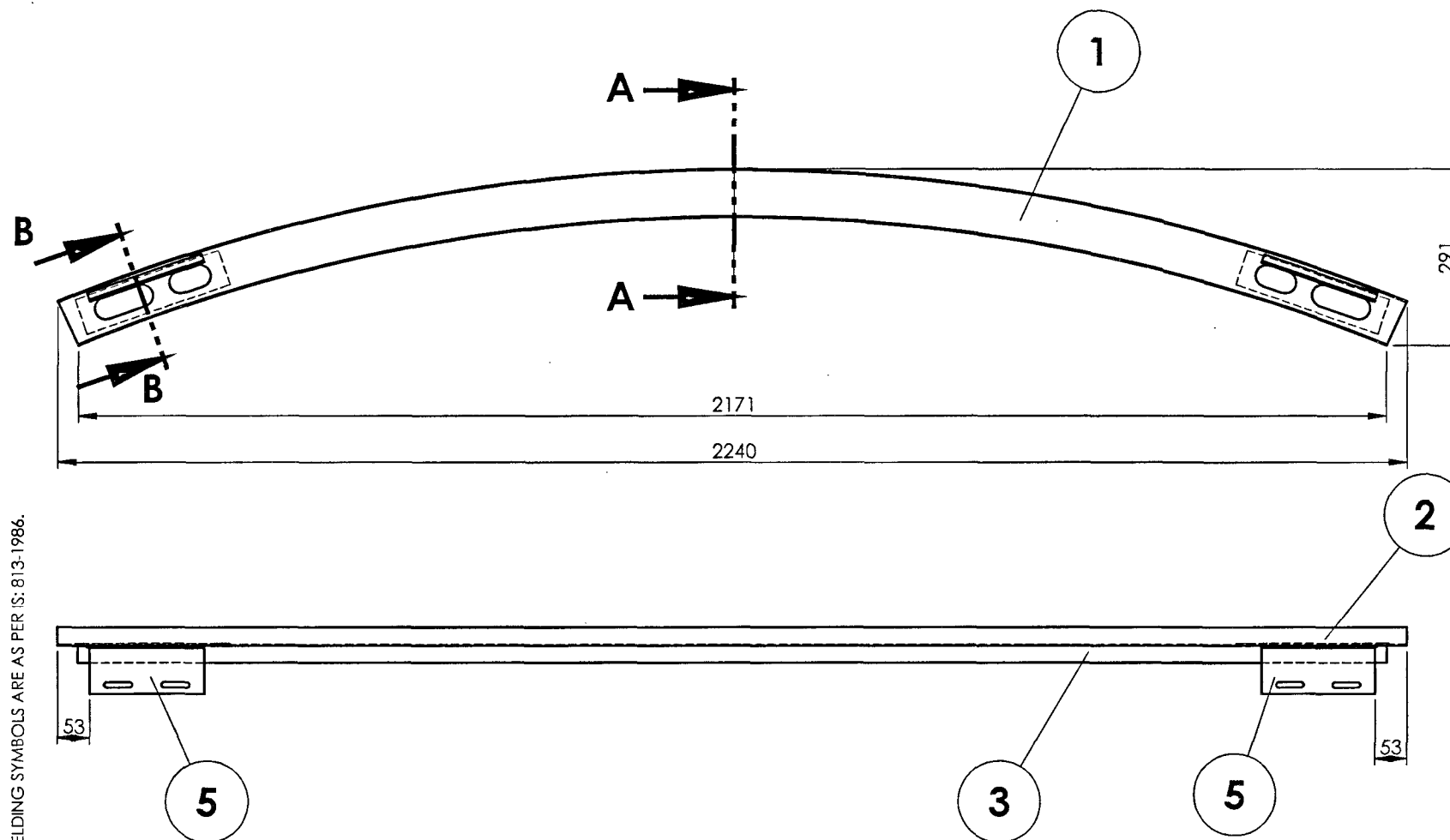
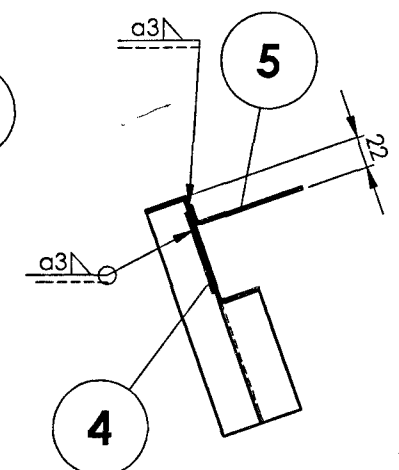
AME/SME

58116060

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

REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		NOTE-1 TO 5 ADDED.	-Sd-
b		ITEM-4,5 AND SECTION VIEW-BB ADDED. WELDING SYMBOL REVISED.	-sd-
c		LOCATING DIMENSION OF ITEM-5 AND NOTES- 6,7 & 8 ADDED.	<i>[Signature]</i>

SECTION A-A
SCALE 1 : 2SECTION B-B
SCALE 1 : 5

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 PREFERANCES REFER DRG. No. ICF/STD-9-0-998.
8. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.

2	ANGLE		5	AAB16917		0.28	
2	BACK PIECE		4	AAB16916		0.15	
1	MIDDLE FLANGE		3	AAA16975		1.069	
1	TOP FLANGE		2	AAA16974		1.102	
1	MIDDLE FLANGE		1	AAA16973		2.571	
Default	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS

GROUP: 1-6

SURFACE AREA IN Sq.m.:0.737

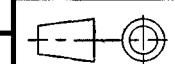
WT/ASSY IN Kgs:

CARLINE-5

SCALE
1:50SSE/D
CHDALT.
cALTD
DRNKunti Thakur
B.Suresh

INDIAN RAILWAY STANDARDS

INTEGRAL COACH FACTORY, CHENNAI - 600038

SHEET
1 OF 1

LGS/EOG

58116060

A3

REF.DRG.NO.LG10207_a

12-12-2020

13-08-2013

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.
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

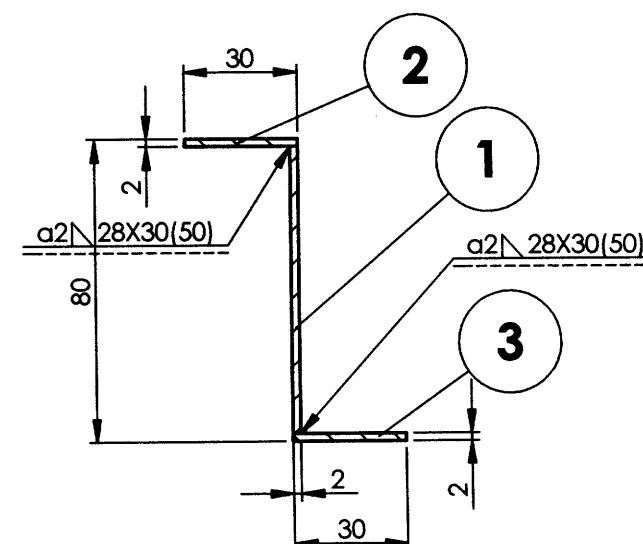
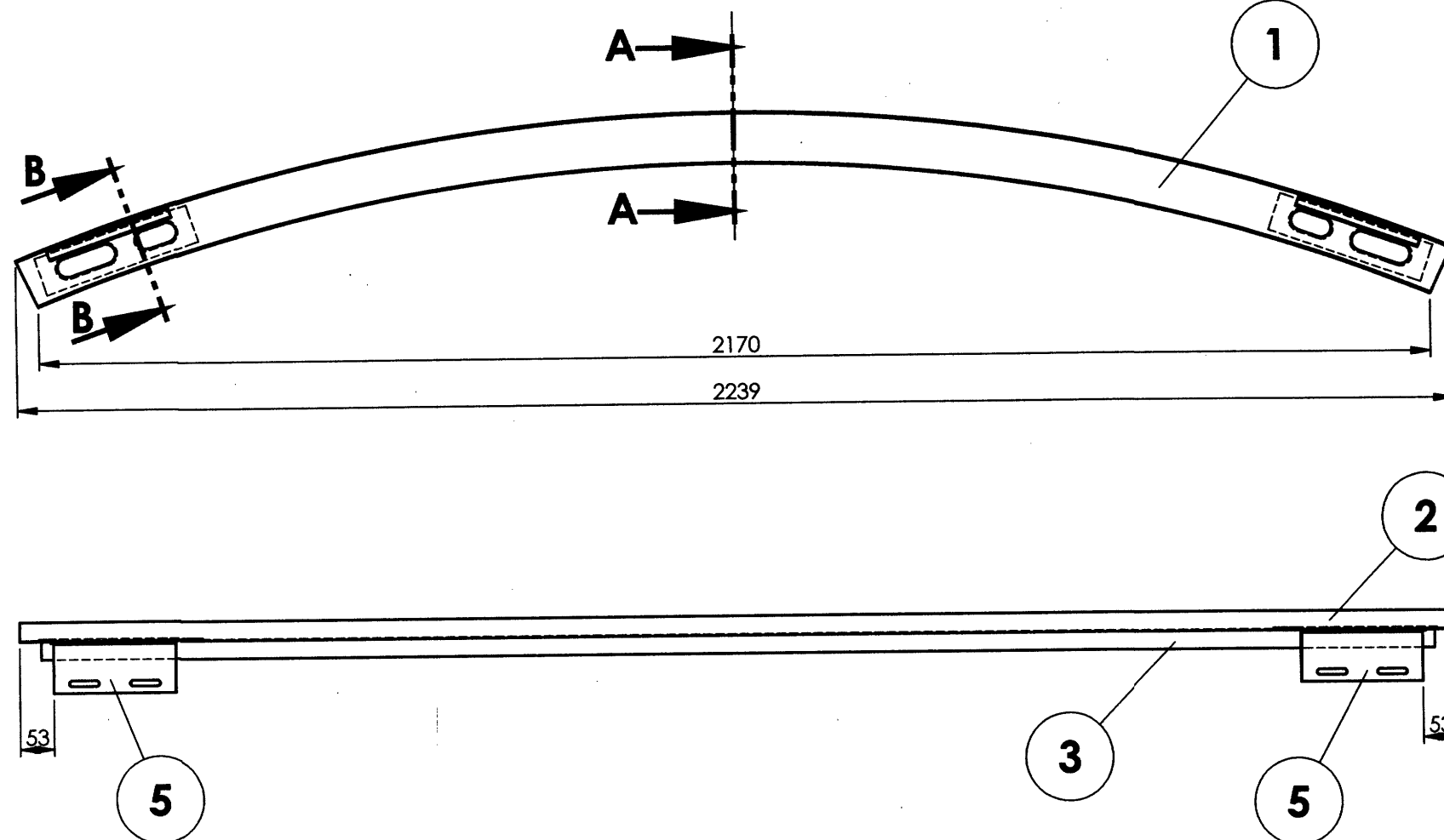
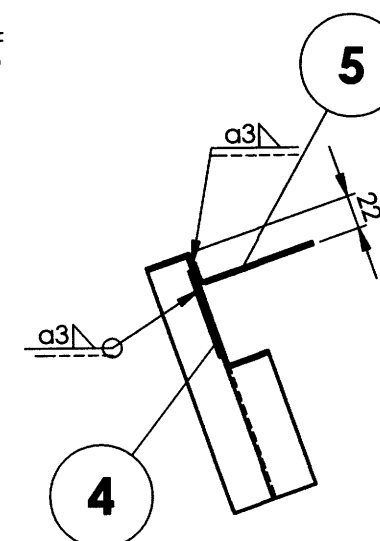
58116061

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

① ROUGH CLEANED
①b BURRS REMOVED
⑱ CHAMFERED

REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		NOTE-6 DELETED.	-Sd-
b		ITEMS-4,5 AND SECTION VIEW-BB ADDED. WELDING SYMBOL REVISED.	-Sd-
c		LOCATING DIMENSION OF ITEM-5 AND NOTE-7,8 & 9 ADDED.	3/12/20

SECTION A-A
SCALE 1:2SECTION B-B
SCALE 1:5

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. ALL WELD PERFORMANCE CLASS SHALL BE CP C2 UNLESS OTHERWISE SPECIFIED.
8. FOR WELD TESTING PREFERANCES REFER DRG. No. ICF/STD-9-0-998.
9. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.

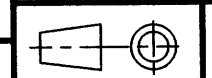
Default	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS
2	ANGLE		5	AAB16917		0.28	
2	BACK PIECE		4	AAB16916		0.15	
1	BOTTOM FLANGE		3	AAA16976		1.068	
1	TOP FLANGE		2	AAA16977		1.102	
1	MIDDLE FLANGE		1	AAA16978		2.610	

GROUP: 1-6 Roof Construction

SURFACE AREA IN Sq.m.:0.742

WT/ASSY IN Kgs:

CARLINE-6

SCALE
1:50SSE/D
CHDALT.
cALTD
DRNKunti Thakur
B.Suresh

LGS/EOG

INDIAN RAILWAY STANDARDS

INTEGRAL COACH FACTORY, CHENNAI - 600038

SHEET
1 OF 1

58116061

A3

02-12-2020

13-08-2013

DATE OF LATEST ALT.

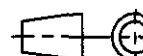
DATE OF FIRST ISSUE

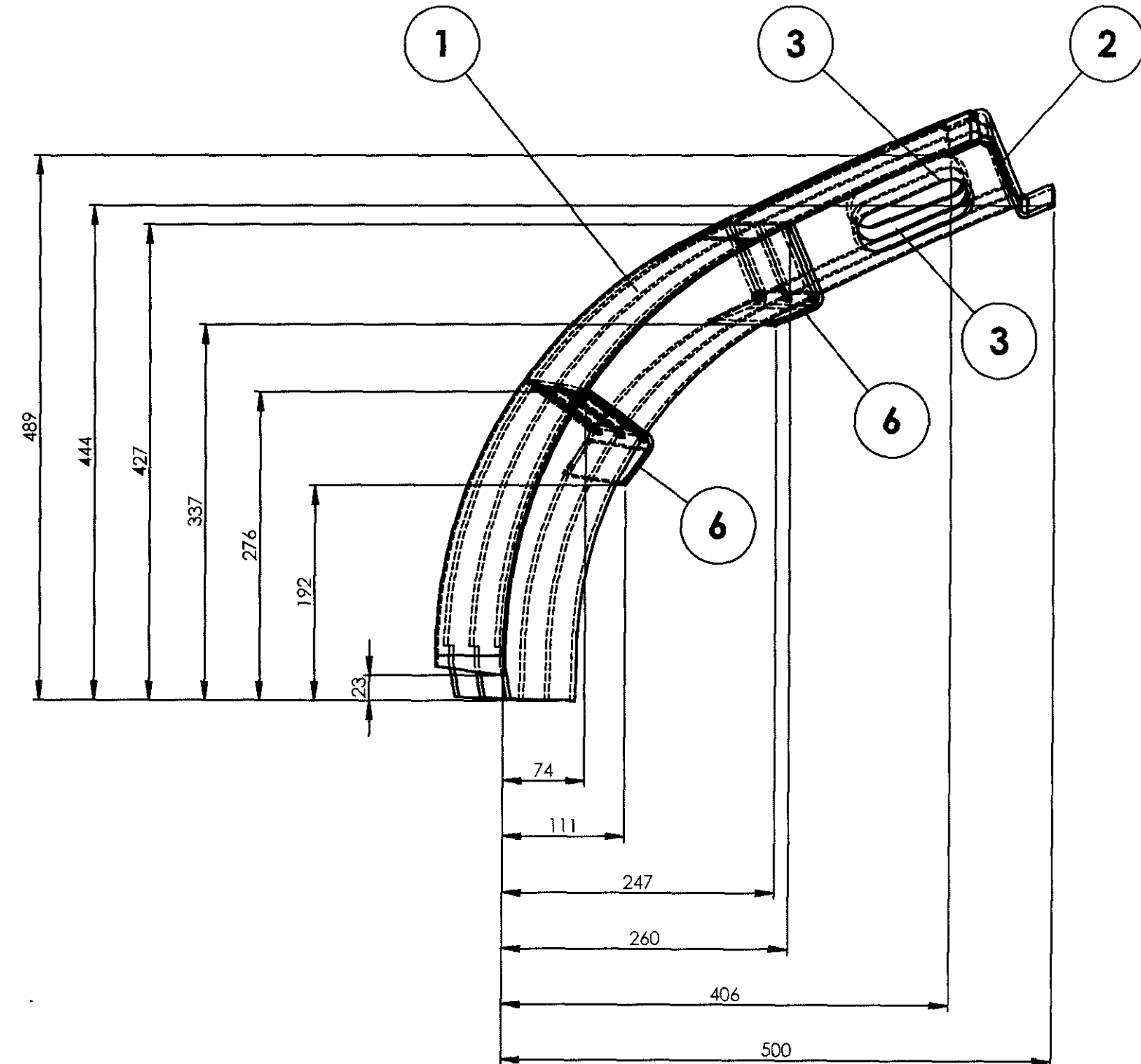
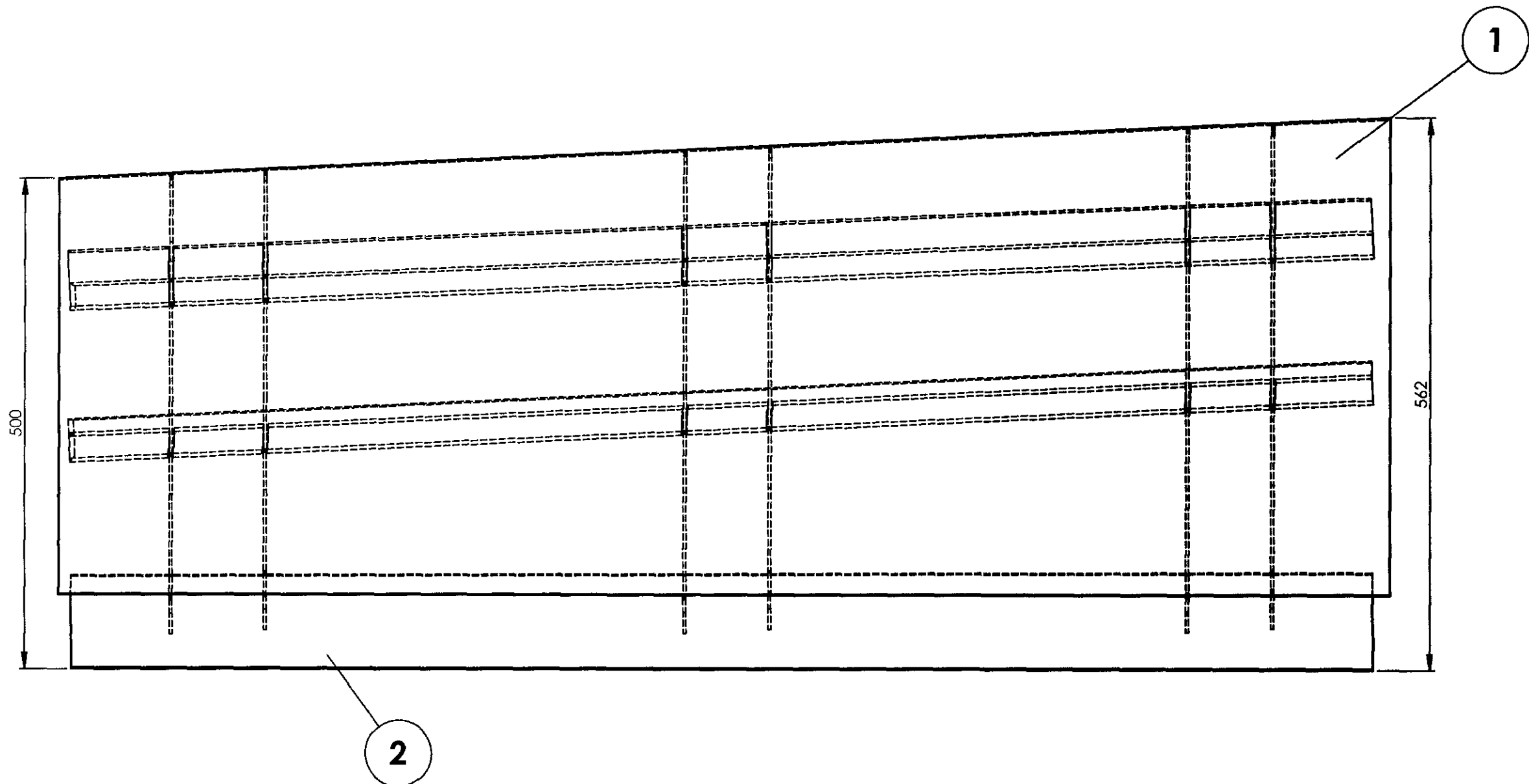
AME/SME

REF.DRG.NO.LG10208_a

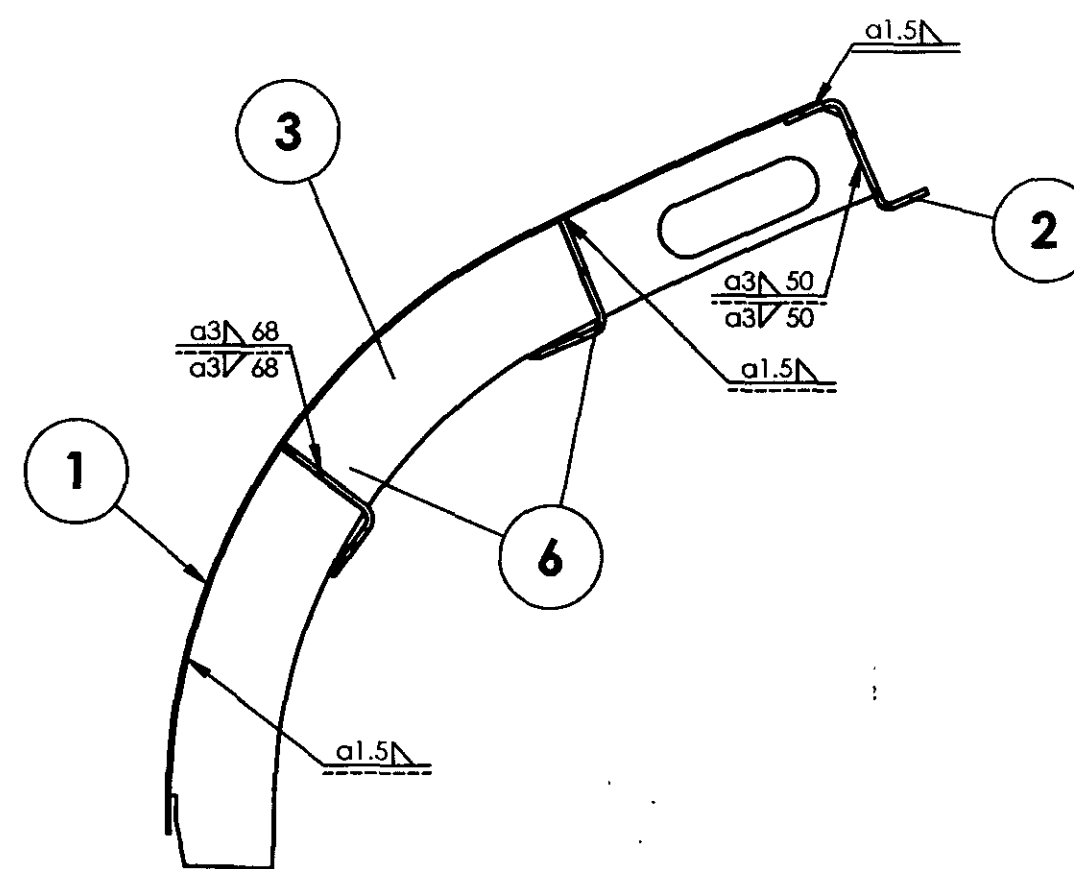
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

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.

2	ANGLE-LH		6	AAA16987			5.080	
2	RIB		5	AAA16989			1.139	
2	RIB		4	AAA16990			1.099	
2	RIB		3	AAA16991			1.059	
1	Z-STIFFENER-LH		2	AAA16979			6.220	
1	END ROOF SHEET-LH		1	AAA16992			15.721	
Default	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS	
GROUP: 1-6		SURFACE AREA IN Sq.m.: 3.622			WT/ASSY IN Kgs:			
FINAL ROOF ELEMENT COMPLETE-LH					SCALE	95.20		
					1:5	SSE/D		
						CHD		
					ALTD	Bala V Subramani		
					C	DRN	B.Suresh	
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038						LGS/EOG		
					SHEET	58116062		
					1 OF 1	A1		



VIEW X




SECTION A-A

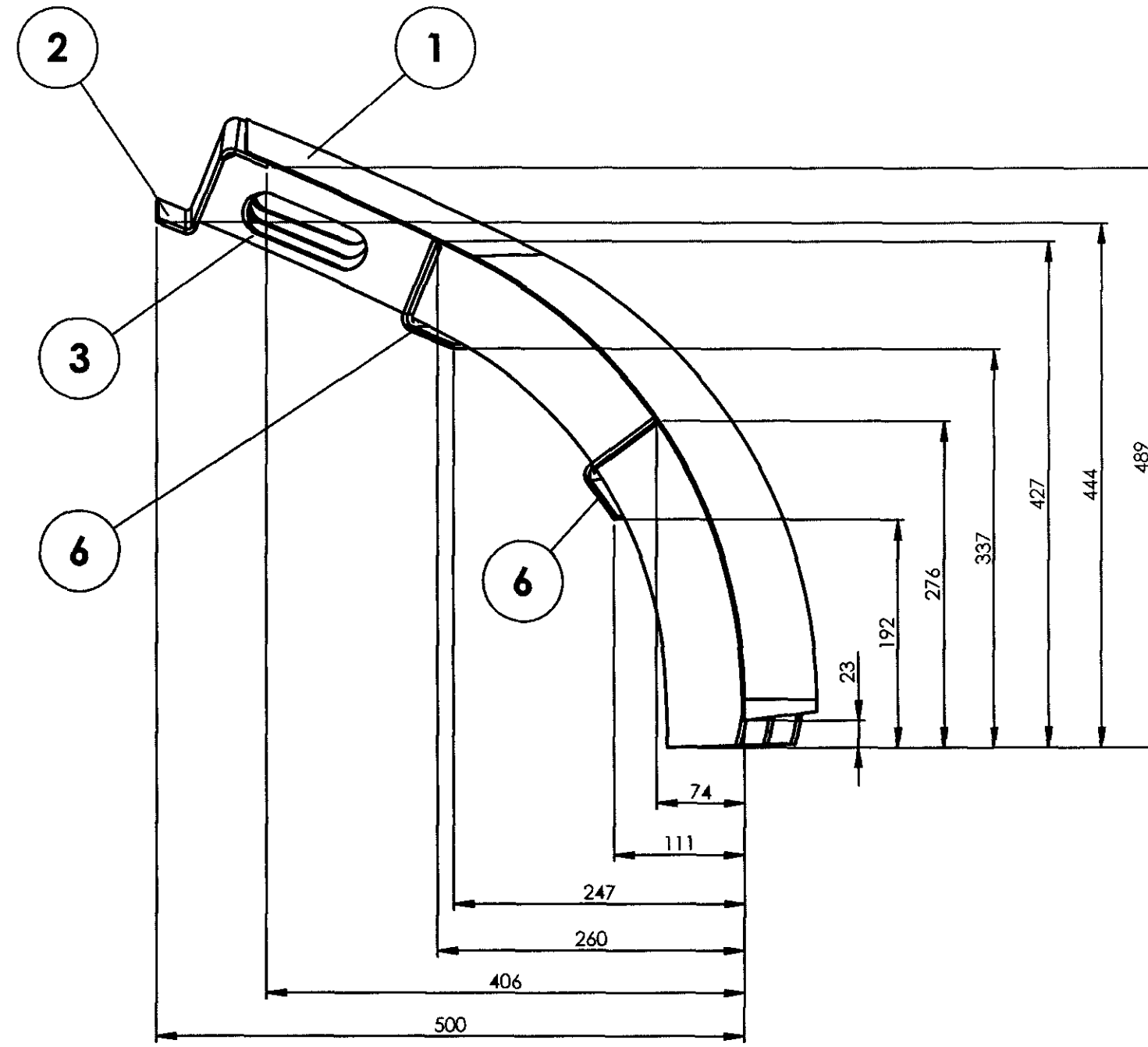
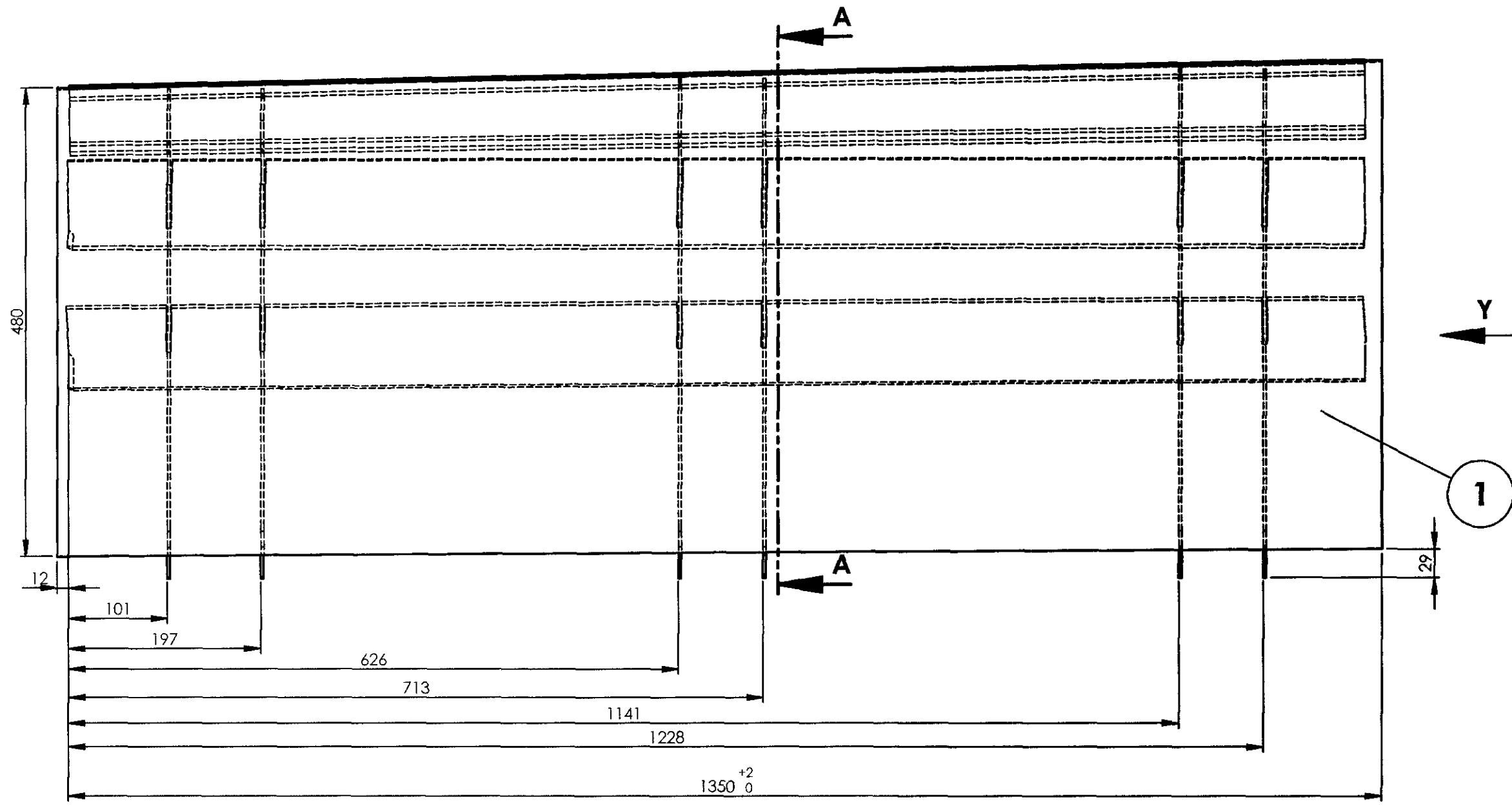
1. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE 3 OF RDSO/SPEC C-K201 SHALL BE USED FOR WELDING.
2. ALL WELD SPATTERS SHALL BE GROUND.
3. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
4. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
5. ALL WELDINGS SHALL BE TIG WELDING UNLESS OTHERWISE SPECIFIED.
- ~~6. FINISHED ASSEMBLY SHALL BE APPLIED WITH (AIRLESS SPRAY) ECO FRIENDLY WATER BASED MODIFIED EPOXY ZINC PHOSPHATE GEL PRIMER TO ICF/MD/SPC 231.~~

58116063

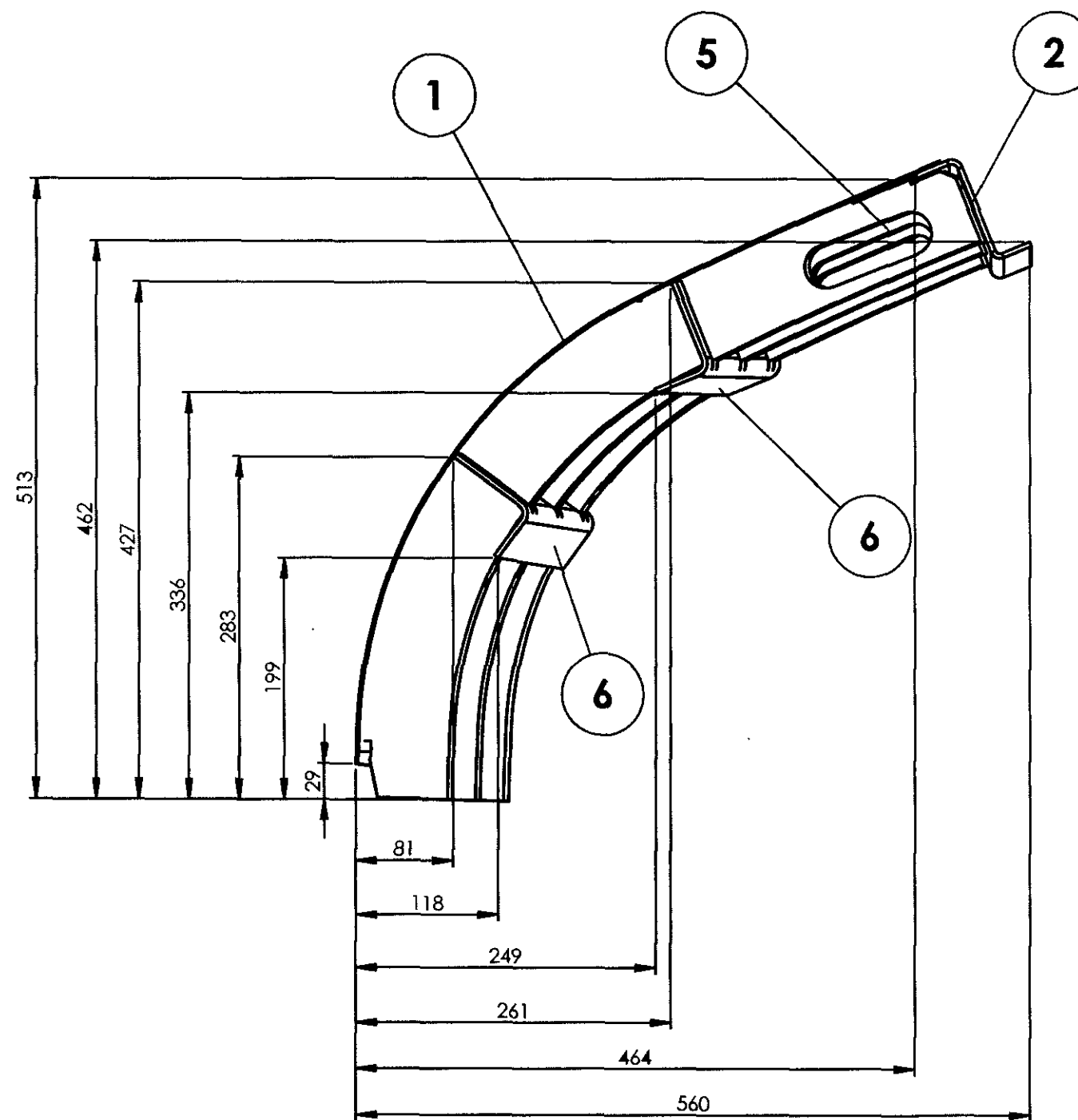
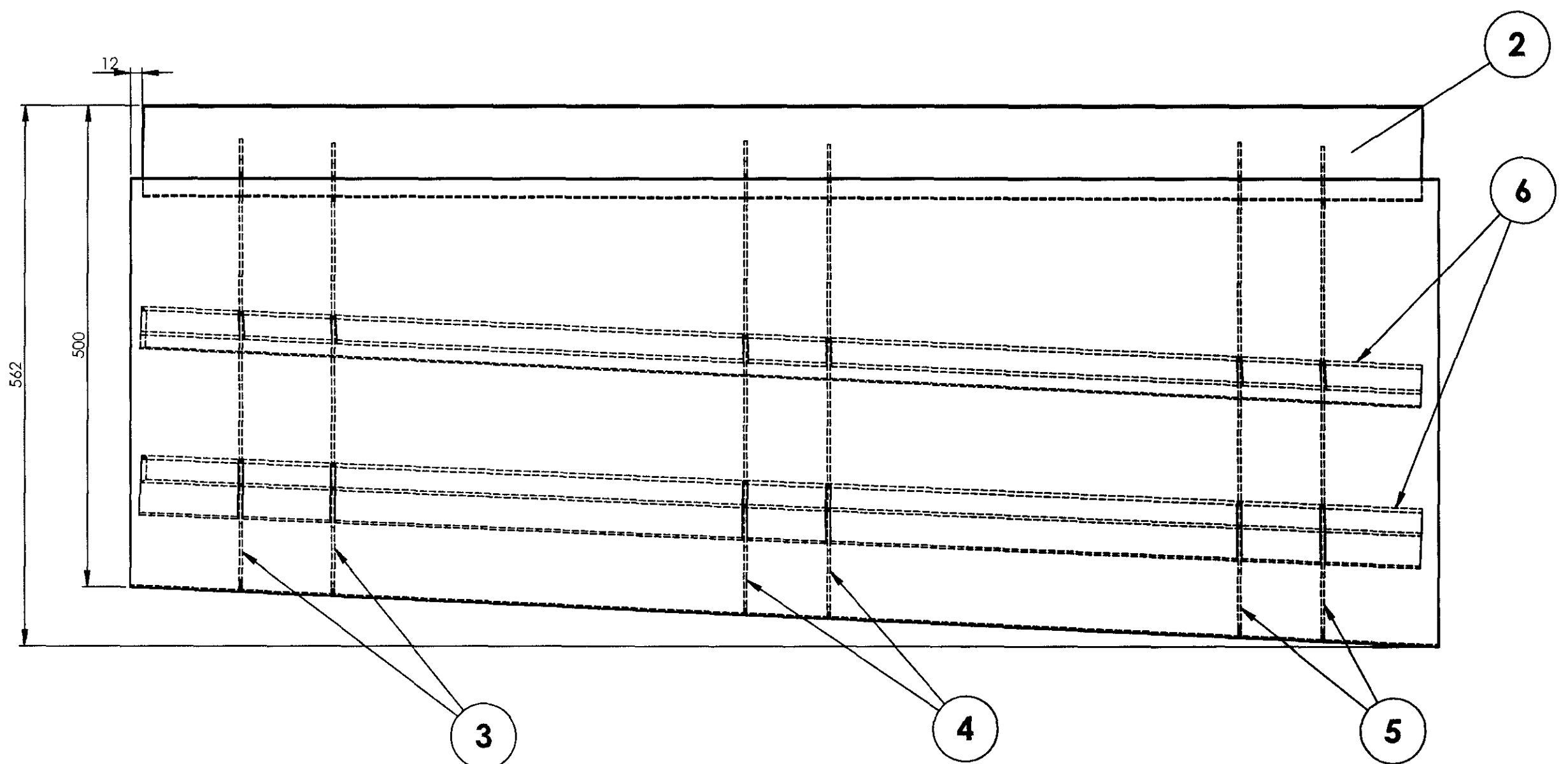
▽ ROUGH MACHINED
▽▽ FINISH MACHINED
▽▽▽ FINE FINISH MACHINED

① ROUGH CLEANED
①① BURRS REMOVED
①①① CHAMFERED

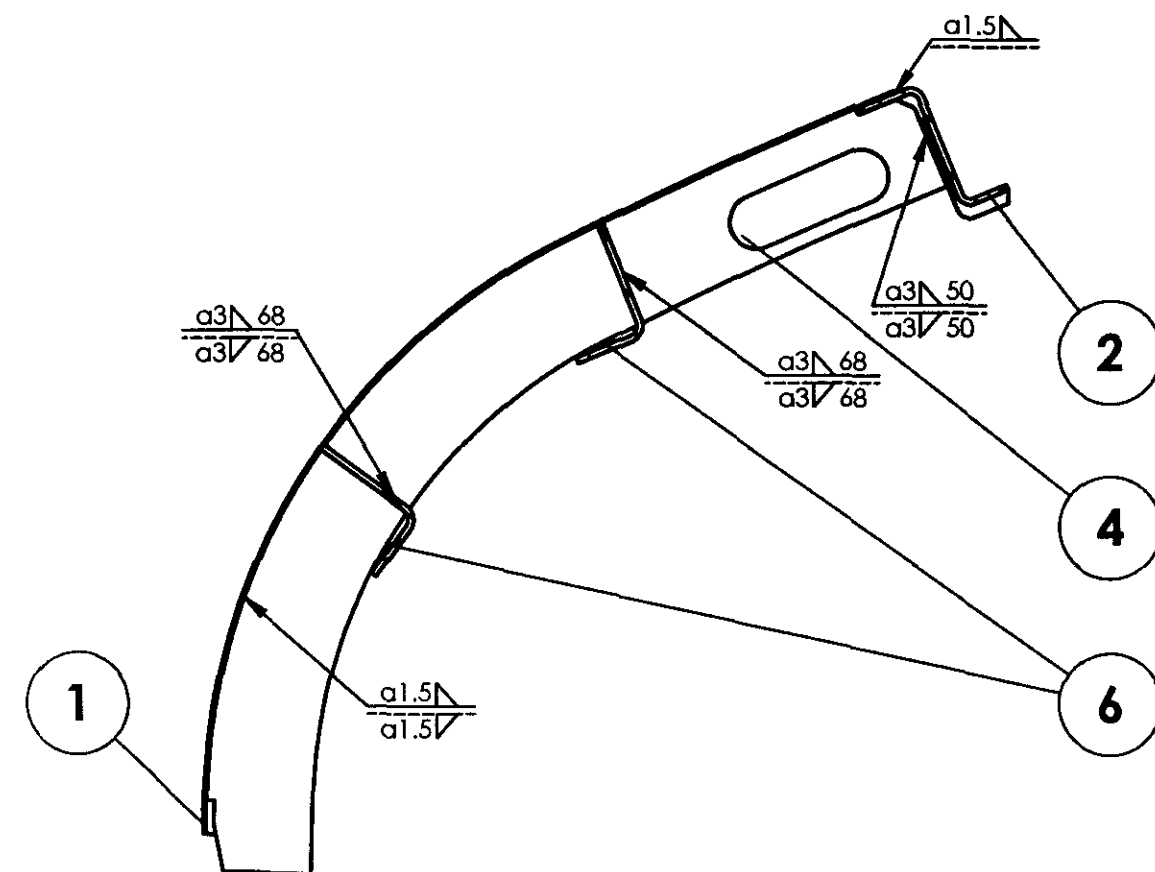
REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		NOTE -4 DELETED.	-Sd-
b		ITEM-2 & 4 DESIGN REVISED. VIEWS ALTD ACCORDINGLY.	-Sd-
c		VIEWS UPDATED FOR ELONGATED HOLE IN RIBS	



VIEW X



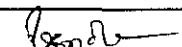


VIEW Y



SECTION A-A

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.

2	ANGLE-R.H		6	AAA16986		5.081	
2	RIB		5	AAA16989		1.139	
2	RIB		4	AAA16990		1.099	
2	RIB		3	AAA16991		1.059	
1	Z-STIFFENER(R.H.)		2	AAA16852		6.220	
1	END ROOF SHEET-R.H		1	AAA16993		15.721	
Default	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS
GROUP: 1-6			SURFACE AREA IN Sq.m.: 3.622		WT/ASSY IN Kgs:		
FINAL ROOF ELEMENT COMPLETE-RH					SCALE	SSE/D	
					1:5	CHD	
					ALT	ALTD	Bala V.Subramani,
						DRN	B.Suresh
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038					 SHEET	LGS/EOG	
						58116063	
					1 OF 1		A1

9-04-2022	22-08-2013	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

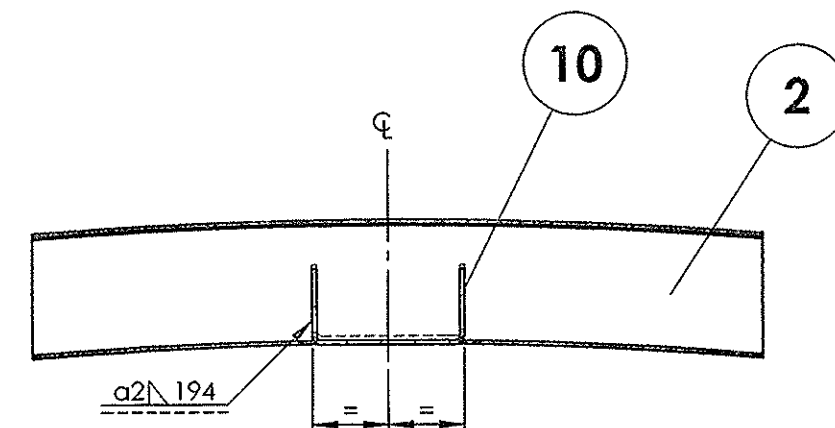
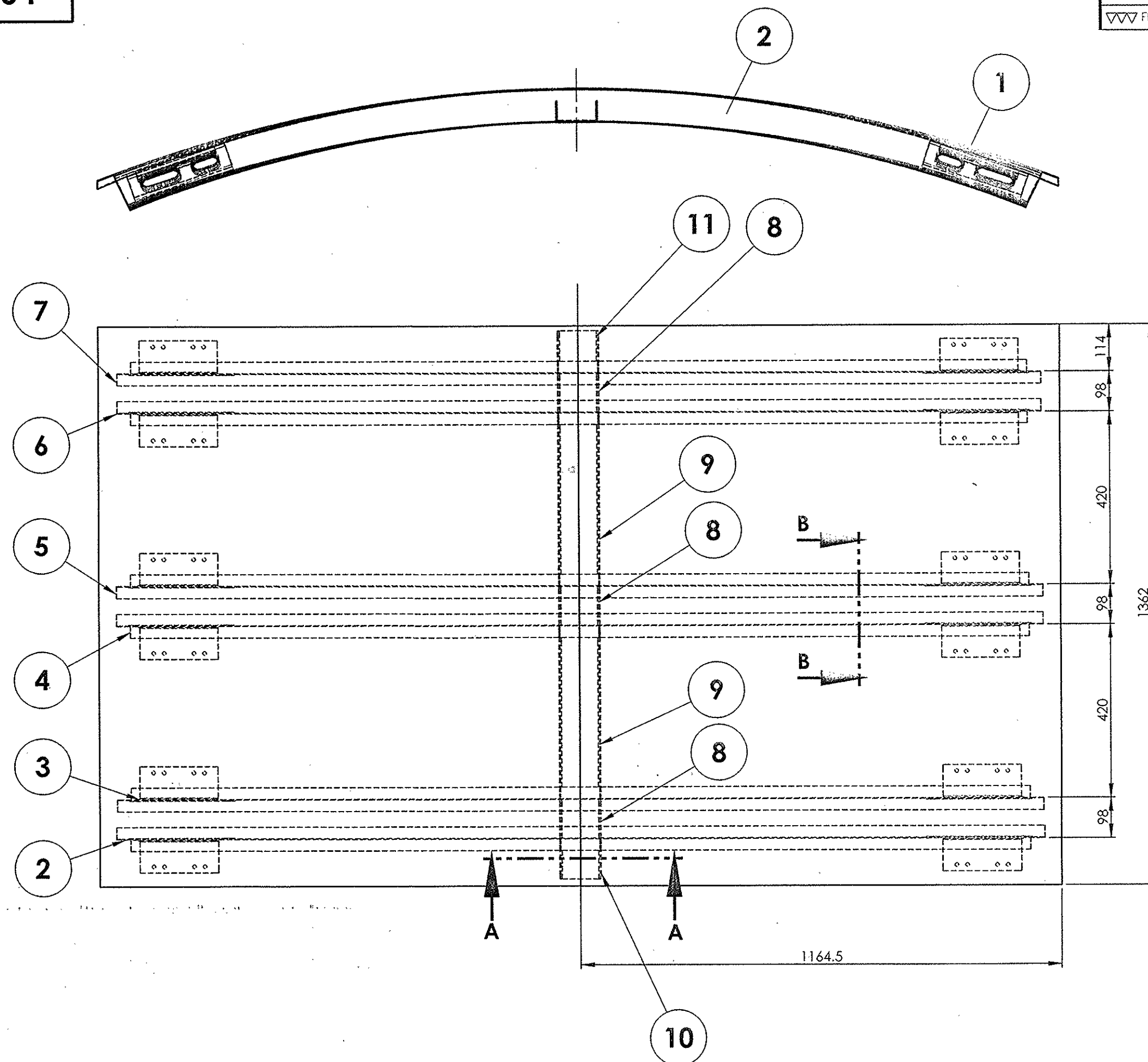
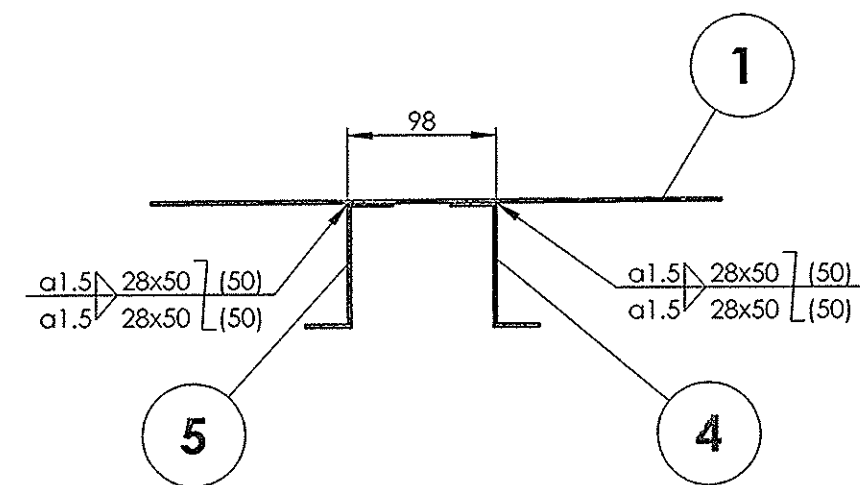
58116064

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

(01) ROUGH CLEANED
(01b) BURRS REMOVED
(18) CHAMFERED

REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		NOTE-6 DELETED.	
b		ITEM-10 DESIGN REVISED. VIEWS ALTD ACCORDINGLY.	
c		VIEWS UPDATED.	

SECTION A-A
SCALE 1 : 5SECTION B-B
SCALE 1 : 5**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 PRIMER TO ICF/MD/SPEC-231.

REF.DRG.NO.LR10161

13 -02-2018	13-08-2013	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

1	CHANNEL		11	AAA16980		0.398	
1	CHANNEL		10	AAA16982		0.375	
2	CHANNEL		9	AAA16981		1.781	
3	CHANNEL		8	AAA16983		0.429	
1	CARLINE		7	58116061		5.661	
1	CARLINE		6	58116060		5.661	
1	CARLINE		5	58116059		5.665	
1	CARLINE		4	58116058		5.666	
1	CARLINE		3	58116057		5.660	
1	CARLINE		2	58116056		5.668	
1	MIDDLE ROOF SHEET		1	AAA16849		52.051	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS

GROUP: 1-6

SURFACE AREA IN Sq.m.: 11.477

WT/ASSY IN Kgs:

MIDDLE ROOF SHEET ASSY.

SCALE 1:50	SSE/D	
	CHD	
ALT c	ALTD	G.VIMALA
	DRN	B.SURESH

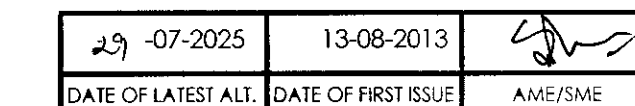
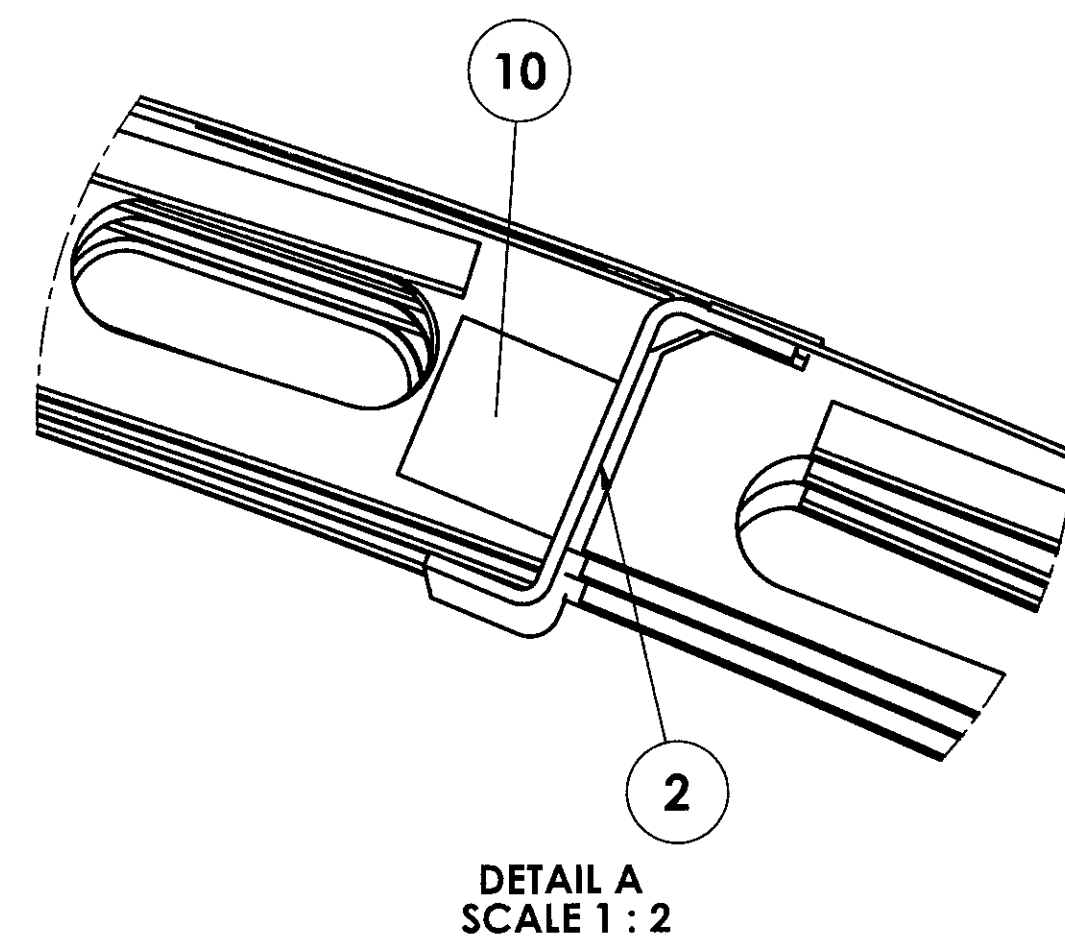
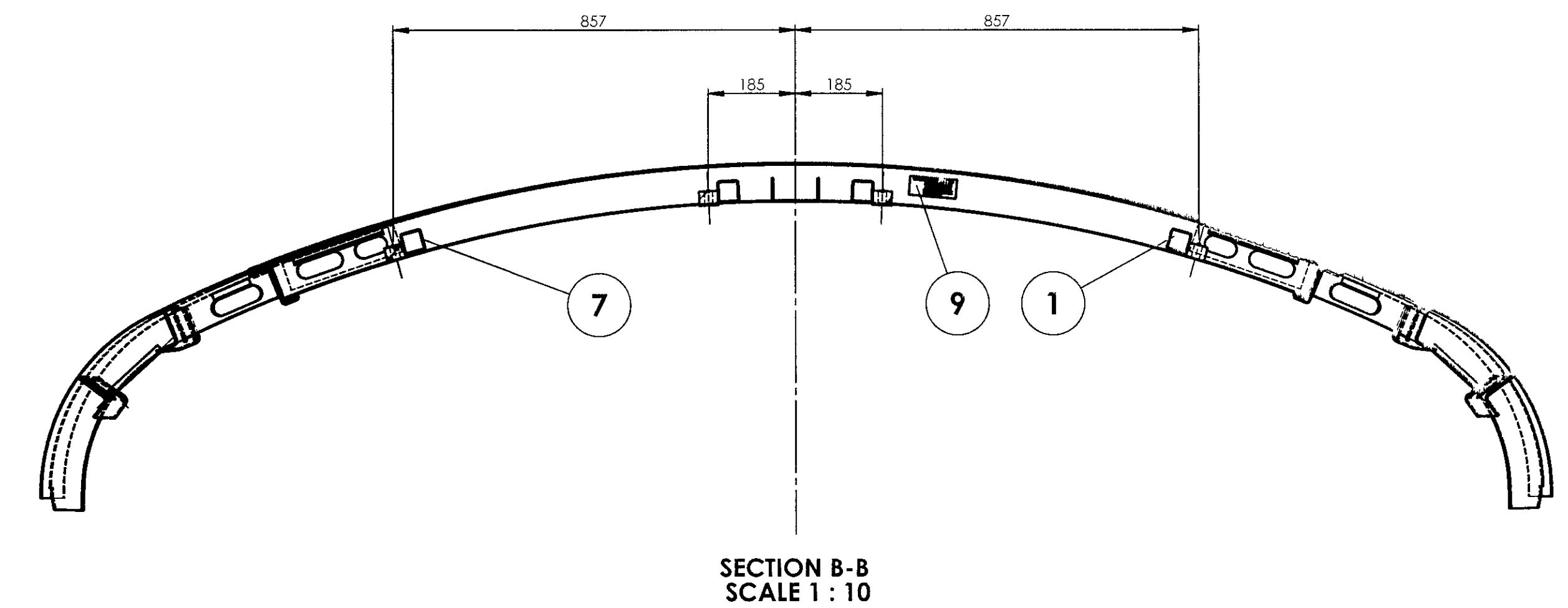
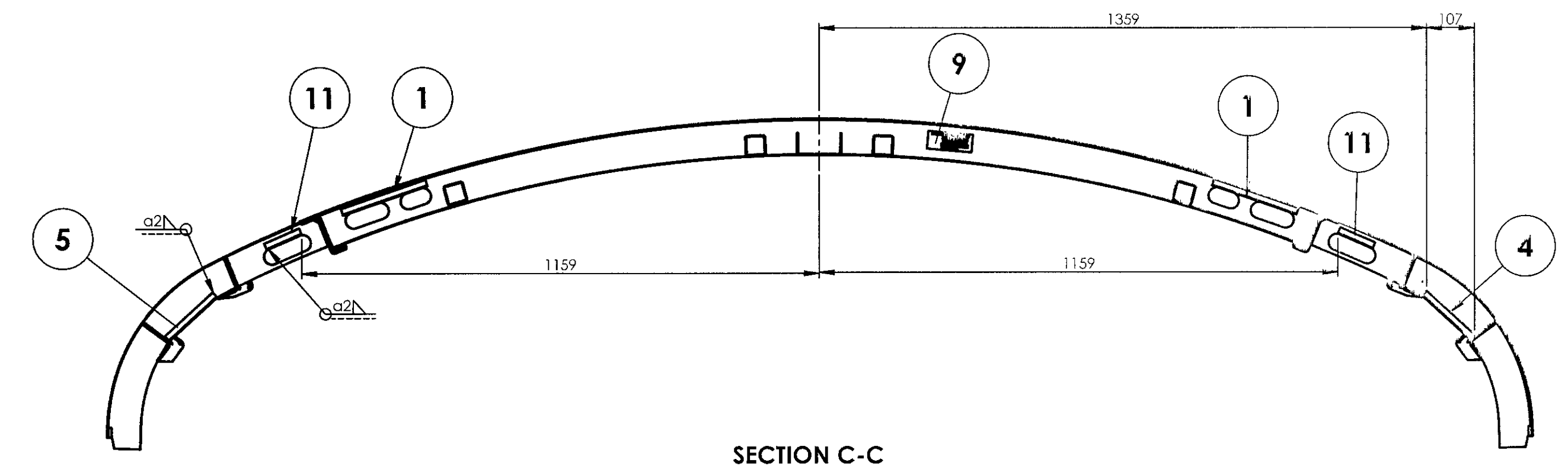
INDIAN RAILWAY STANDARDS
INTEGRAL COACH FACTORY, CHENNAI - 600038

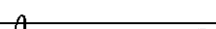

SHEET
1 OF 1

58116064

A2

12	13
▽ ROUGH MACHINED	(01) ROUGH CLEANED
▽▽ FINISH MACHINED	(10) BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	(18) CHAMFERED



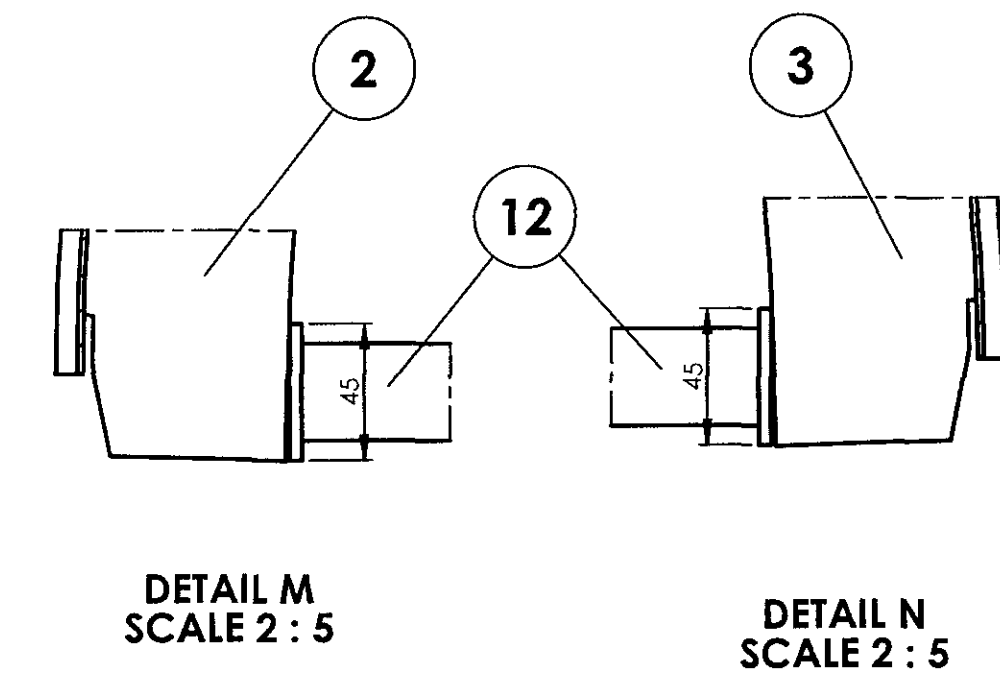
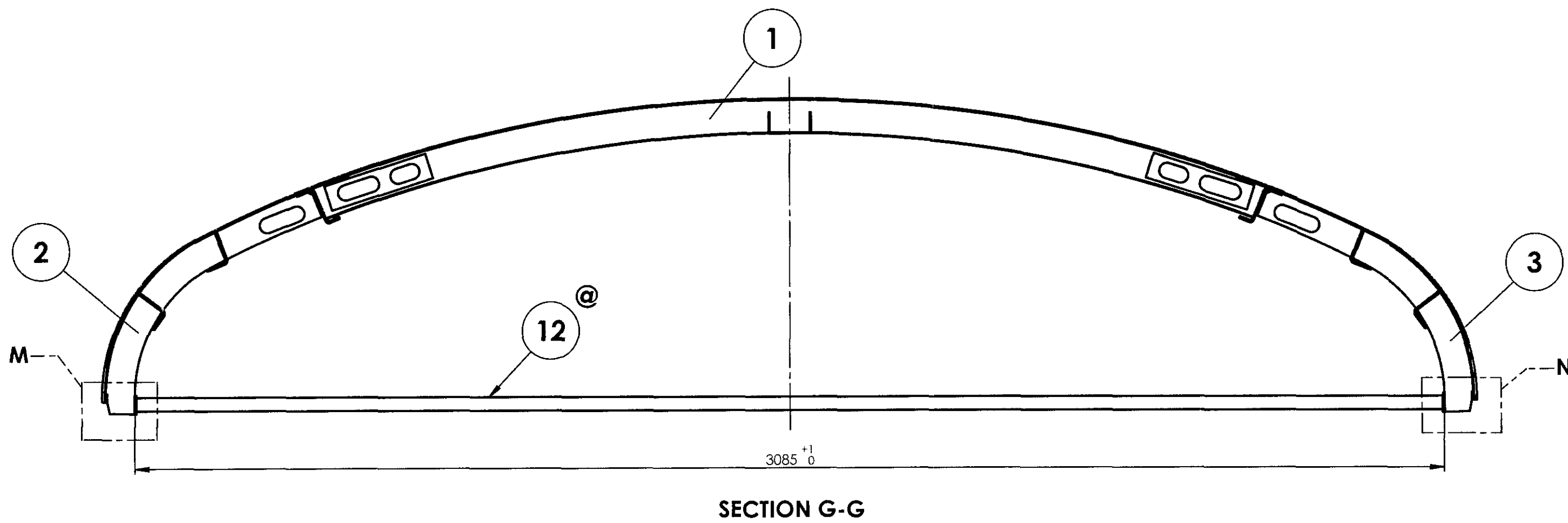
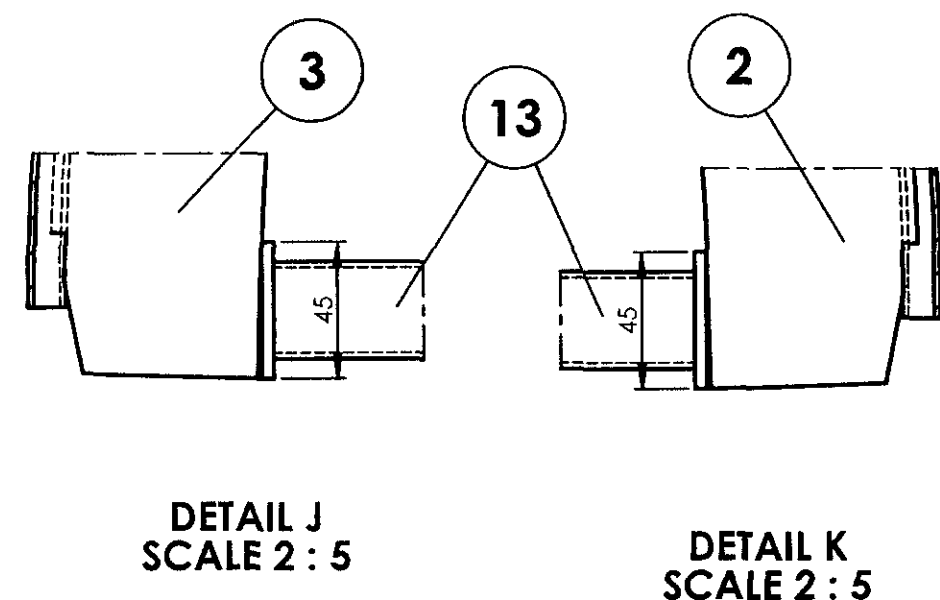
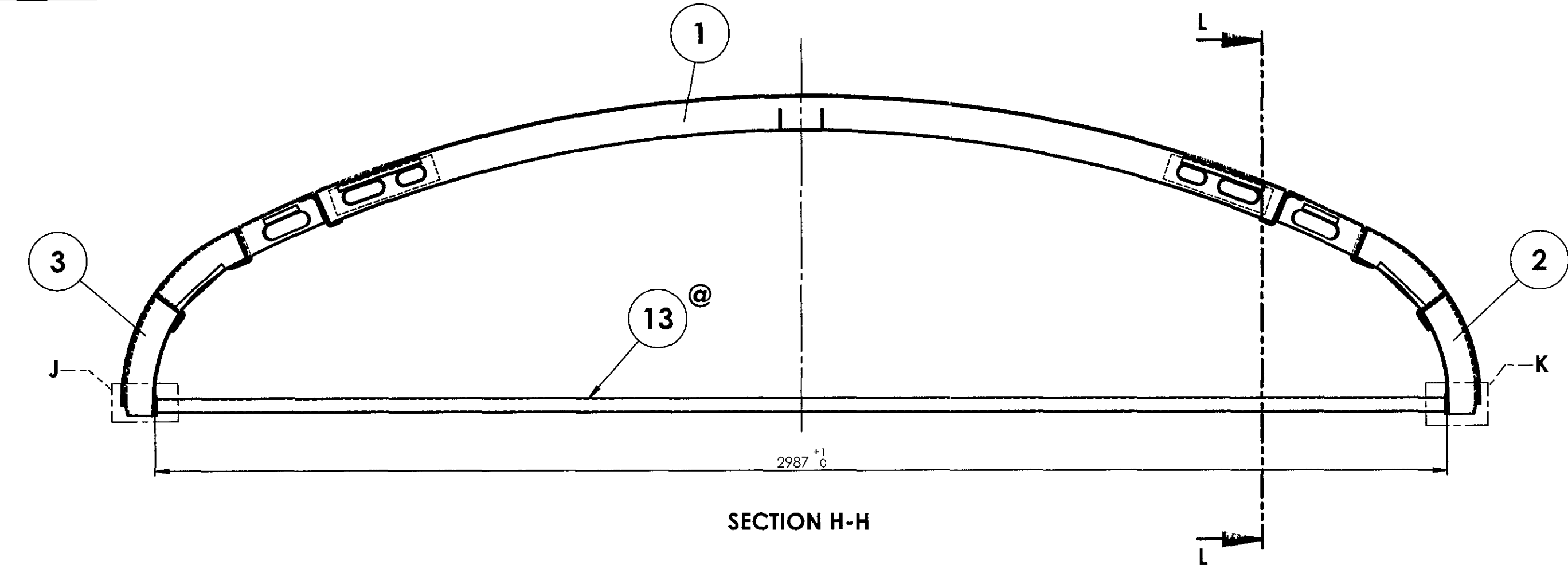
GROUP: 1-6 Roof Construction		SURFACE AREA IN Sq.m.: 20.84		WT/ASSY IN Kgs:		
END ROOF ASSEMBLY				SCALE	SSE/D	
				1:10	CHD	
				ALT.	AMAL GEORGE	
				URN	Bala V Subramani	
						LGS/EOG
INDIAN RAILWAY STANDARDS				SHEET		
INTEGRAL COACH FACTORY, CHENNAI - 600038				1 OF 2		
				58116066		
				A1		

58116066

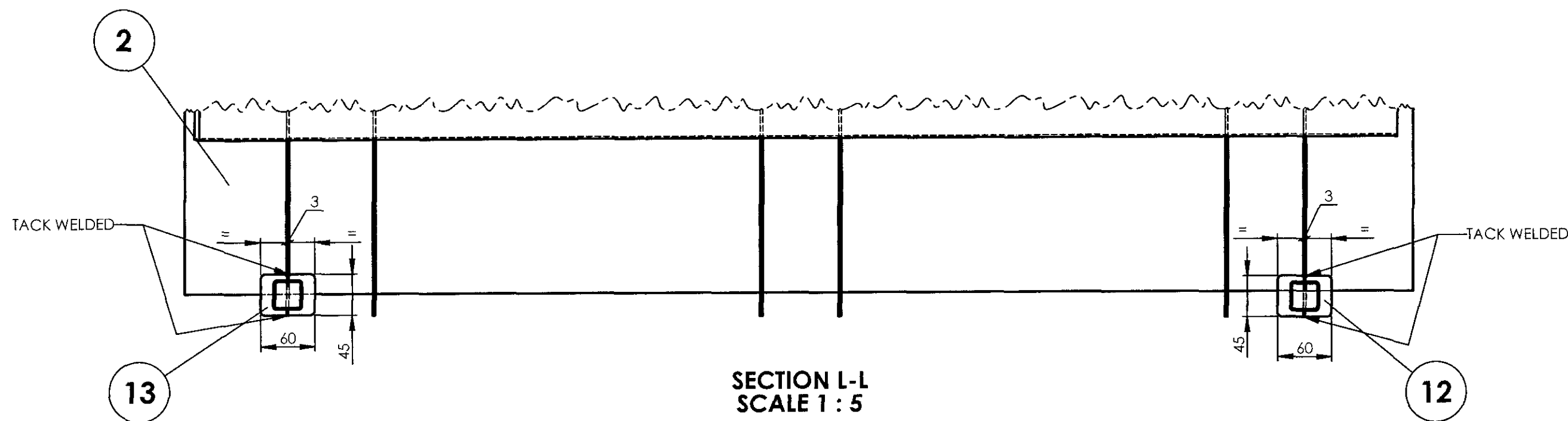
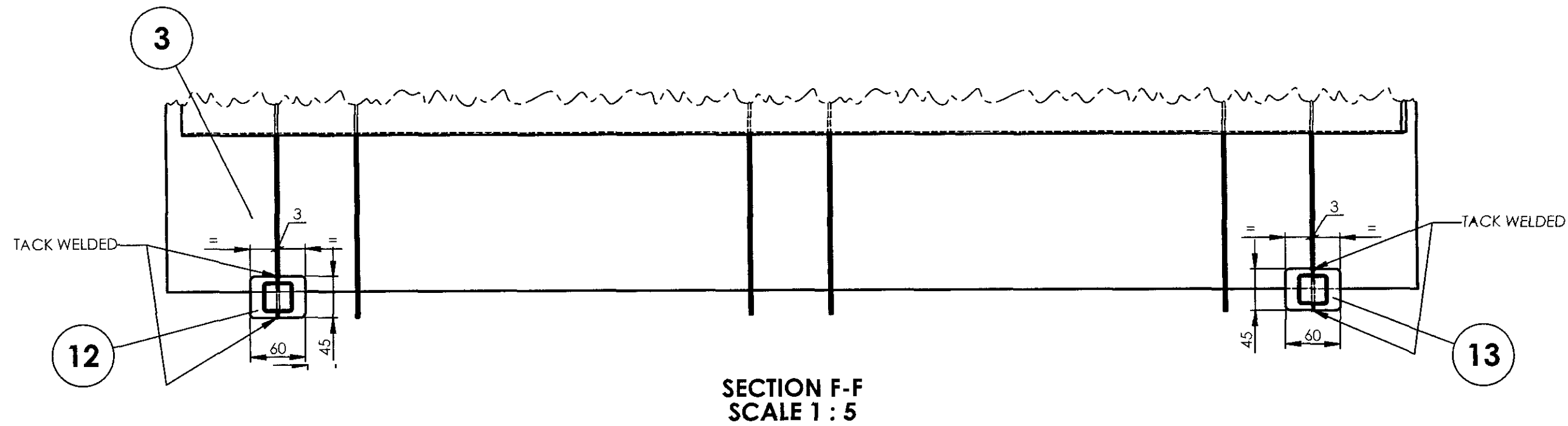
ROUGH MACHINED
FINISH MACHINED
FINE FINISH MACHINED

ROUGH CLEANED
BURRS REMOVED
CHAMFERED

REVISIONS				APPROVED & DATE
ALT.	ZONE	DESCRIPTION		
a		NOTE-4 REVISED.		-sd/-
b		DIMENSION 3121 ADDED.		-sd/-
c		NOTE-4 REVISED.		-sd/-
d		SECTION D-D, ITEM-10 & NOTE-9 ADDED.		-sd/-
e		VIEWS UPDATED.		-sd/-
f		ITEM-11 ADDED, ITEM-4 DELETED. VIEWS UPDATED. NOTE-8 DELETED.		-sd/-
g		SHEET 2, ITEM-12 to 14, SECTION E-E, F-F, G-G, H-H & L-L DETAILS AT J.K.M & N AND NOTES 10 TO 14 ADDED. VIEWS UPDATED.		-sd/-
h		ITEM-14, SECTION E-E & NOTE-11 DELETED. VIEWS UPDATED ACCORDINGLY.		-sd/-



- 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 PAINTED WITH (AIRLESS SPRAY) ECO FRIENDLY WATER BASED MODIFIED EPOXY ZINC PHOSPHATE ETCH PRIMER TO ICF/MD/SPEC-231.
 7. ITEM-9 (NAME PLATE) SHALL BE WELDED OR RIVETED AT SUITABLE LOCATION AS SHOWN IN THE DRAWING IF PROCURED FROM TRADE.
 8. ITEM SHALL BE OFFERED FOR PHOTO TYPE INSPECTION BY ICF BEFORE TAKING UP BULK MANUFACTURE. SINCE THE ITEM IS DEVELOPED FIRST TIME, MINOR CHANGES LIKE CHANGE OF LOCATION OF MEMBERS, SIZE, ALTERATION OF BACK PIECES AND WELDING REQUIREMENTS HAVE TO BE ACCOMMODATED. THESE CHANGES SHALL BE IMPLEMENTED IN CONSULTATION WITH DESIGN DEPARTMENT OF ICF.
 9. ITEM-10 TO BE SUPPLIED LOOSE AND TO BE WELDED AT BODY SHELL ASSEMBLY STAGE.
 10. ITEMS-12 & 13 SHALL BE TACK WELDED AND SHALL BE REMOVED AFTER BODY SHELL ASSEMBLY.
 11. ITEM-14 SHALL BE CUT & REMOVED AFTER BODY SHELL ASSEMBLY.
 12. ALL WELD PERFORMANCE CLASS SHALL BE **CP C2** UNLESS OTHERWISE SPECIFIED.
 13. FOR WELD TESTING PREFERENCES REFER DRG. No. ICF/STD-9-0-998.
 14. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.



4	TIE ROD	Ø12 x 302	14		55-304	0.28	
1	SUPPORT ASSEMBLY FOR END ROOF		13	32914090		5.45	
1	ROOF SUPPORT TUBE FOR WIDTH		12	32914089		5.83	
4	BRACKETS FOR 2 CONDUITS CLAMPING		11	AAE14198		0.036	
8	CONNECTING ANGLE		10	AA814410		0.09	
1	NAME PLATE FOR SUPPLIER IDENTIFICATION		9	AAA51072		0.043	
2	BRACKET FOR RIGID FIXING ARRGT.		8	58114079		1.479	
2	BRACKET FOR RIGID FIXING ARRGT.		7	58114078		1.479	
3	BRACKETS FOR 2 CONDUITS CLAMPING		6	AA814034		0.042	
3	BRACKETS FOR 3 CONDUITS CLAMPING		5	AA814038		0.072	
3	BRACKETS FOR 3 CONDUITS CLAMPING		4	AA814033		0.072	
1	FINAL ROOF ELEMENT COMPLETE-RH		3	58114043		38.497	
1	FINAL ROOF ELEMENT COMPLETE-LH		2	58114062		38.495	
1	MIDDLE ROOF SHEET ASSY.		1	58114044		91.387	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS.	MATL	WT/UNIT IN KGS	REMARKS

GROUP: 1-6 Roof Construction		SURFACE AREA IN Sq.m.: 20.864		WT/ASSY IN Kgs:	
END ROOF ASSEMBLY		SCALE 1:10	SSE 'D'		
		CHD	CHD		
		ALT'D	ALT'D		
		DRN	DRN		
INDIAN RAILWAY STANDARDS		SHEET 2 OF 2		LGS/EOG	
INTEGRAL COACH FACTORY, CHENNAI - 600038		58116066		A1	

REF.DRG.NO.LR10161

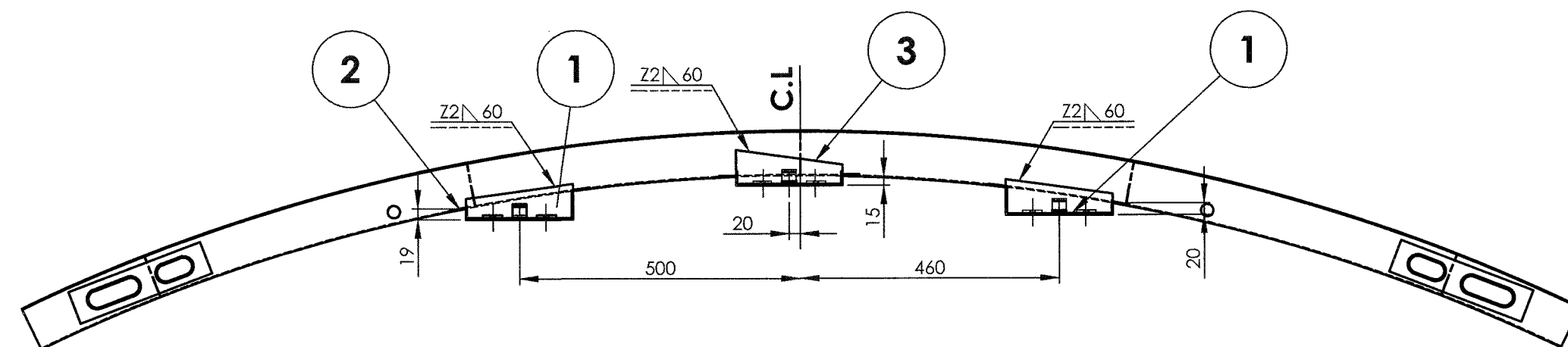
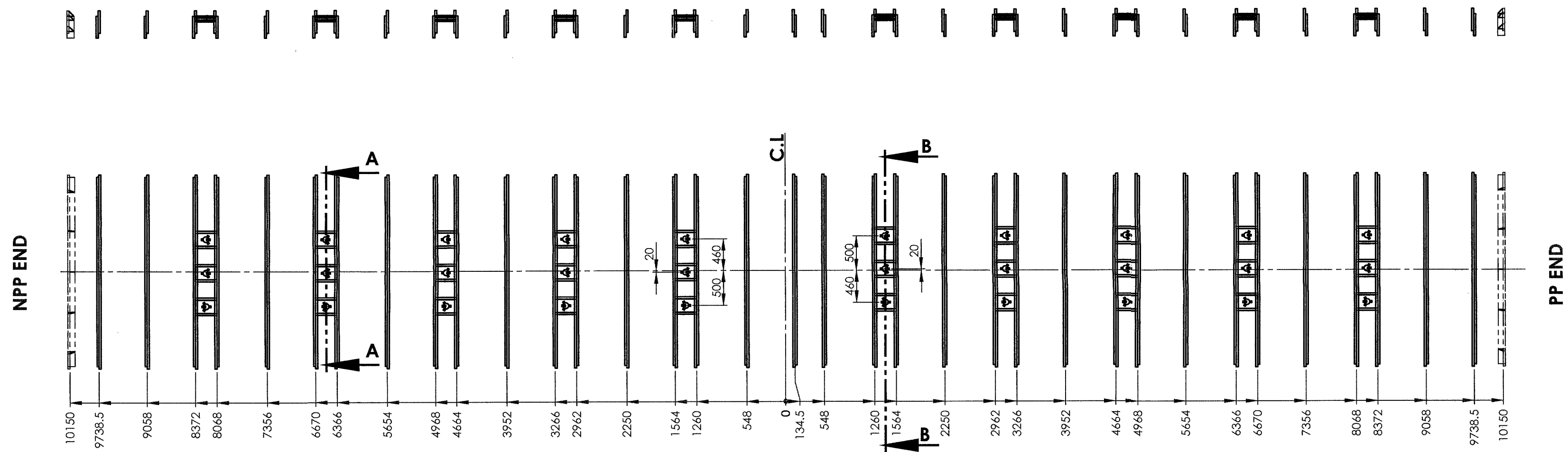
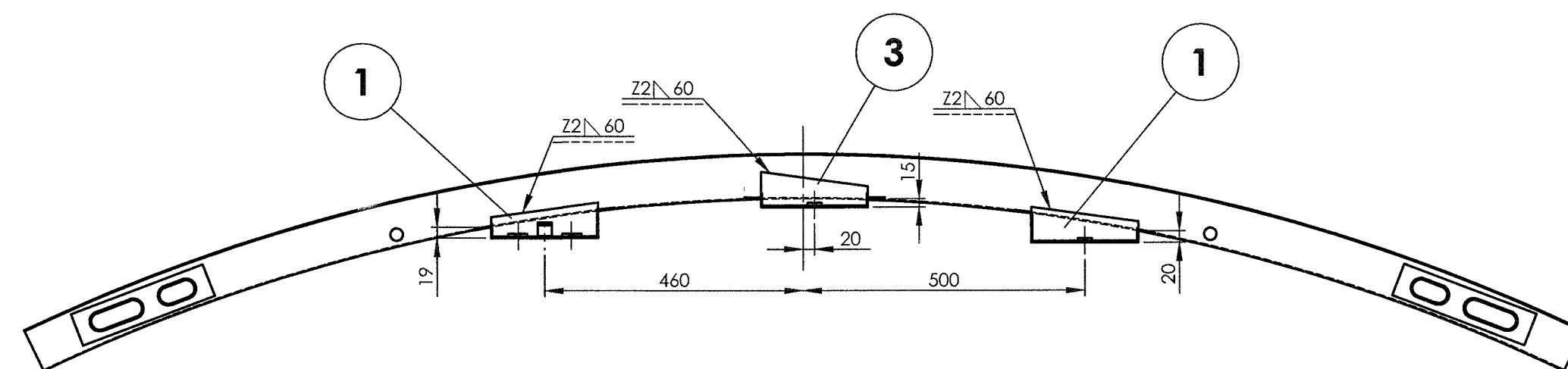
23-07-2025 13-08-2013 AME/SHE

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.

58116071

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		DRAWING REVISED.	sd/-
b		ITEM-3 ADDED AND QTY OF ITEM-1 ALTD FROM 30 TO 20.	

SECTION A-A
SCALE 1 : 10SECTION B-B
SCALE 1 : 10

NOTE:-

1. LOCATING DIMENSION OF ITEM-1 TO BE ENSURED STRICTLY BY MEANS OF A JIG/TEMPLATE.
2. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO SPEC. C-K201 SHALL BE USED FOR WELDING.
3. ALL WELD SPATTERS SHALL BE GROUND.
4. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
5. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
6. ALL WELDINGS SHALL BE TIG WELDING UNLESS OTHERWISE SPECIFIED.

10	FAN BRACKET		3	58116093		1.963	
60	BACK PIECE		2	AAB16264		0.18	
20	FAN BRACKET		1	58116081		2.084	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS
GROUP: 1-6				SURFACE AREA IN Sq.m.: 37.012		WT/ASSY IN Kgs:	
LOCATION OF FAN BRACKETS				SCALE 1:50	SSE/D	CHD	
				ALT b	ALTD	DRN	Kunti Thakur
							S.Bala V.subramani
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1		LGS/EOG	
				58116071		A2	

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 IS813-1986. WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY.

REF.DRG.NO.LG16185 alt.c ITEMS-1&2

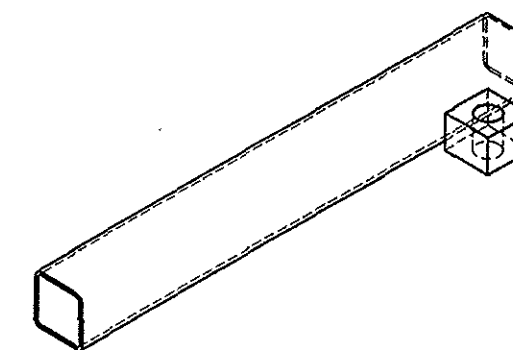
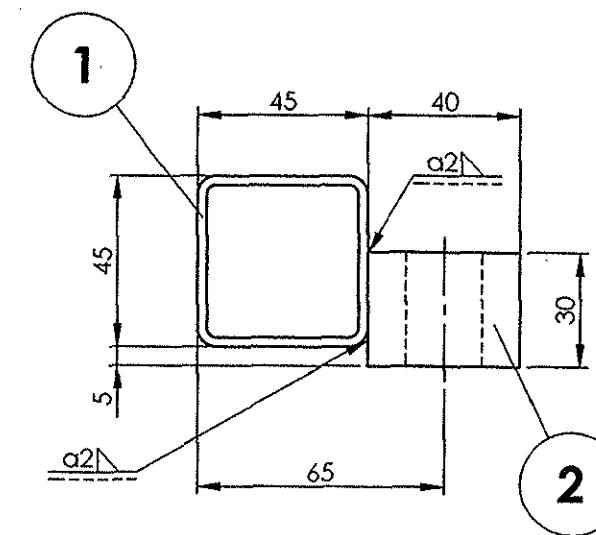
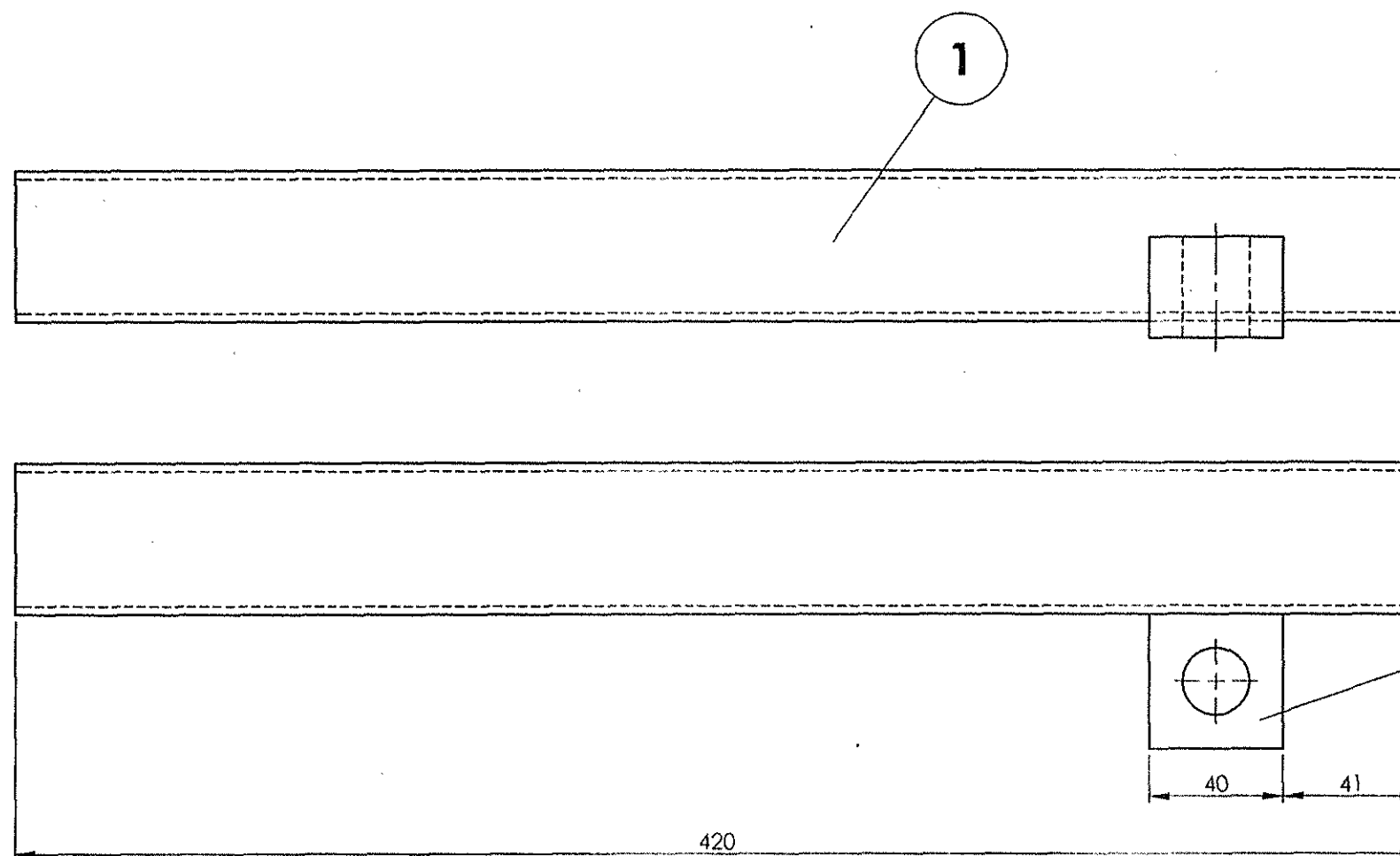
28 -11-18	24-09-2013	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

58116078

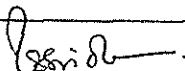

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	①8 CHAMFERED

REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
------	------	-------------	-----------------



ISOMETRIC VIEW

1	SCREWING PIECE		2	AAB16040		0.309	
1	SQUARE TUBE		1	AAB16039		1.374	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS
GROUP: 1-6			SURFACE AREA IN Sq.m.:0.147		WT/ASSY IN Kgs:		
BRACKET FOR RIGID FIXING ARRGT.					SCALE	SSE/D	
					1:5	CHD	
					ALT.	ALTD	
						DRN	B.Suresh
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038							LGS/EOG
SHEET 1 OF 1					58116078		A3

	03-06-2014	B. Suresh
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SM

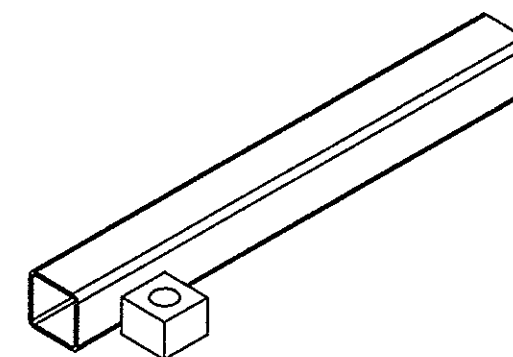
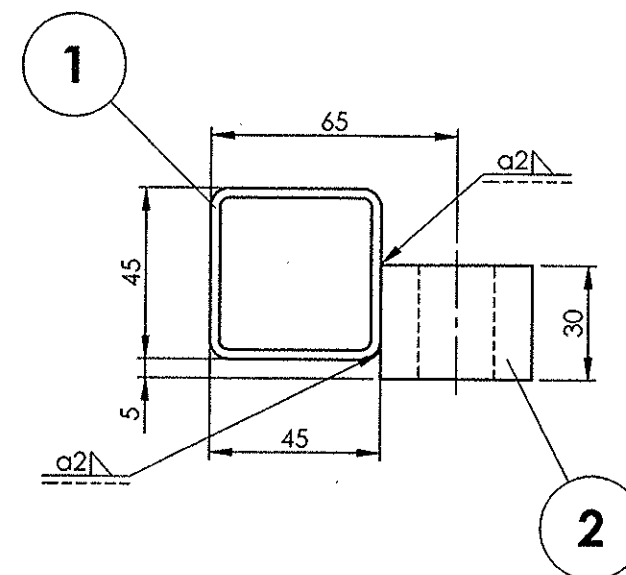
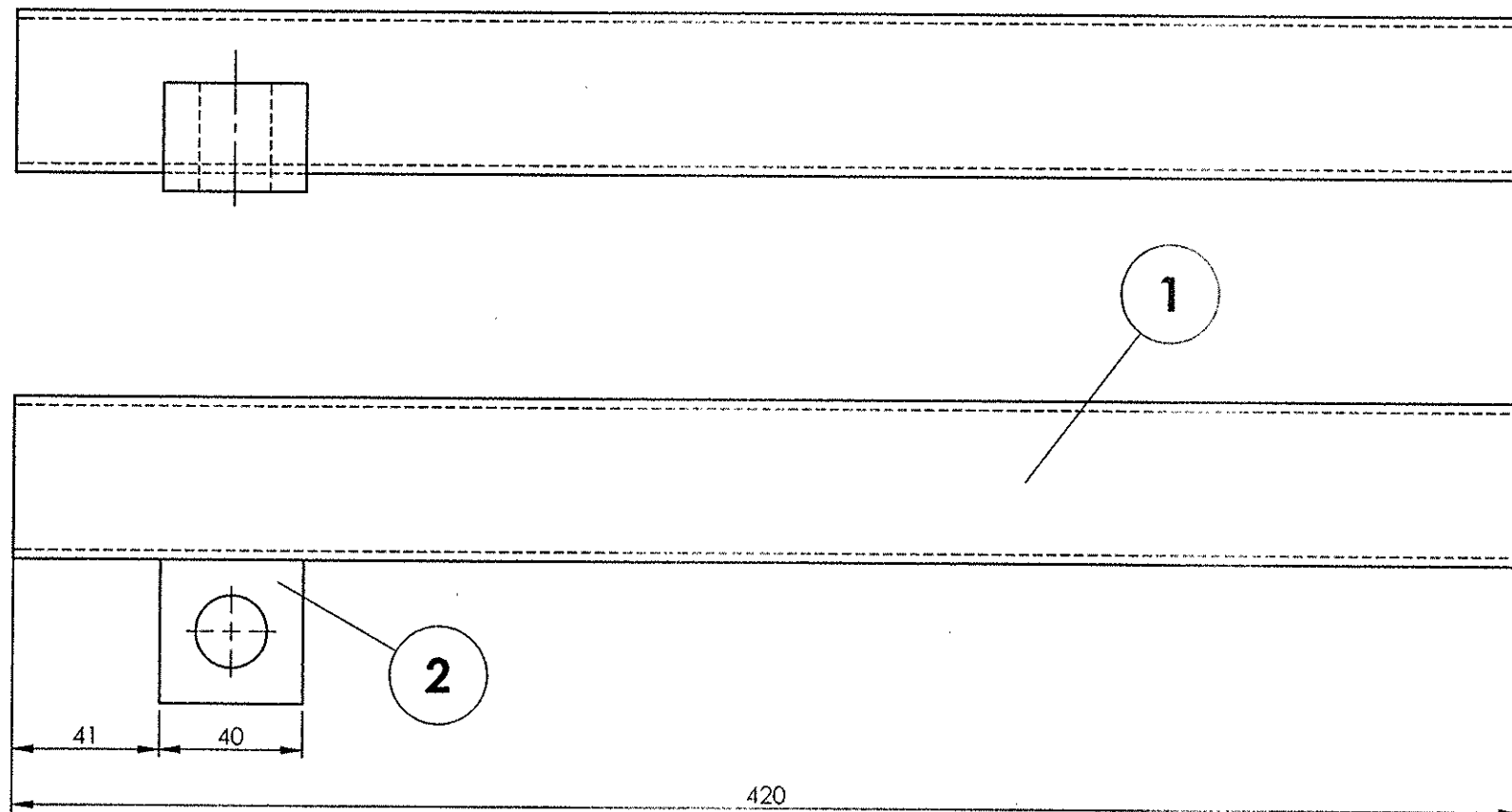
REF.DRG.NO.

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.
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

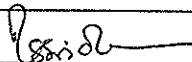

58116079

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



ISOMETRIC VIEW

1	SCREWING PIECE		2	AAB16040		0.309		
1	SQUARE TUBE		1	AAB16039		1.374		
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS	
GROUP: 1-6			SURFACE AREA IN Sq.m.:0.147			WT/ASSY IN Kgs:		
BRACKET FOR RIGID FIXING ARRGT.						SCALE	SSE/D	
						1:5	CHD	
						ALT.	ALTD	
							DRN	B.Suresh
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1	 LGS/EOG			
					58116079			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.
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

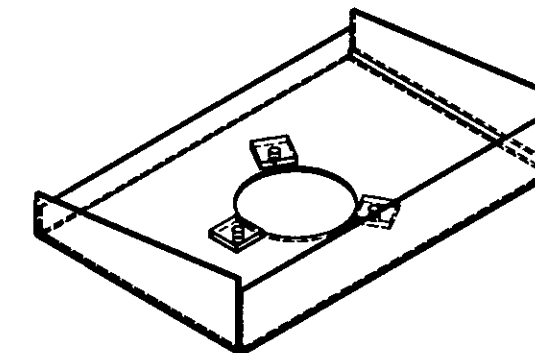
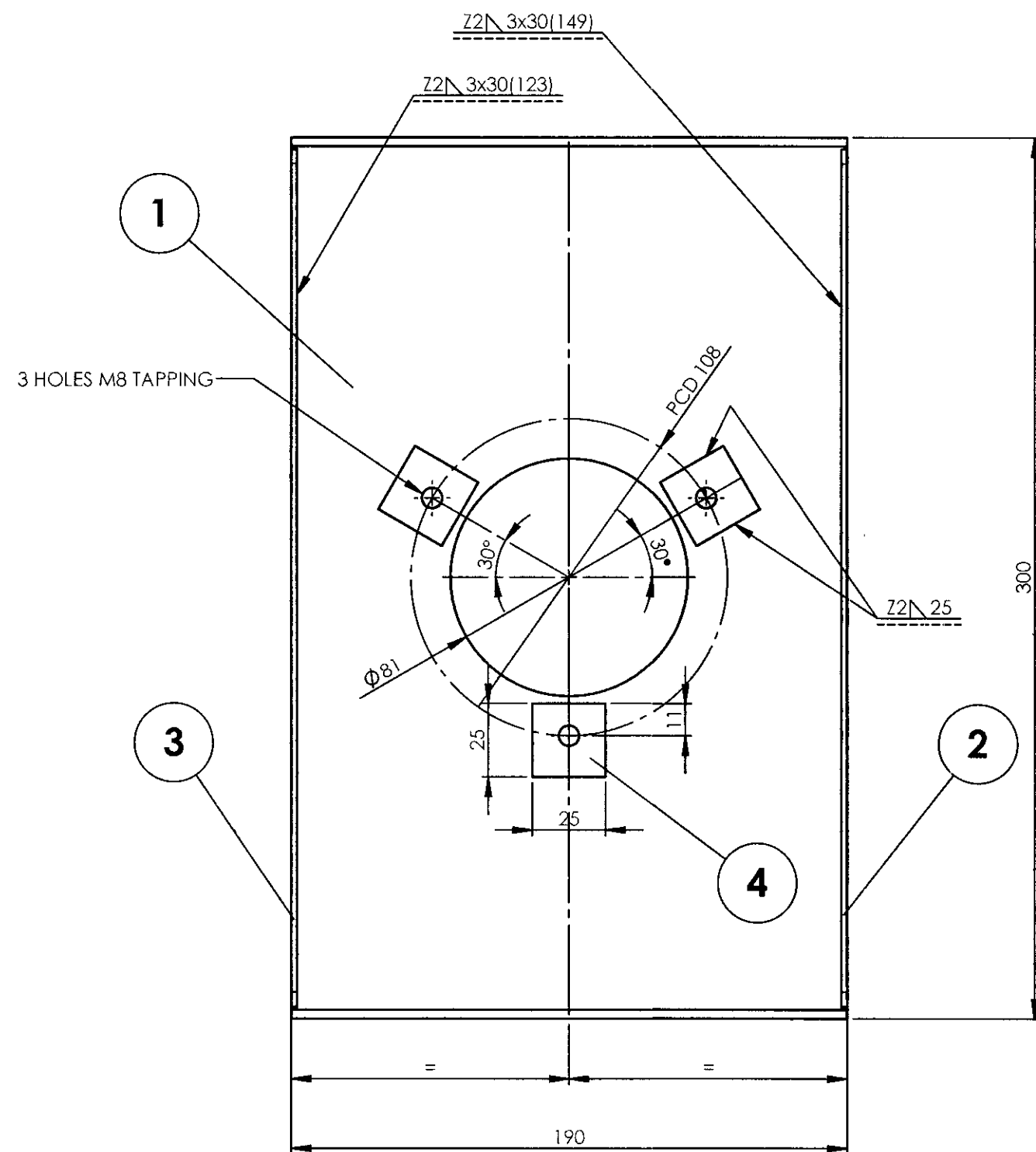
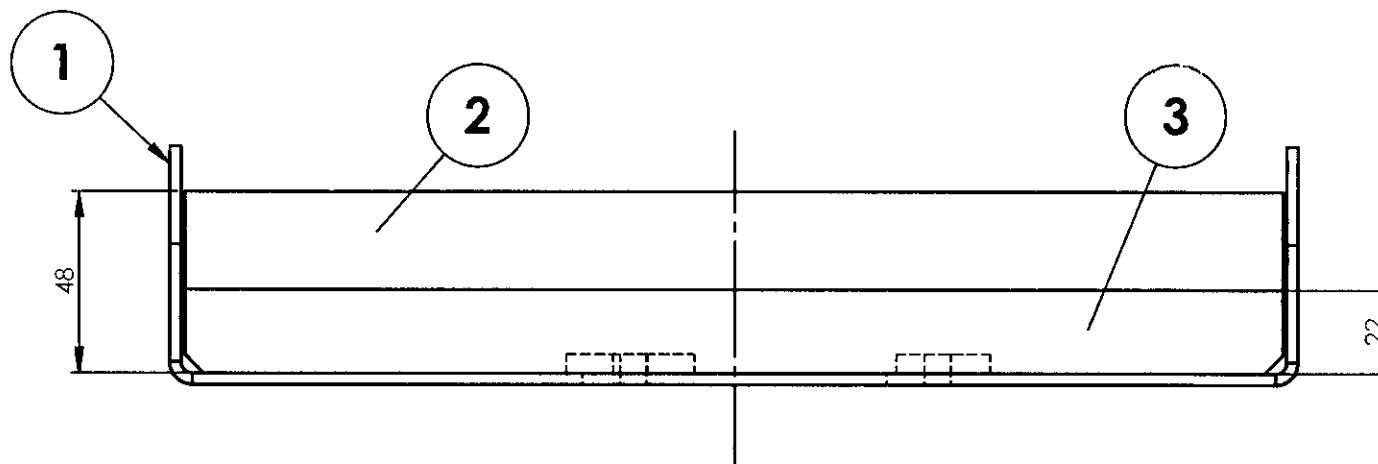
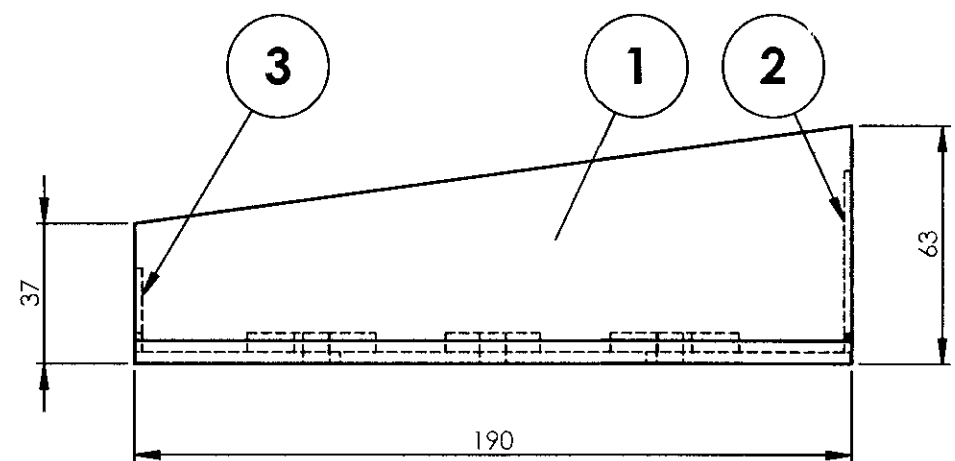
REF.DRG.NO.

03 -06-2014.	<i>B. udayan</i>
DATE OF LATEST ALT.	DATE OF FIRST ISSUE
	AME/SME

58116081

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		ITEM-5 DELETED. WELDING & NOTES REVISED. VIEWS UPDATED.	

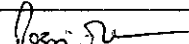



ISOMETRIC VIEW

NOTE:

1. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC C-K201 SHALL BE USED FOR WELDING.
2. ALL WELDINGS SHALL BE TIG WELDING UNLESS OTHERWISE SPECIFIED.
3. ALL WELD SPATTERS SHALL BE GROUND.
4. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
5. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
6. ALL WELD PERFORMANCE CLASS SHALL BE **CP C2** UNLESS OTHERWISE SPECIFIED.
7. FOR WELD TESTING PREFERANCES REFER DRG. No. ICF/STD-9-0-998.
8. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.


1	BRACKET FOR FAN-CONNECTOR		5	58216030		35.26	
3	BACK PIECE		4	AAB16216		0.025	
1	CLOSING PLATE		3	AAB16232		0.10	
1	CLOSING PLATE		2	AAB16231		0.22	
1	CHANNEL		1	AAB16230		1.66	
Default	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS

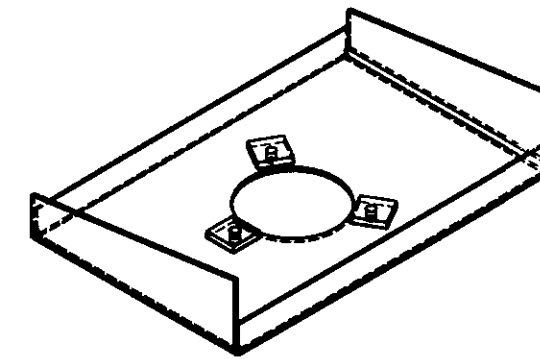
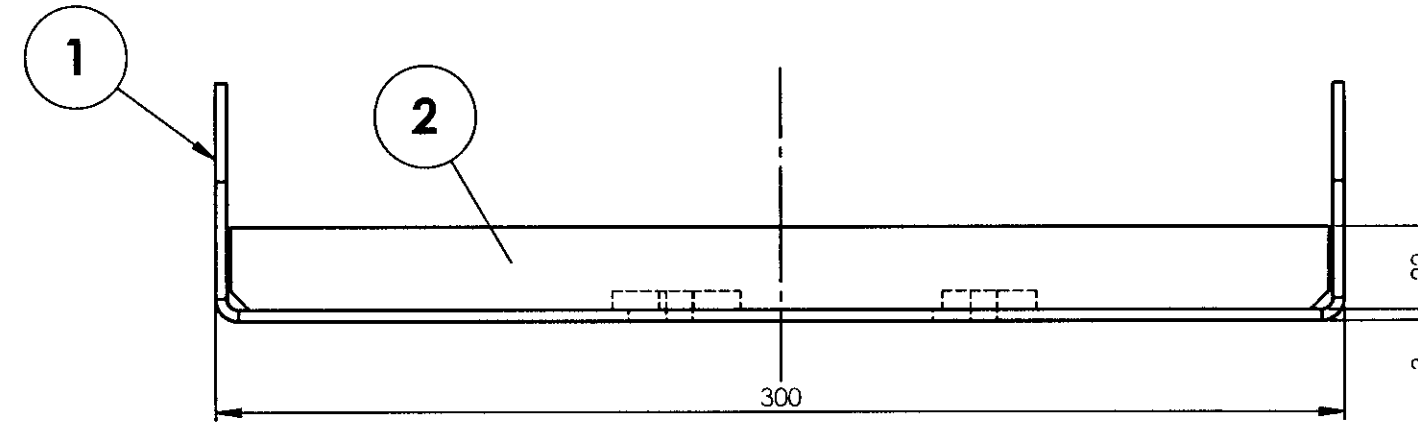
GROUP: 1-6		SURFACE AREA IN Sq.m.: 0.191		WT/ASSY IN Kgs:		
FAN BRACKET				SCALE 1:2	SSE/Ø	
					CHD	
				ALT a	ALTD	AMAL GEORGE
					DRN	P.MURUGAN
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038			SHEET 1 OF 1		LGS/EOG	
					58116081	
					A2	

12-2024	17-11-2014	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

REF.DRG.NO.LG16151 AH 'Nil'


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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		ITEM-4 DELETED. WELDING & NOTES REVISED. VIEWS UPDATED.	



NOTE:

1. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC C-K201 SHALL BE USED FOR WELDING.
2. ALL WELDINGS SHALL BE TIG WELDING UNLESS OTHERWISE SPECIFIED.
3. ALL WELD SPATTERS SHALL BE GROUND.
4. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
5. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
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.

16-12-2024	28-11-2018	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

REF.DRG.NO.LG16151 Alt 'Nil'

131 \searrow $\frac{z^2}{15}$

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



REF.DRG.NO.LS16167 Alt 'Nil'

BRACKET FOR FAN CONNECTOR

SHEET
1 OF 1

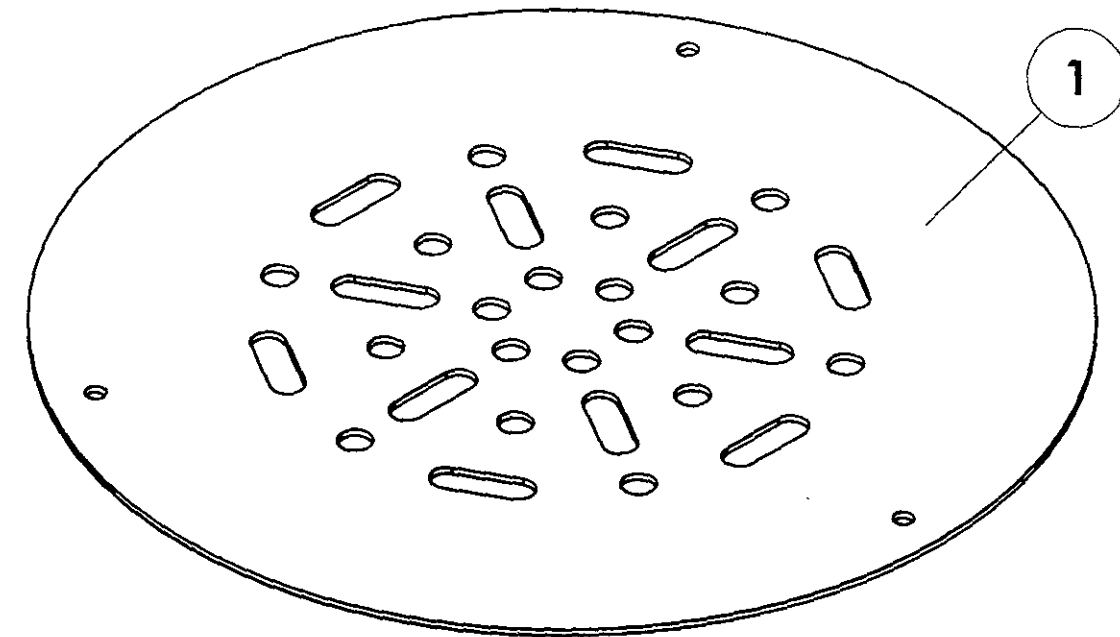
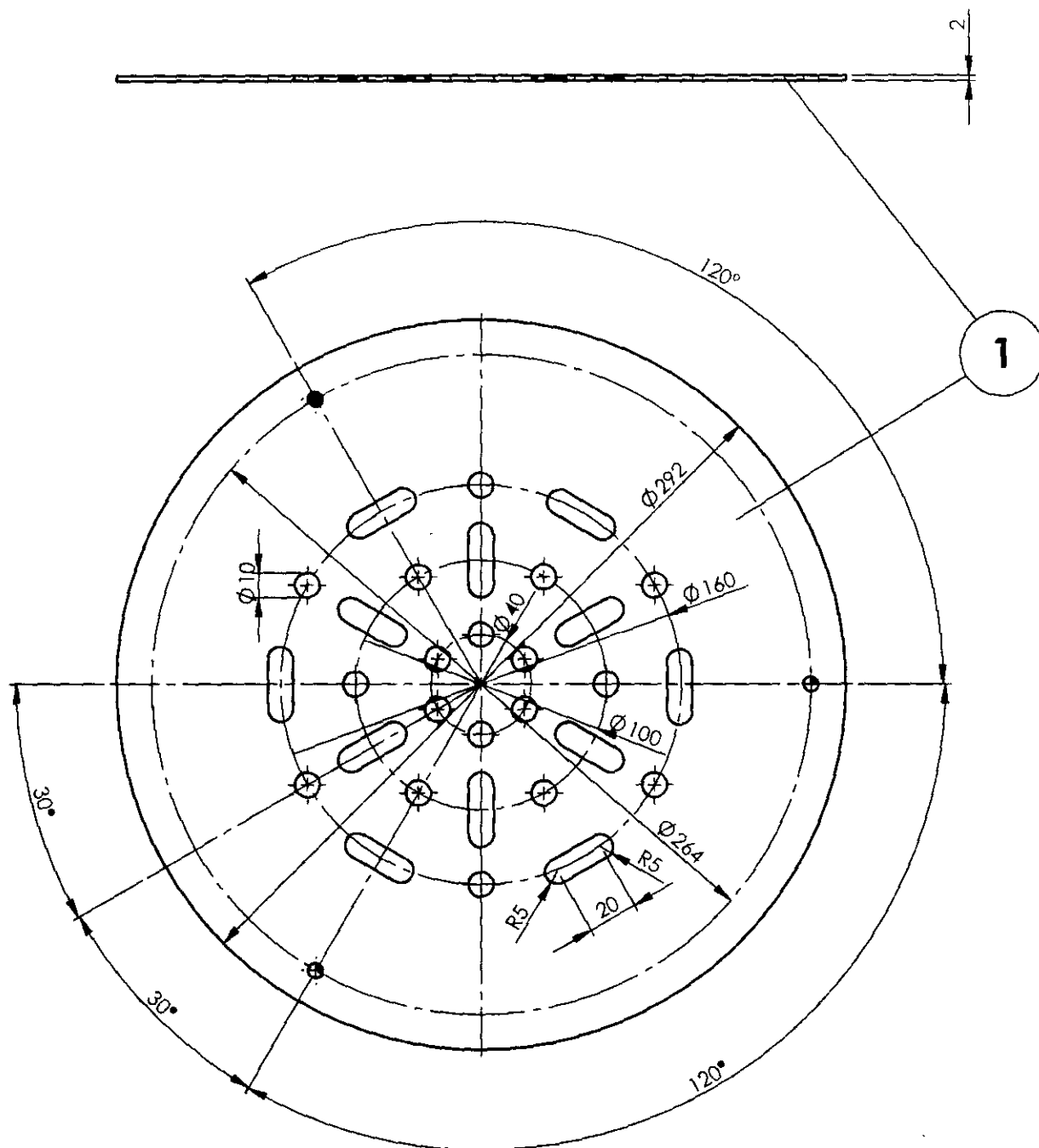
A3

AAA16840

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

REVISIONS

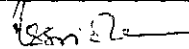
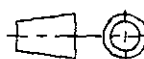
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		NOTE-1 ADDED.	<i>[Signature]</i>



ISOMETRIC VIEW

NOTE:

1. ALTERNATIVELY AISI 304 / SS 304 (X02Cr19Ni10) / IS 6911(X04Cr19Ni9) ARE ALSO ACCEPTABLE.

1	GRILL PLATE	2x292x292	1		RDSO/SPEC C- K201 X5 Cr Ni 18 10	0.99	
Default	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6 Roof Construction			SURFACE AREA IN Sq.m.:0.13		WT/ASSY IN Kgs:0.99		
GRILL PLATE					SCALE	SSE/D	
					1:2.5	CHD	
					ALT. a	ALTD	Kunti Thakur
						DRN	S.Bala V.Subramani
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY CHENNAI - 600038							
					SHEET 1 OF 1	AAA16840	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.

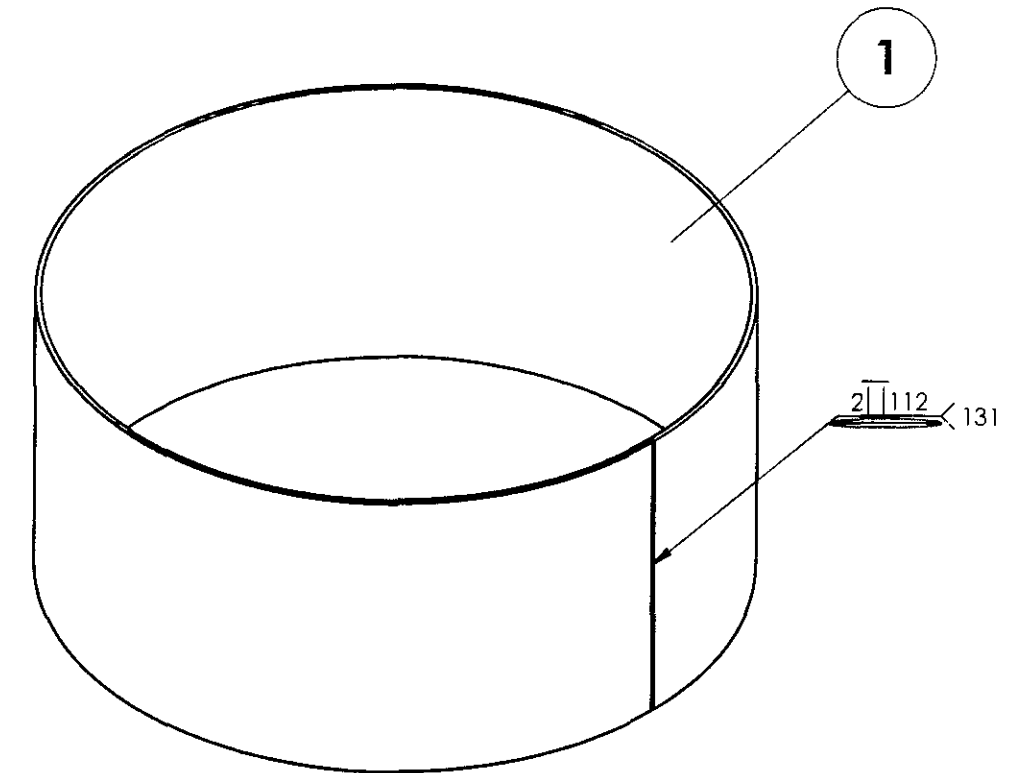
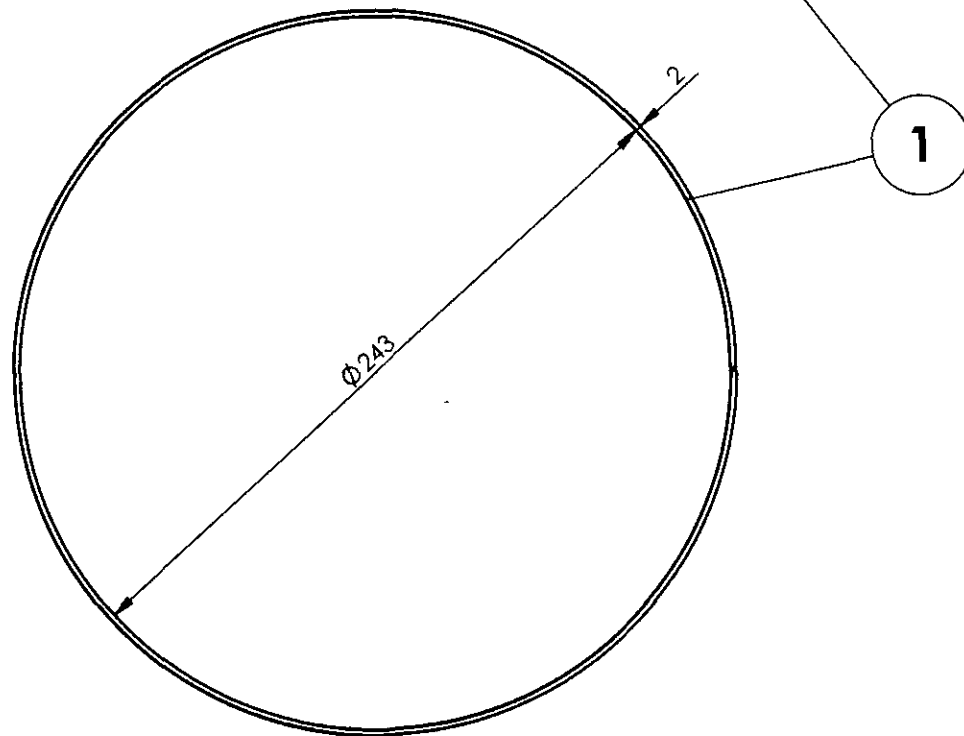
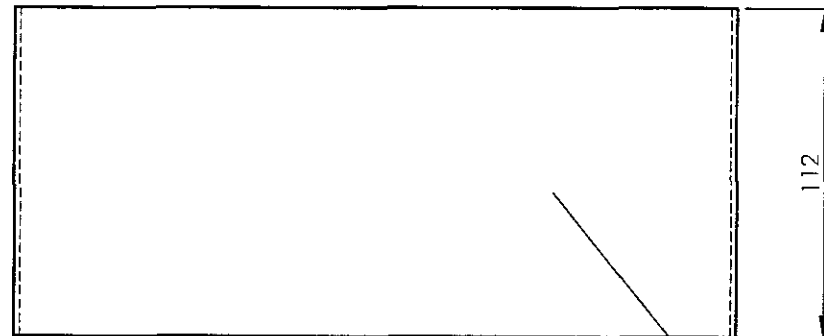
REF.DRG.NO.LS16175

23 -04-2025	31-07-2013	<i>[Signature]</i>
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

AAA16841

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		NOTE-1 ADDED.	



ISOMETRIC VIEW

NOTE:

1. ALTERNATIVELY AISI 304 / SS304 (X02Cr19Ni10) / IS 6911 (X04Cr19Ni9) ARE ALSO ACCEPTABLE.

1	TUBE FOR VENTILLATOR	2x112x769	1		RDSO/SPEC C-K201 X5 Cr Ni 18 10	1.38	
Default	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6 Roof Construction				SURFACE AREA IN Sq.m.:0.18		WT/ASSY IN Kgs: 1.38	
TUBE FOR VENTILLATOR					SCALE	SSE/D	Kunti Thakur
					1:2.5	CHL	
					ALT.	ALT D	S.Bala V Subramani
					a	DRN	
INDIAN RAILWAY STANDARDS					SHEET 1 OF 1		AAA16841
INTEGRAL COACH FACTORY CHENNAI - 600038							A3

23 -04-2025	31-07-2013	gh
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

REF.DRG.NO.LS16174

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		2		3		4		5		6		7		8	
AAA16842				▽ ROUGH MACHINED		②1 ROUGH CLEANED		REVISIONS							
				▽▽ FINISH MACHINED		①1b BURRS REMOVED		ALT.		ZONE		DESCRIPTION		APPROVED & DATE	
				▽▽▽ FINE FINISH MACHINED		①8 CHAMFERED		a				MATERIAL SPEC. ATERED AND NOTE-1 ADDED.			

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

NOTE:

1. ALTERNATIVELY AISI 304 / SS304 (X02Cr19Ni10) / IS 6911(X04Cr19Ni9) ARE ALSO ACCEPTABLE.

1	RING	2x315x315	1		RDSO SPEC C-K201 X5 Cr Ni 18 10	0.47	
Default	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6 Roof Construction		SURFACE AREA IN Sq.m.:		WT/ASSY IN Kgs: 0.47			
RING					SCALE	SSE/D	
					1:2.5	CHD	
					ALT.	ALTD	Kunti Thakur
a	DIRN	S.Bala V.Subramani					
INDIAN RAILWAY STANDARDS					SHEET 1 OF 1		AAA16842
INTEGRAL COACH FACTORY CHENNAI 600018							
23-04-2025	31-07-2013					A3	
DATE OF LATEST ALT	DATE OF FIRST ISSUE	AME/SME					

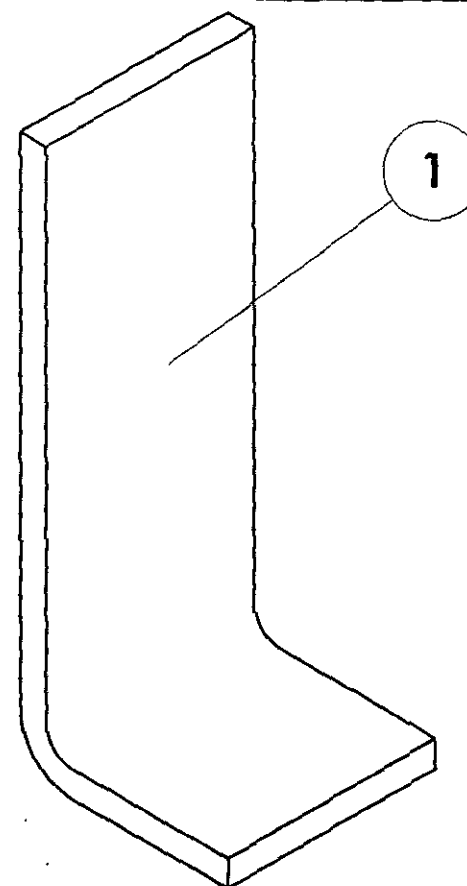
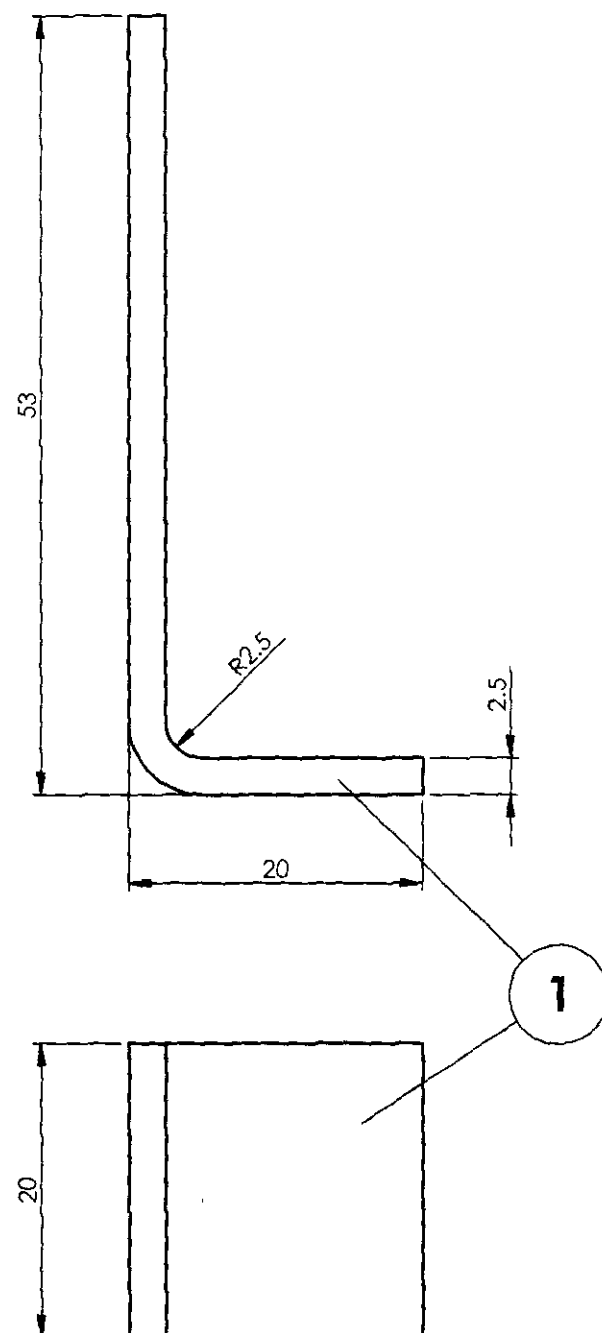
REF.DRG.NO.LG16114		23-04-2025		31-07-2013			
		DATE OF LATEST ALT		DATE OF FIRST ISSUE		AME/SME	

1		2		3		4		5		6		7		8																																																																												
AAA16843				▽ ROUGH MACHINED		① ROUGH CLEANED		REVISIONS																																																																																		
				▽▽ FINISH MACHINED		①① BURRS REMOVED		ALT.		ZONE		DESCRIPTION		APPROVED & DATE																																																																												
				▽▽▽ FINE FINISH MACHINED		①①① CHAMFERED		a				NOTE-1 ADDED.																																																																														
<div>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</div> <div></div> <div>NOTE: 1. ALTERNATIVELY AISI 304 / SS 304 (X02Cr19Ni10) / IS 6911(X04Cr19Ni9) ARE ALSO ACCEPTABLE.</div> <table><tr><td>1</td><td>BASE PLATE</td><td>2x292x292</td><td>1</td><td></td><td>RDSO/SPEC C-K201 X5 Cr Ni 18 10</td><td>0.395</td><td></td></tr><tr><td>Default</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: 1-6 Roof Construction</td><td colspan="3">SURFACE AREA IN Sq.m.:0.053</td><td colspan="3">WT/ASSY IN Kgs:0.395</td></tr><tr><td colspan="5" rowspan="2">BASE PLATE</td><td>SCALE</td><td>SSE/D</td><td rowspan="2"></td></tr><tr><td>1:2.5</td><td>CHD</td></tr><tr><td colspan="5" rowspan="2">INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY CHENNAI 600038</td><td>ALT.</td><td>ALTD</td><td>Kuntii Thakur</td></tr><tr><td>a</td><td>DRN</td><td>S.Bala V.Subramani</td></tr><tr><td colspan="5"></td><td colspan="2"></td><td></td></tr><tr><td colspan="5"></td><td colspan="2">SHEET 1 OF 1</td><td>AAA16843</td></tr><tr><td colspan="5"></td><td colspan="2"></td><td>A3</td></tr></table> <div>REF.DRG.NO.LS16152</div> <table><tr><td>23-04-2025</td><td>31-07-2013</td><td></td></tr><tr><td>DATE OF LATEST ALT</td><td>DATE OF FIRST ISSUE</td><td>AME/SME</td></tr></table>																1	BASE PLATE	2x292x292	1		RDSO/SPEC C-K201 X5 Cr Ni 18 10	0.395		Default	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS	GROUP: 1-6 Roof Construction		SURFACE AREA IN Sq.m.:0.053			WT/ASSY IN Kgs:0.395			BASE PLATE					SCALE	SSE/D		1:2.5	CHD	INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY CHENNAI 600038					ALT.	ALTD	Kuntii Thakur	a	DRN	S.Bala V.Subramani														SHEET 1 OF 1		AAA16843								A3	23-04-2025	31-07-2013		DATE OF LATEST ALT	DATE OF FIRST ISSUE	AME/SME
1	BASE PLATE	2x292x292	1		RDSO/SPEC C-K201 X5 Cr Ni 18 10	0.395																																																																																				
Default	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS																																																																																			
GROUP: 1-6 Roof Construction		SURFACE AREA IN Sq.m.:0.053			WT/ASSY IN Kgs:0.395																																																																																					
BASE PLATE					SCALE	SSE/D																																																																																				
					1:2.5	CHD																																																																																				
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY CHENNAI 600038					ALT.	ALTD	Kuntii Thakur																																																																																			
					a	DRN	S.Bala V.Subramani																																																																																			
					SHEET 1 OF 1		AAA16843																																																																																			
							A3																																																																																			
23-04-2025	31-07-2013																																																																																									
DATE OF LATEST ALT	DATE OF FIRST ISSUE	AME/SME																																																																																								
1		2		3		4		5		6		7		8																																																																												

AAA16844

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

REVISIONS				APPROVED & DATE
ALT.	ZONE	DESCRIPTION		
a		MATERIAL SPEC. ALTERED.		sd/-
b		NOTE-1 ADDED.		<i>sd/-</i>



ISOMETRIC VIEW

NOTE:

1. ALTERNATIVELY AISI 304 / SS 304 (X02Cr19Ni10) / IS 6911(X04Cr19Ni9) ARE ALSO ACCEPTABLE.

1	ANGLE FOR VENTILLATOR	2.5x20x68	1		RDSO/SPEC C- K201 X5 Cr Ni 18 10	0.028	
Default	DESCRIPTION	DIMENSIONS	ITEM NO	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6 Roof Construction				SURFACE AREA IN Sq.m.:0.003		WT/ASSY IN Kgs:	
ANGLE FOR VENTILLATOR					SCALE	SSE/D	<i>Kunti Thakur</i>
					2:1	CHD	
					ALT. b	AI TD	Kunti Thakur
						DRN	S.Bala V.Subramani.
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY CHENNAI - 600038					SHEET 1 OF 1		
					AAA16844		
					A3		

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.
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

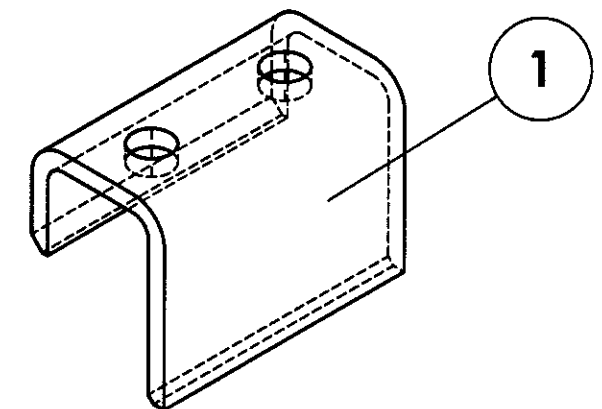
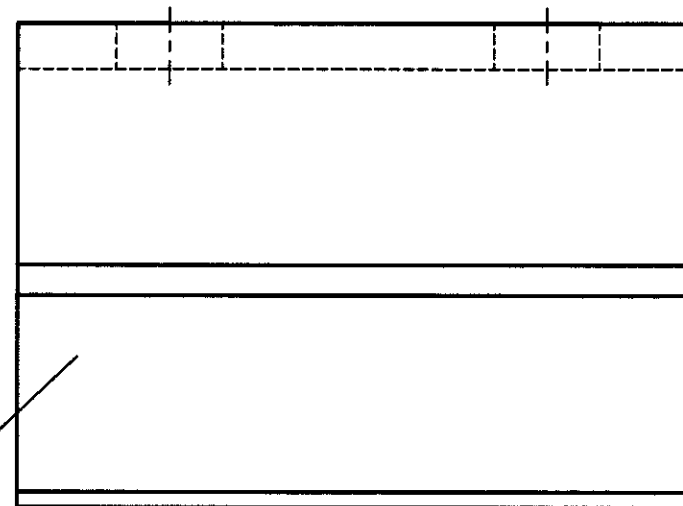
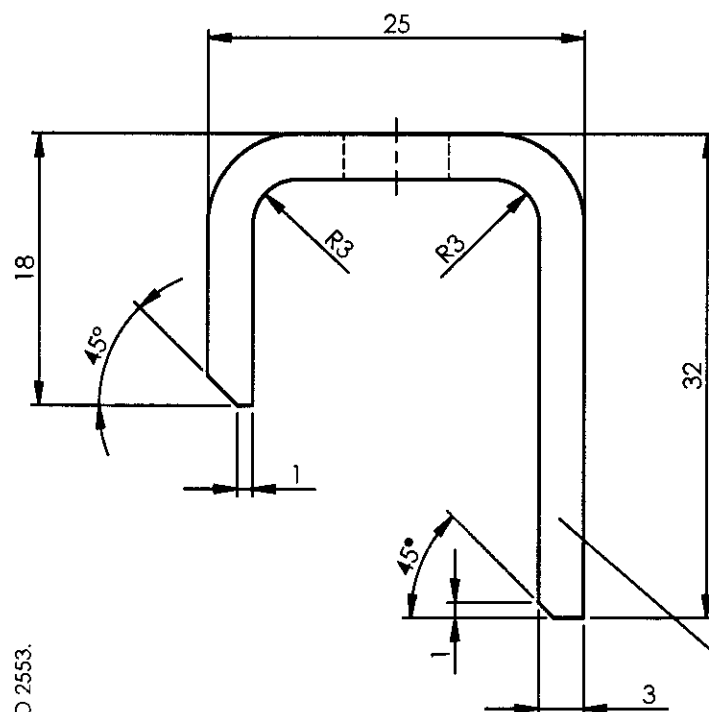
REF.DRG.NO.LS16152

03-04-2025	31-07-2013	<i>sd/-</i>
DATE OF LATEST ALT	DATE OF FIRST ISSUE	AME/SME

AAA16848

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

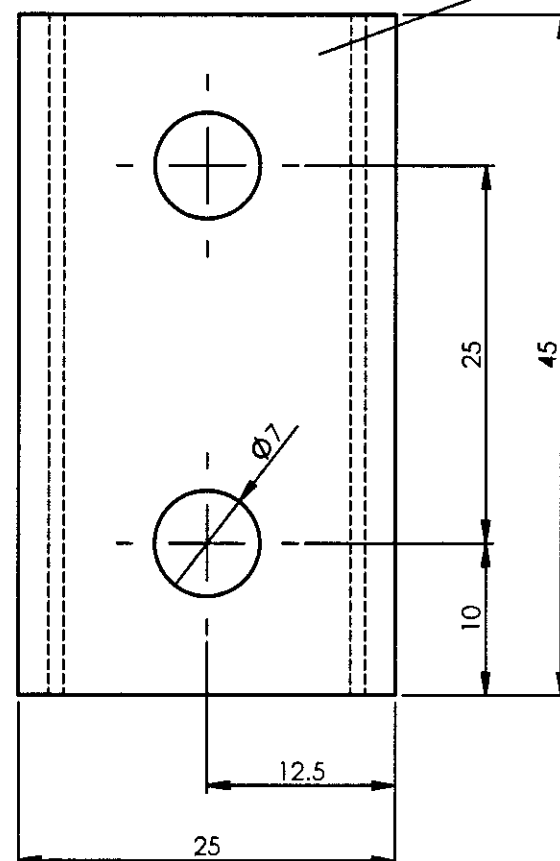
REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		DIMENSION 12 ALTERED TO DIM.18 AND R.M.SIZE ALTERED ACCORDINGLY FOR ITEM-1	-Sd-
b		RM SIZE OF ITEM-1 ALTD FROM 3.15x45x60 TO 3x45x63. NOTE ADDED.	<i>Amal George</i>

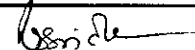
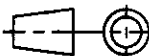


ISOMETRIC VIEW

NOTE:

1. ALTERNATIVELY AISI 304 / SS304 (X02Cr19Ni10) / IS 6911 (X04Cr19Ni9) ARE ALSO ACCEPTABLE.



1	BRACKET	3 x 45 x 63	1		RDSO/SPEC C-K201 X5 Cr Ni 18 10	0.068	
Default	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6		SURFACE AREA IN Sq.m.:0.006			WT/ASSY IN Kgs:		
BRACKET FOR VENTILATOR					SCALE	SSE/D	
					2:1	CHD	
					ALT.	ALTD	AMAL GEORGE
					b	DRN	S.Bala V subramani
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1			
INTEGRAL COACH FACTORY, CHENNAI - 600038					AAA16848		A3

REF.DRG.NO.LR16123

AAA16849

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

① ROUGH CLEANED
①b BURRS REMOVED
⑱ CHAMFERED

REVISIONS

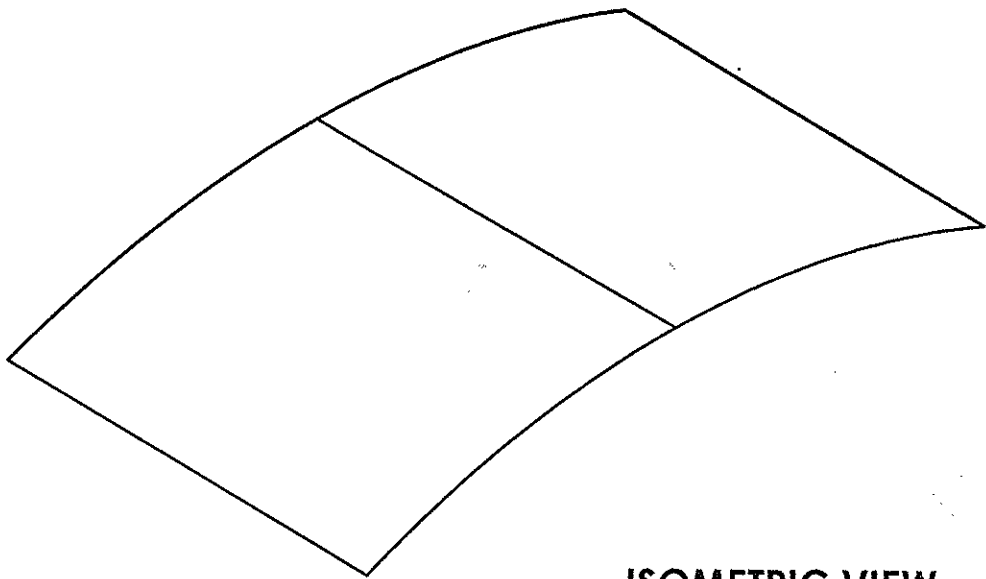
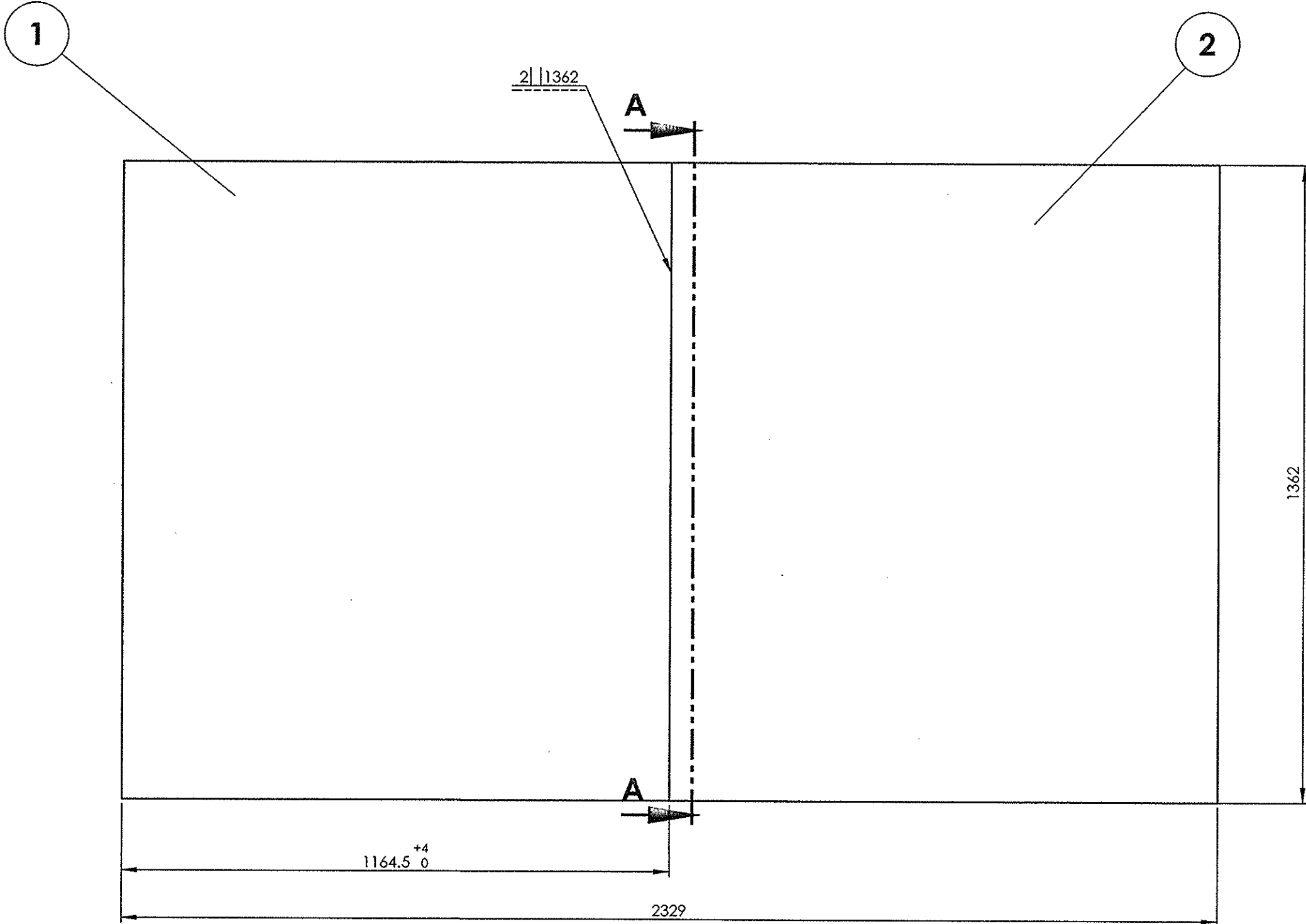
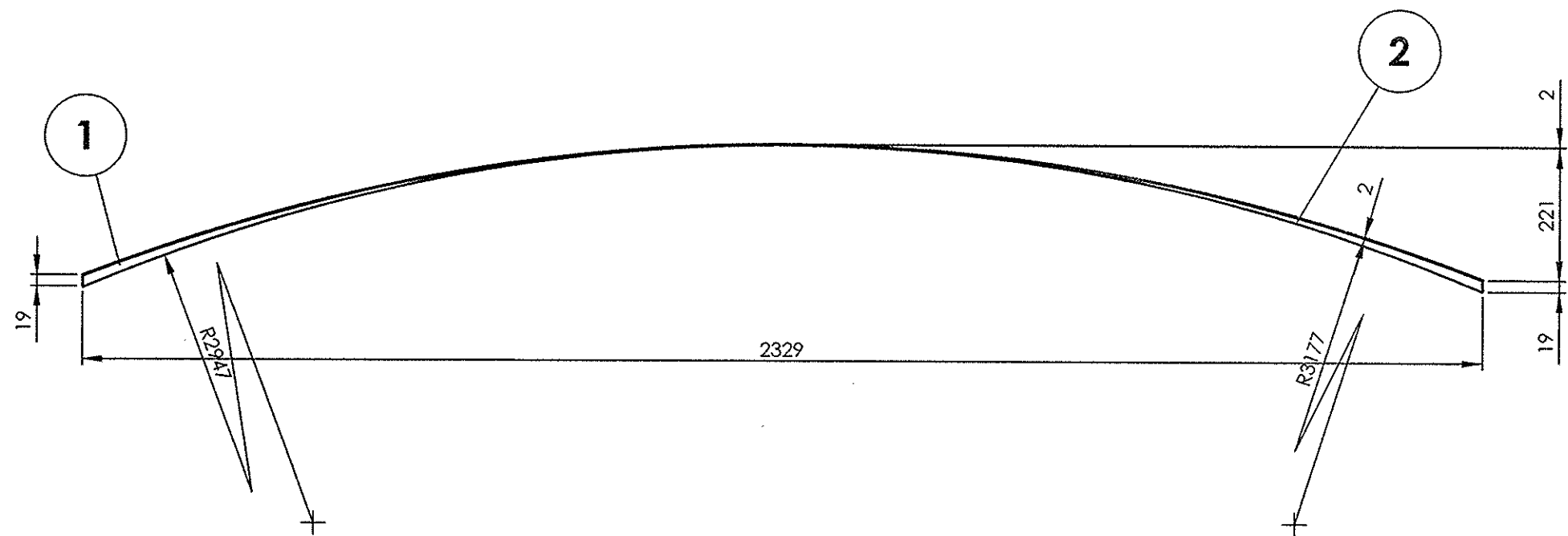
ALT.

ZONE

DESCRIPTION

APPROVED &
DATE

NOTE-1 ADDED.



ISOMETRIC VIEW

NOTE:

1. MIDDLE ROOF SHEET SHALL BE MADE WITHOUT JOINT OR WITH ONE JOINT.

SECTION A-A
SCALE 1 : 10

1	SHEET	2x1198.5x1362	2		RDSO/SPEC C-K201 XS Cr Ni 18 10		
1	SHEET	2x1198.5x1362	1		RDSO/SPEC C-K201 XS Cr Ni 18 10		
QTY.	DESCRIPTION	DIMENSION	ITEM NO.	REF. DRGS	MATL. SPEC.	WT/UNIT IN KGS	REMARKS

GROUP: 1-6

SURFACE AREA IN Sq.m.: 6.527

WT/ASSY IN Kgs: 52.051

MIDDLE ROOF SHEET FOR END PART

SCALE
1:10

SSE/D
CHD

ALT
a

ALTD
DRN

BIMAL
S.Bala V.Subramani.

INDIAN RAILWAY STANDARDS
INTEGRAL COACH FACTORY, CHENNAI - 600038

SHEET
1 OF 1

AAA16849

A2

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.

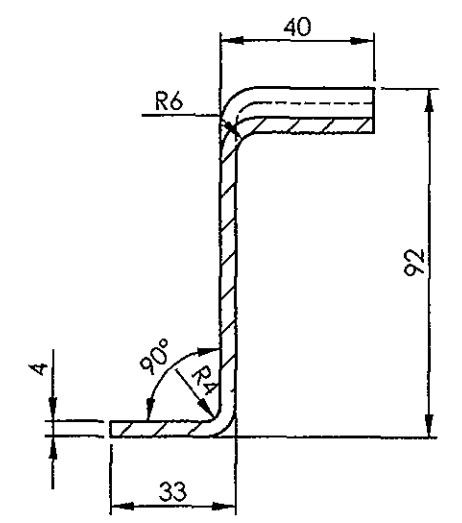
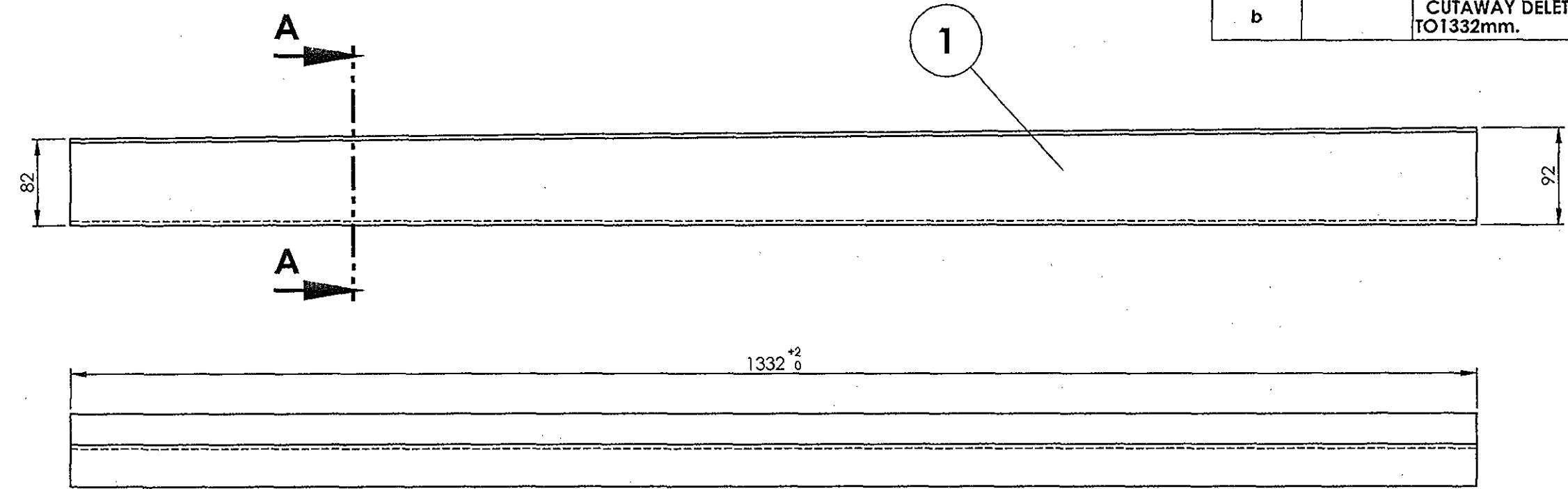
REF.DRG.NO.LG10200

11/12/17	13-08-2013	S. Balaji
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

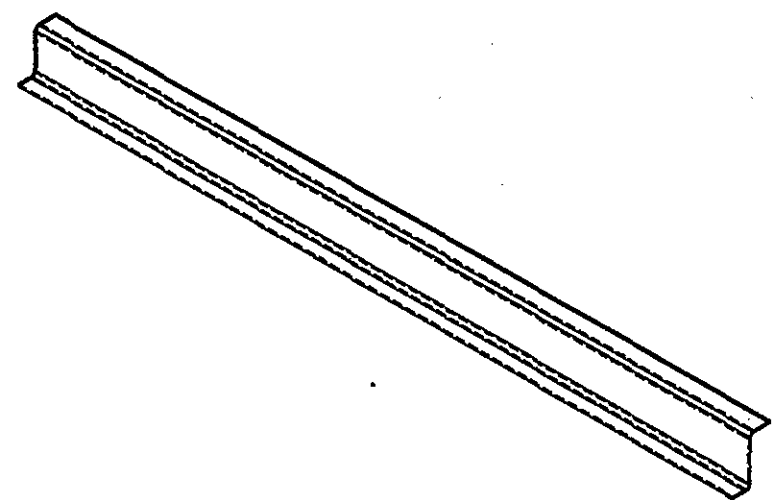
AAA16852

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


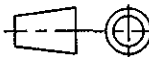
REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATL. SPEC. ALTD.	-sd-
b		CUTAWAY DELETED. LENGTH ALTD FROM 1350mm TO 1332mm.	26/6



SECTION A-A
SCALE 1 : 2



ISOMETRIC VIEW

1	Z-STIFFENER(R.H.)	4x149x1332	1		RDSO/SPEC C-K201 X2CrNi12	6.220	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6			SURFACE AREA IN Sq.m.:0.401		WT/ASSY IN Kgs:		
Z-STIFFENER(R.H.)					SCALE	SSE/D	
					1:5	CHD	
					ALT.	ALTD	T.J.Kumaravelu
					b	DRN	B.Suresh
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1			
					AAA16852		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. WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

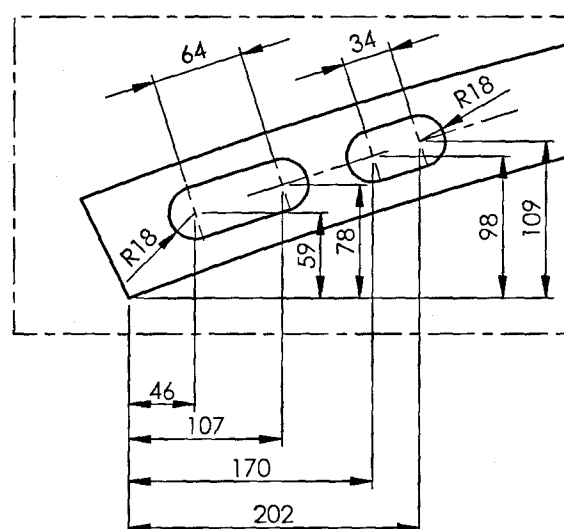
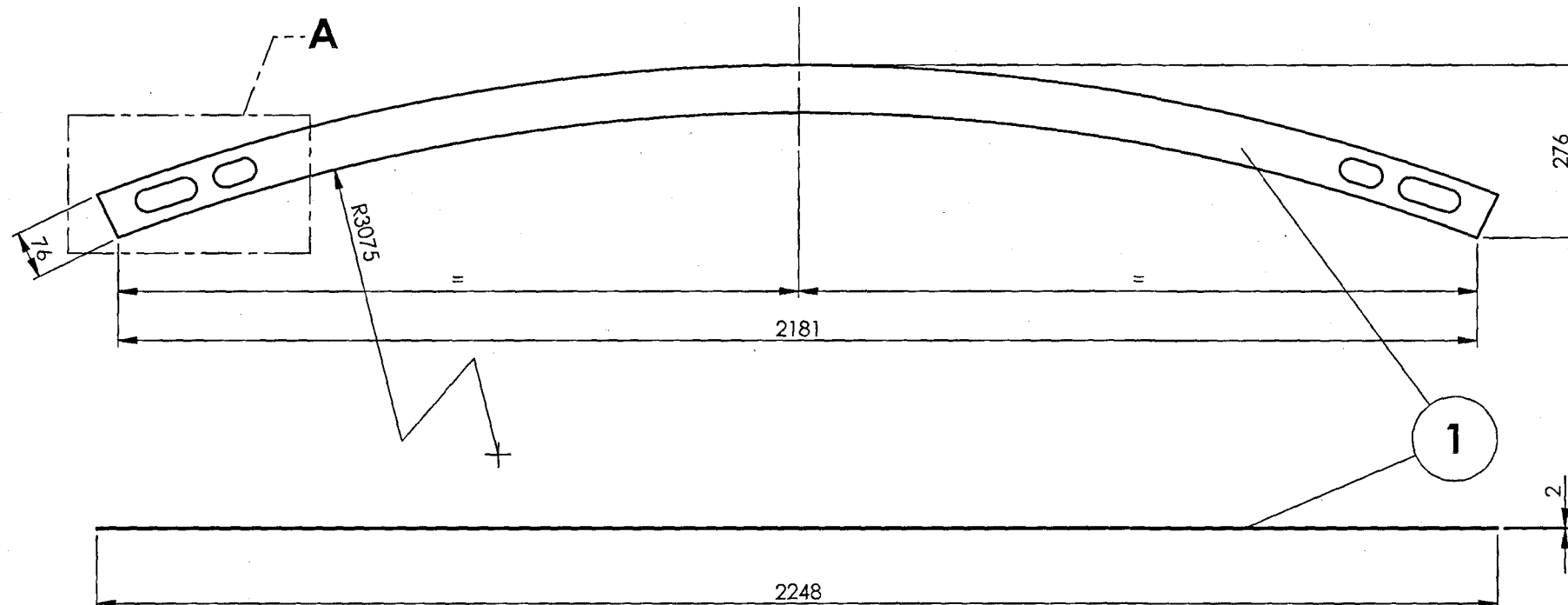
REF.DRG.NO.LG10202

26-08-2016	22-08-2013	P. Vargo
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

AAA16961

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATL. SPEC. ALT.	-sd-
b		CUTAWAY AND DETAIL VIEW-A ADDED.	-sd-
c		SIZE OF ELONGATED HOLES ALTD.	<i>11/11/20</i>

DETAIL A
SCALE 1 : 5


REF.DRG.NO.LG10192/ITEM-2

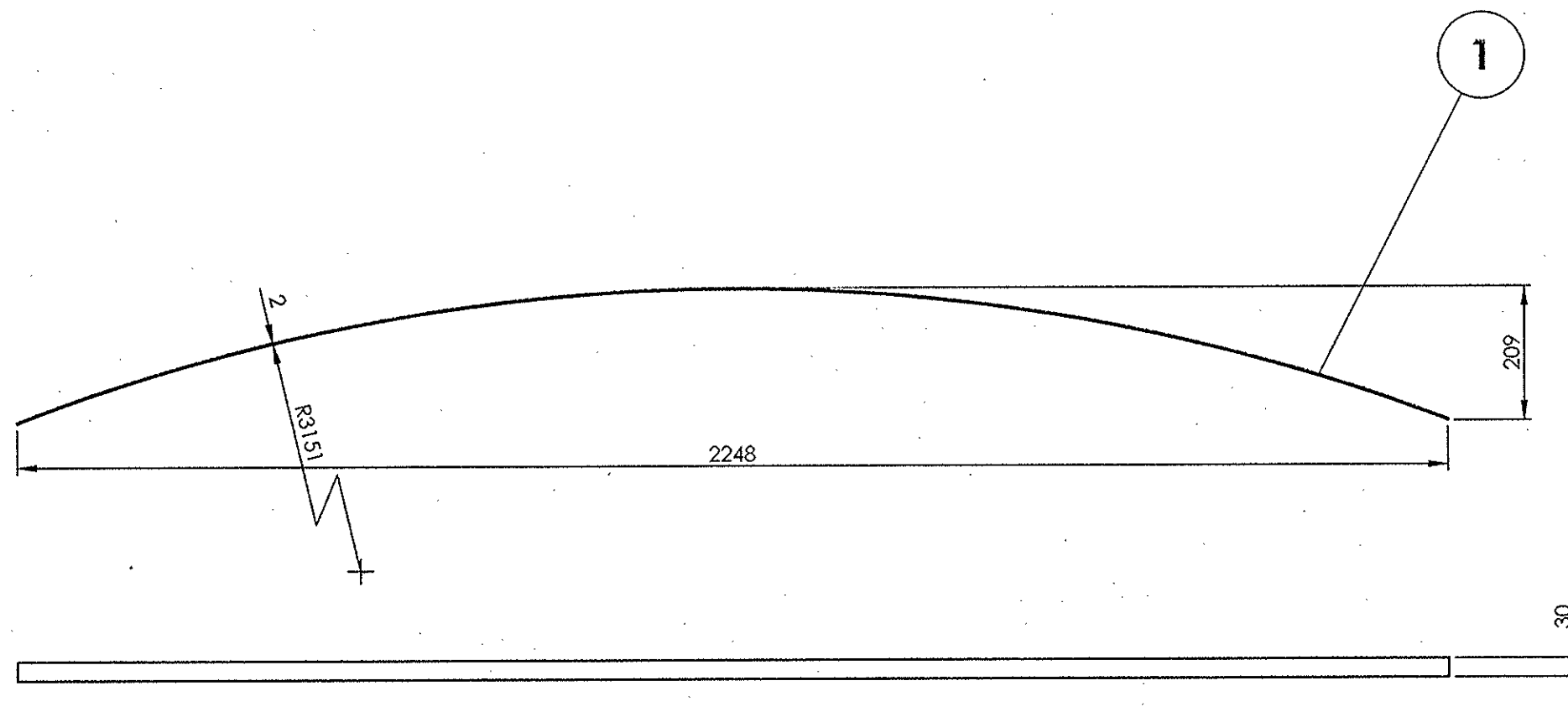
12-12-2020	13-08-2013	<i>11/11/20</i>
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

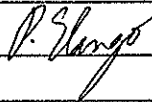
1	MIDDLE FLANGE	2x276x2248	1		RDSO/SPEC C-K201 X2CrNi12	2.575	
Default	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6				SURFACE AREA IN Sq.m.:0.333		WT/ASSY IN Kgs:	
MIDDLE FLANGE					SCALE	SSE/D	<i>11/11/20</i>
					1:10	CHD	
					ALT. c	ALTD	Kunti Thakur
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038					DRN	B.Suresh	
					SHEET 1 OF 1		
AAA16961						A3	

AAA16962

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①⑤ BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	①⑧ CHAMFERED

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATL. SPEC. ALTD.	 12/11



1	TOP FLANGE	2x30x2299	1		RDSO/SPEC C-K201 X2CrNi12	1.104	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6		SURFACE AREA IN Sq.m.:0.147			WT/ASSY IN Kgs:		
TOP FLANGE					SCALE	SSE/D	
					1:10	CHD	
					ALT.	ALTD	MATHANKUMAR.J
					a	DRN	B.Suresh
					INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038		
SHEET 1 OF 1							
AAA16962		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.
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

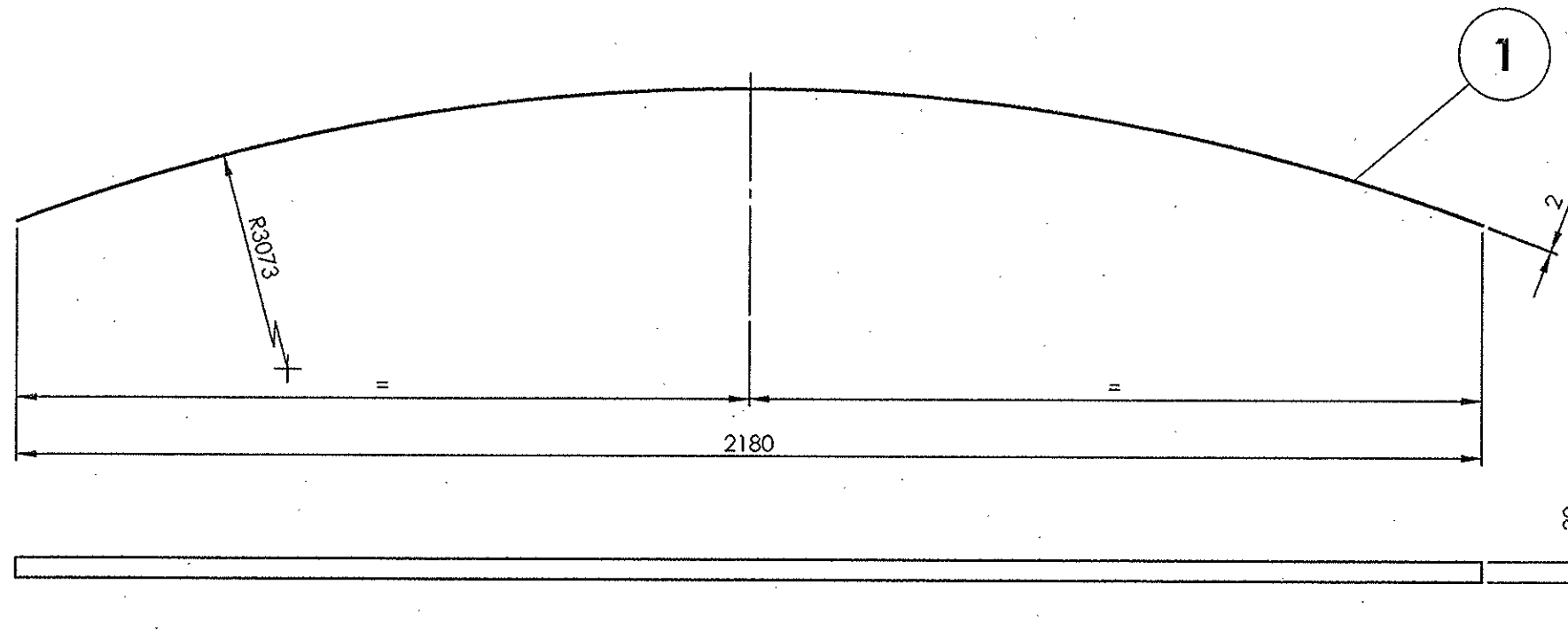
REF.DRG.NO.LG10192/ITEM-1

19-11-2015	13-08-2013	18.11.15
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

AAA16963

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



REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATL. SPEC. ALTD.	<i>A</i> 19/11



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.
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

REF.DRG.NO.LG10192/ITEM-3

19-11-2015	13-08-2013	<i>A. Sme</i>
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

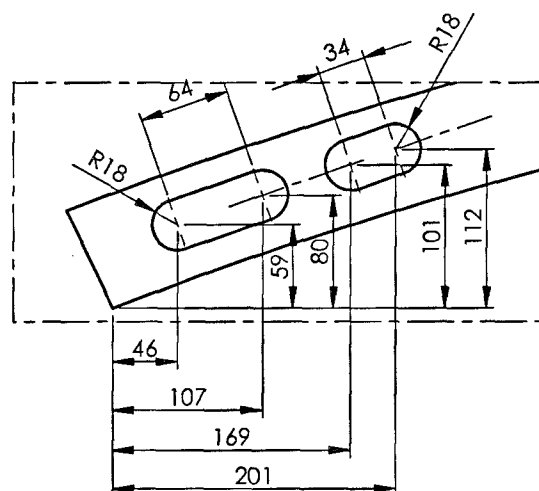
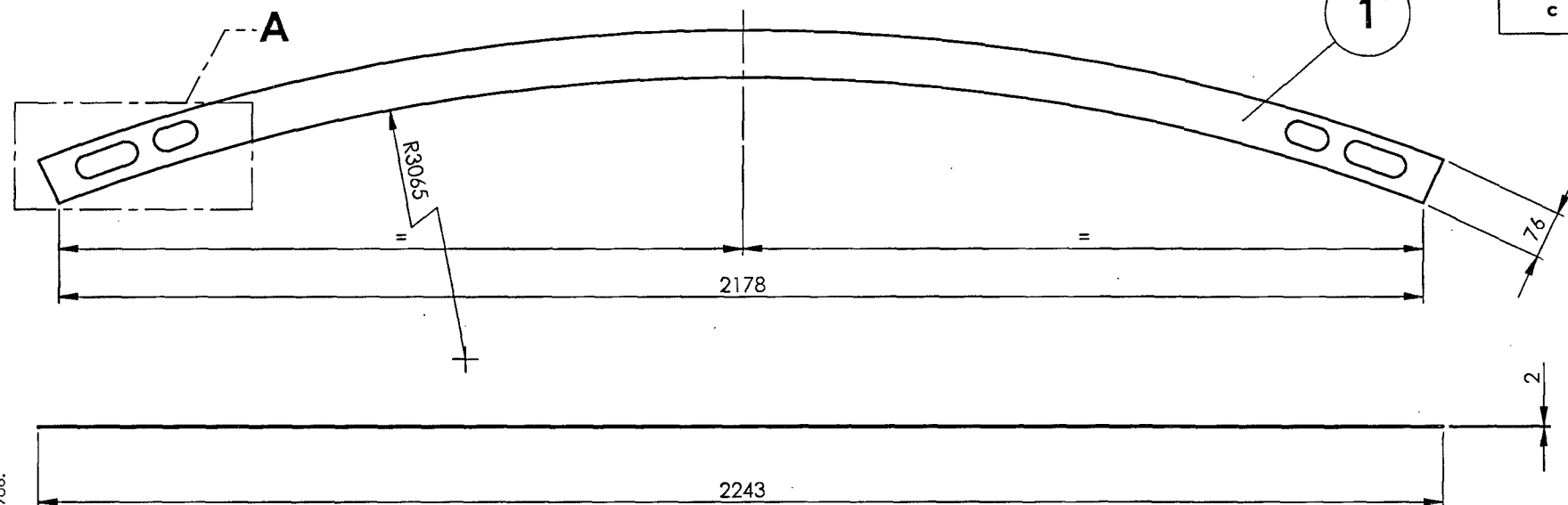
1	BOTTOM FLANGE	2x30x2229	1		RDSO/SPEC C-K201 X2CrNi12	1.070	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6			SURFACE AREA IN Sq.m.:0.143			WT/ASSY IN Kgs:	
BOTTOM FLANGE					SCALE	SSE/D	
					1:10	CHD	
					ALT. a	ALTD	MATHANKUMAR.J
						DRN	B.Suresh
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1			
INTEGRAL COACH FACTORY, CHENNAI - 600038					AAA16963		A3

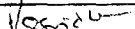
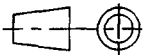
AAA16964

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

REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATL. SPEC. ALT.	-Sd-
b		CUTAWAY AND DETAIL VIEW-A ADDED.	-Sd-
c		SIZE OF ELONGATED HOLES ALTD.	<i>[Signature]</i>

DETAIL A
SCALE 1 : 5

1	MIDDLE FLANGE	2x279x2243	1		RDSO/SPEC C-K201 X2CrNi12	2.570	
Default	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6		SURFACE AREA IN Sq.m.:0.332			WT/ASSY IN Kgs:		
MIDDLE FLANGE					SCALE	SSE/D	
					1:10	CHD	
					ALT. c	ALTD	Kunti Thakur
						DRN	B.Suresh
INDIAN RAILWAY STANDARDS							
INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1	AAA16964		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.
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

REF.DRG.NO.LG10194/ITEM-2

12-12-2020

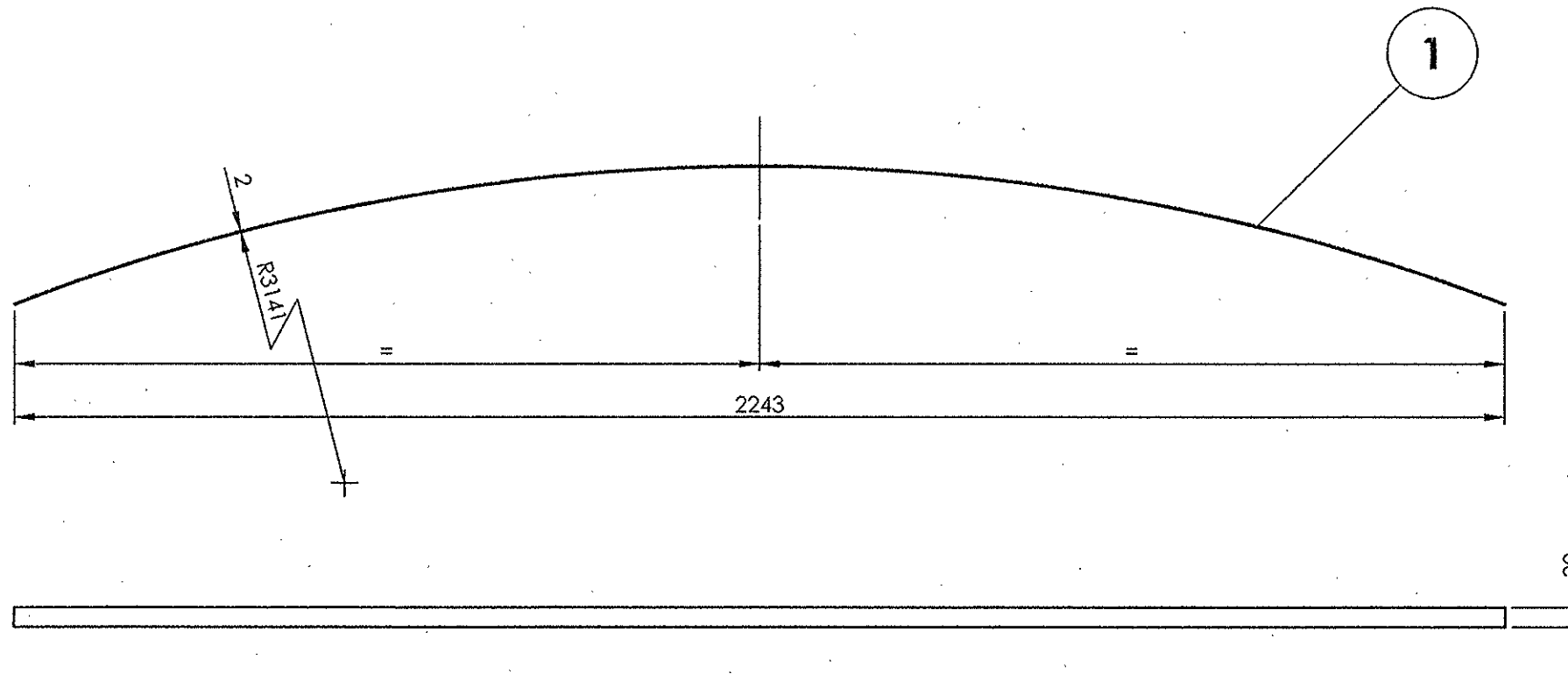
13-08-2013

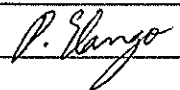
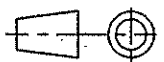
AME/SME

AAA16965

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATL. SPEC. ALTD.	<i>1</i> 191"




1	TOP FLANGE	2x30x2297	1		RDSO/SPEC C-K201 X2CrNi12	1.101		
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS	
GROUP: 1-6		SURFACE AREA IN Sq.m.:0.147			WT/ASSY IN Kgs:			
TOP FLANGE					SCALE	SSE/D		
					1:10	CHD		
					ALT. a	ALTD	MATHANKUMAR J	
						DRN	B.Suresh	
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1				
					AAA16965		A3	
INTEGRAL COACH FACTORY, CHENNAI - 600038								

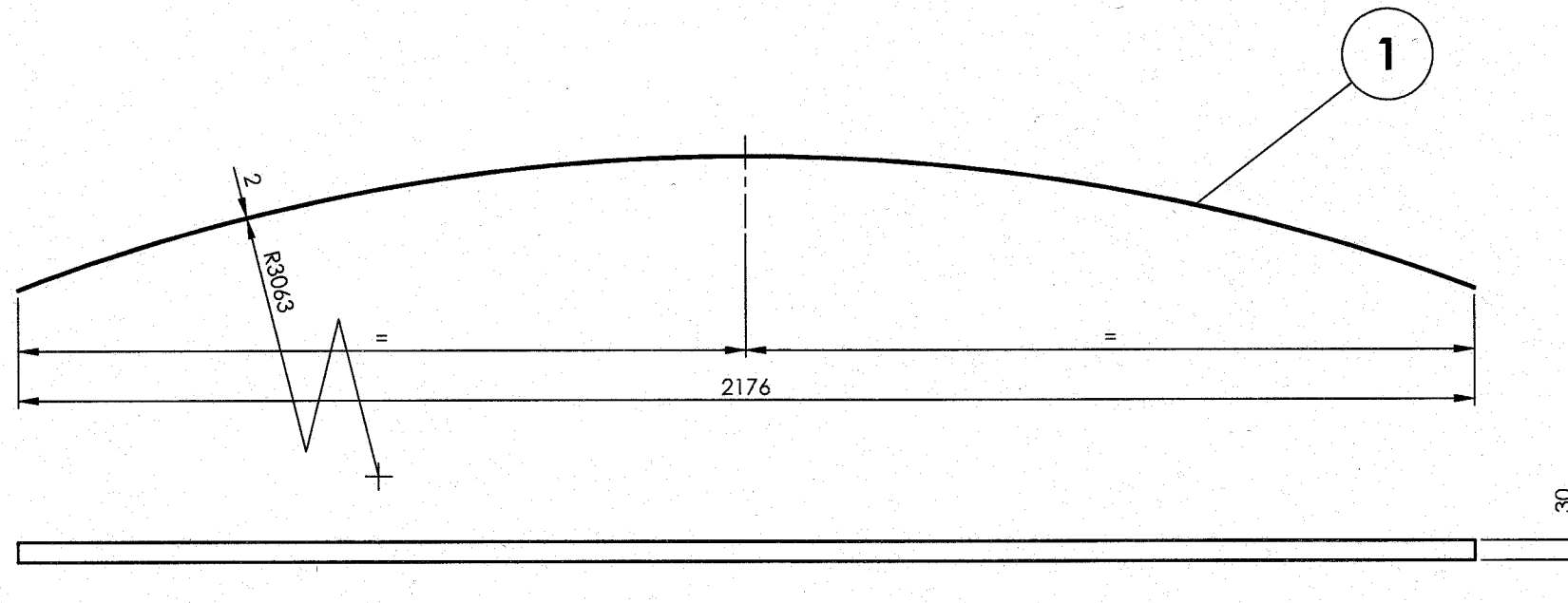
REF.DRG.NO.LG10193/ITEM-1

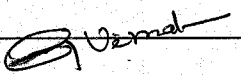

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-Q-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

AAA16966

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MALT. SPEC. ALTD.	



1	BOTTOM FLANGE	2x30x2228	1		RDSO/SPEC C-K201 X2CrNi12	1.068	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6		SURFACE AREA IN Sq.m.:0.143			WT/ASSY IN Kgs: 1.068		
BOTTOM FLANGE					SCALE	SSE/D	
					1:10	CHD	
					ALT. a	ALTD	kunti Thakur
						DRN	B.Suresh
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038							A3
					AAA16966		
					SHEET 1 OF 1		

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.

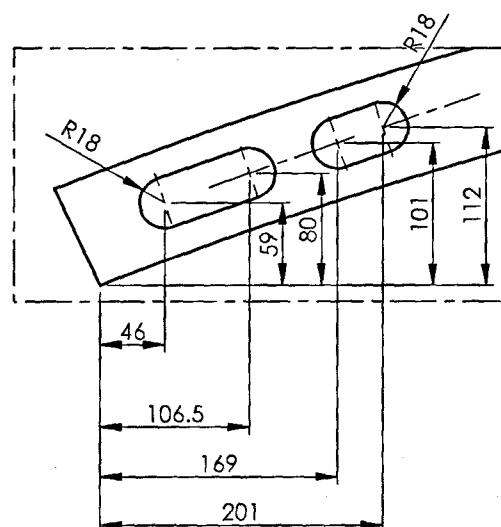
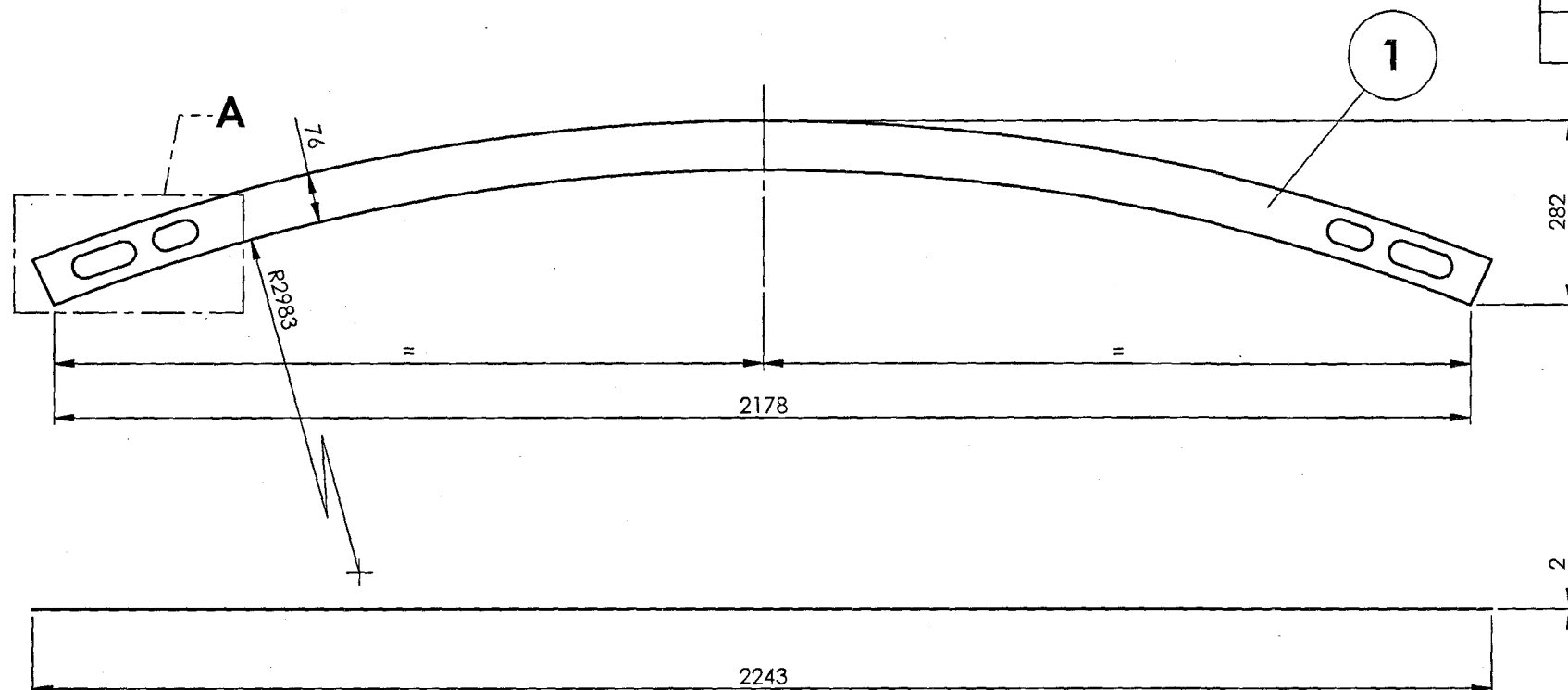
REF.DRG.NO.LG10193/ITEM-3

30.03.2018	-08-2013	[Signature]
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

AAA16967

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATL. SPEC. ALTD	-sd-
b		CUTAWAY AND DETAIL VIEW - A ADDED.	-sd-
c		SIZE OF ELONGATED HOLES ALTD.	11/14/20

DETAIL A
SCALE 1 : 5

REF.DRG.NO.LG10194/ITEM-2

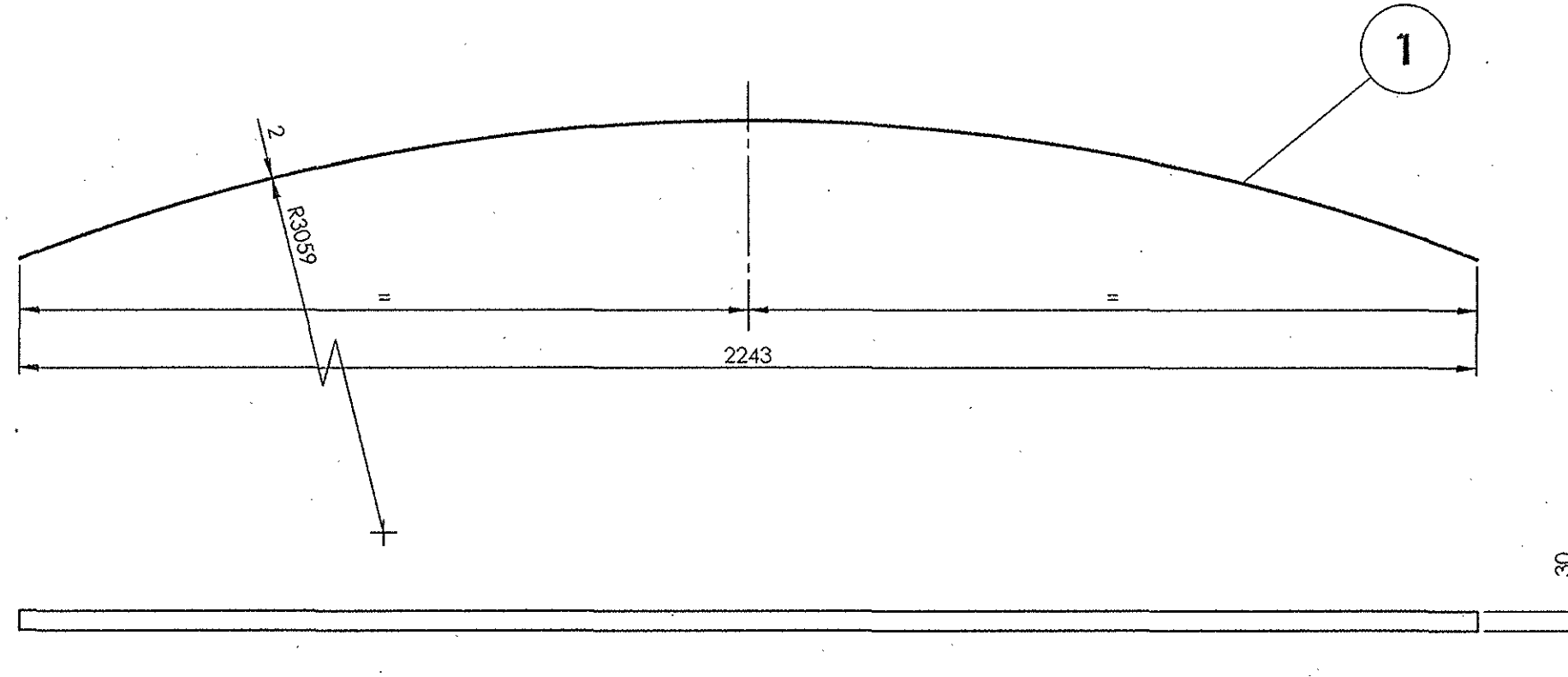
12-12-2020	13-08-2013	11/12/20
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME



1	MIDDLE FLANGE	2x282x2243	1		RDSO/SPEC C-K201 X2CrNi12	2.574	
Default	DESCRIPTION	Dimensions	ITEM NO	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6 Roof Construction				SURFACE AREA IN Sq.m.:0.333		WT/ASSY IN Kgs:	
MIDDLE FLANGE					SCALE	SSE/D	11/14/20
					1:10	CHD	
					ALT. c	ALTD	Kunti Thakur
INDIAN RAILWAY STANDARDS					DRN	B.Suresh	
					SHEET 1 OF 1		
INTEGRAL COACH FACTORY, CHENNAI - 600038					AAA16967		A3

AAA16968

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATL.SPEC.ALTD.	<i>[Signature]</i> 19/10



1	TOP FLANGE	2X30X2298	1		RDSO/SPEC C- K201 X2CrNi12	1.103	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6		SURFACE AREA IN Sq.m.:0.147			WT/ASSY IN Kgs:		
TOP FLANGE					SCALE	SSE/D	
					1:10	CHD	
					ALT.	ALTD	MATHANKUMAR.J
					a	DRN	B.Suresh
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1			
INTEGRAL COACH FACTORY, CHENNAI - 600038					AAA16968		A3

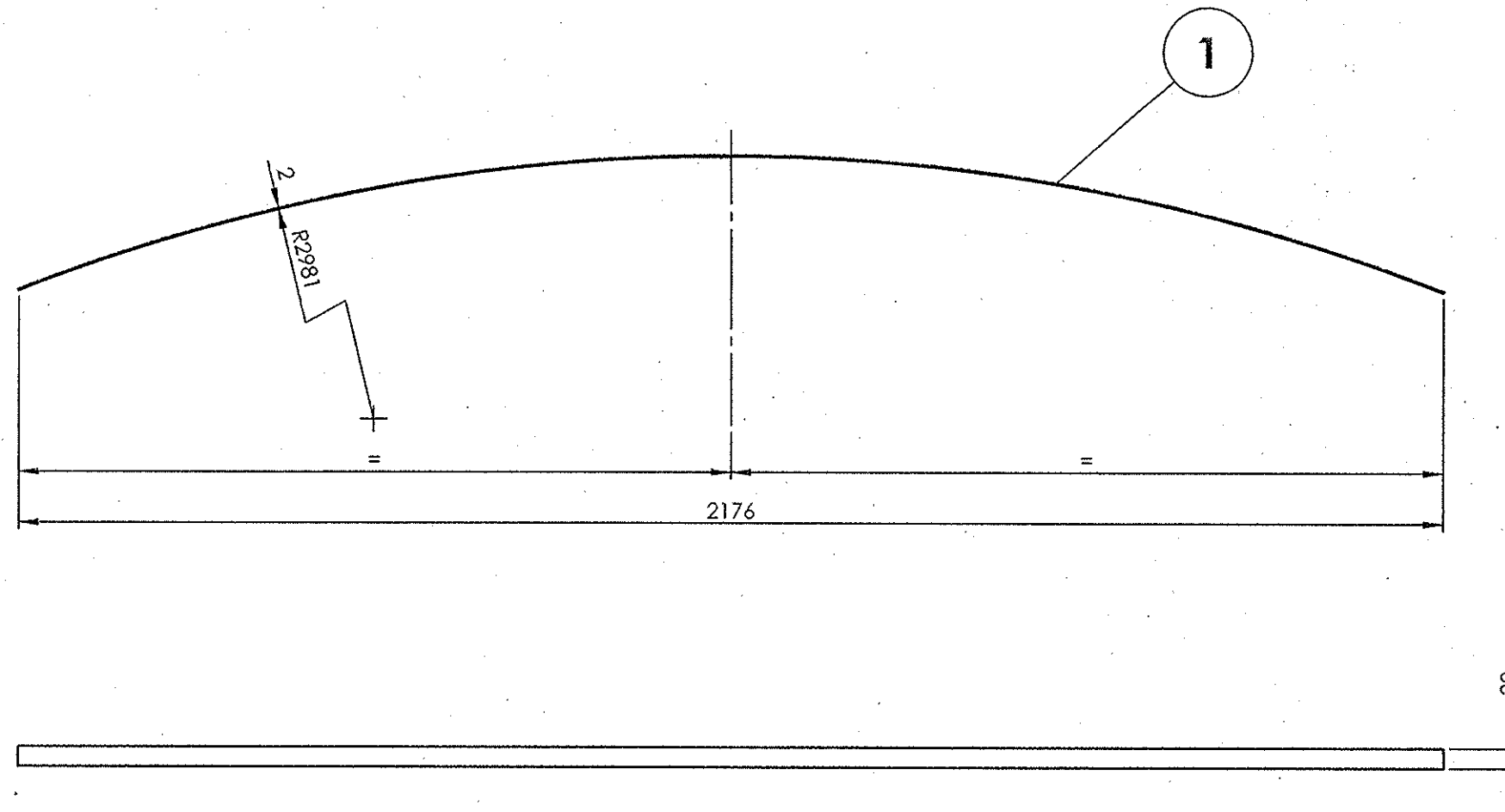
19-11-2015	13-08-2013	<i>[Signature]</i>
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

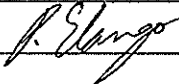
REF.DRG.NO.LG10194/ITEM-1

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.
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

AAA16969

▽▽ FINISH MACHINED		Q1b	BURRS REMOVED	ALT.	ZONE	DESCRIPTION	APPROVED & DATE
▽▽▽ FINE FINISH MACHINED		18	CHAMFERED	a		MATL. SPEC. ALTD.	19/11



1	BOTTOM FLANGE	2x30x2228	1		RDSO/SPEC C-K201 X2CrNi12	1.070	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6		SURFACE AREA IN Sq.m.:0.143			WT/ASSY IN Kgs:		
BOTTOM FLANGE					SCALE	SSE/D	
					1:10	CHD	
					ALT. a	ALTD	MATHANKUMAR.J
						DRN	B.Suresh
					INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038		
					SHEET 1 OF 1		

19-11-2013	13-08-2013	R. M.
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

REF.DRG.NO.LG10194/ITEM-3

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

AAA16970

▽ ROUGH MACHINED

① ROUGH CLEANED

▽▽ FINISH MACHINED

①b BURRS REMOVED

▽▽▽ FINE FINISH MACHINED

①s CHAMFERED

REVISIONS

ALT.

ZONE

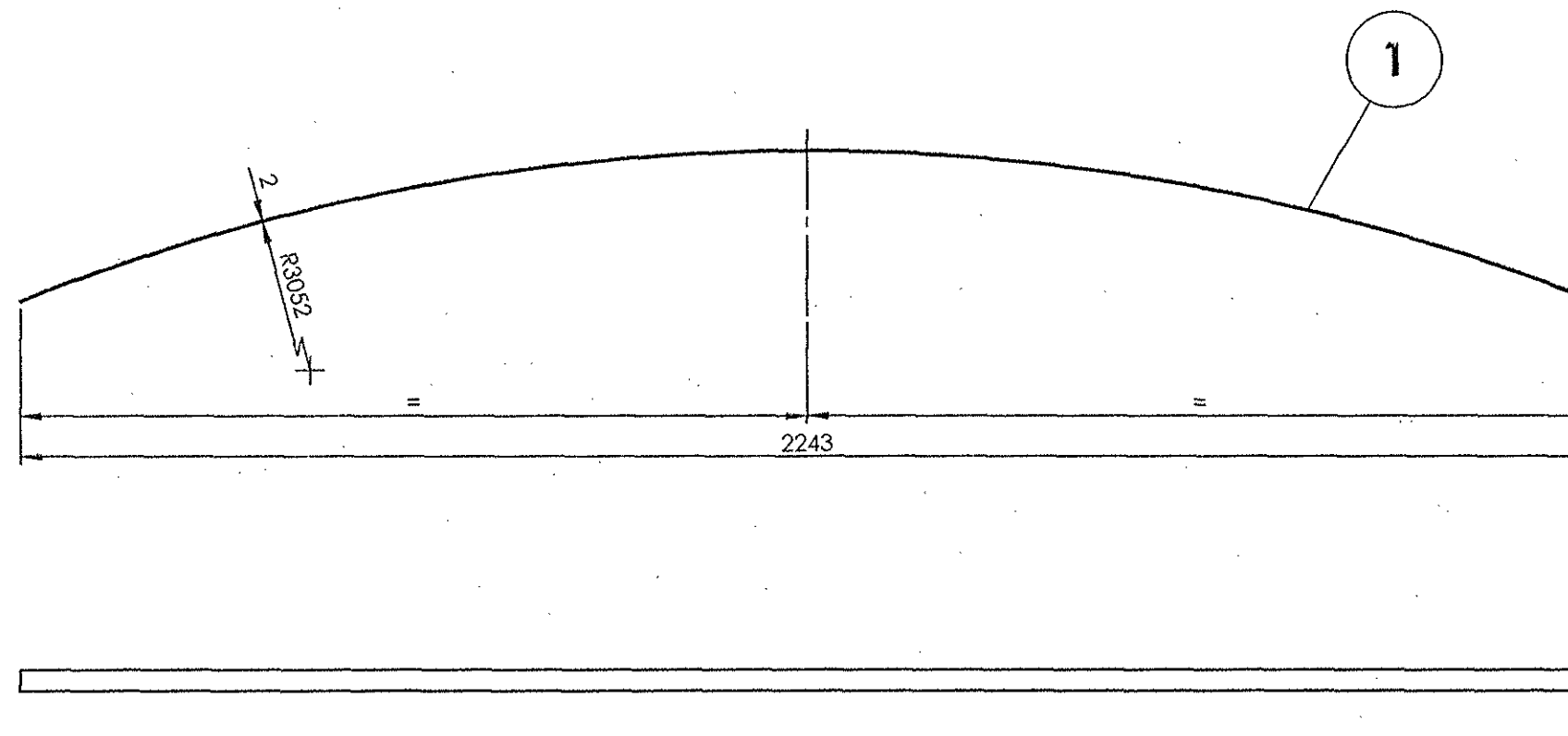
DESCRIPTION

APPROVED &
DATE

a

MATL. SPEC. ALTD.

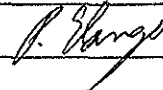
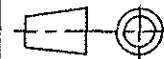
19/11



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.
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

REF.DRG.NO.LG16206/ITEM-1

19-11-2015	13-08-2013	<i>B. Suresh</i>
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

1	TOP FLANGE	2x30x2298	1		RDSO/SPEC C-K201 X2CrNi12	1.103	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6		SURFACE AREA IN Sq.m.:0.147			WT/ASSY IN Kgs:		
TOP FLANGE					SCALE	SSE/D	
					1:10	CHD	
					ALT.	ALTD	MATHANKUMAR J
					a	DRN	B.Suresh
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1			
					AAA16970		A3

AAA16971

▽ ROUGH MACHINED

(01) ROUGH CLEANED

▽▽ FINISH MACHINED

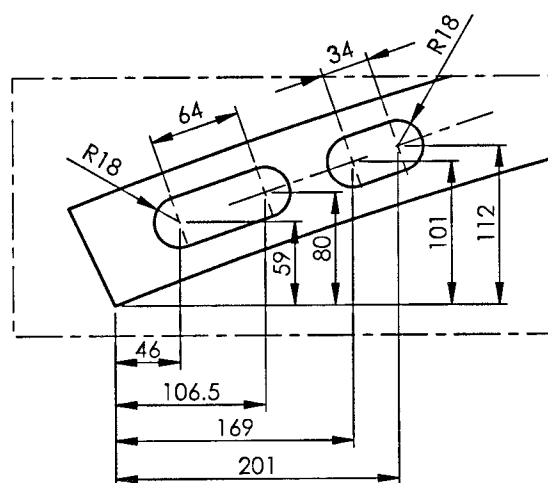
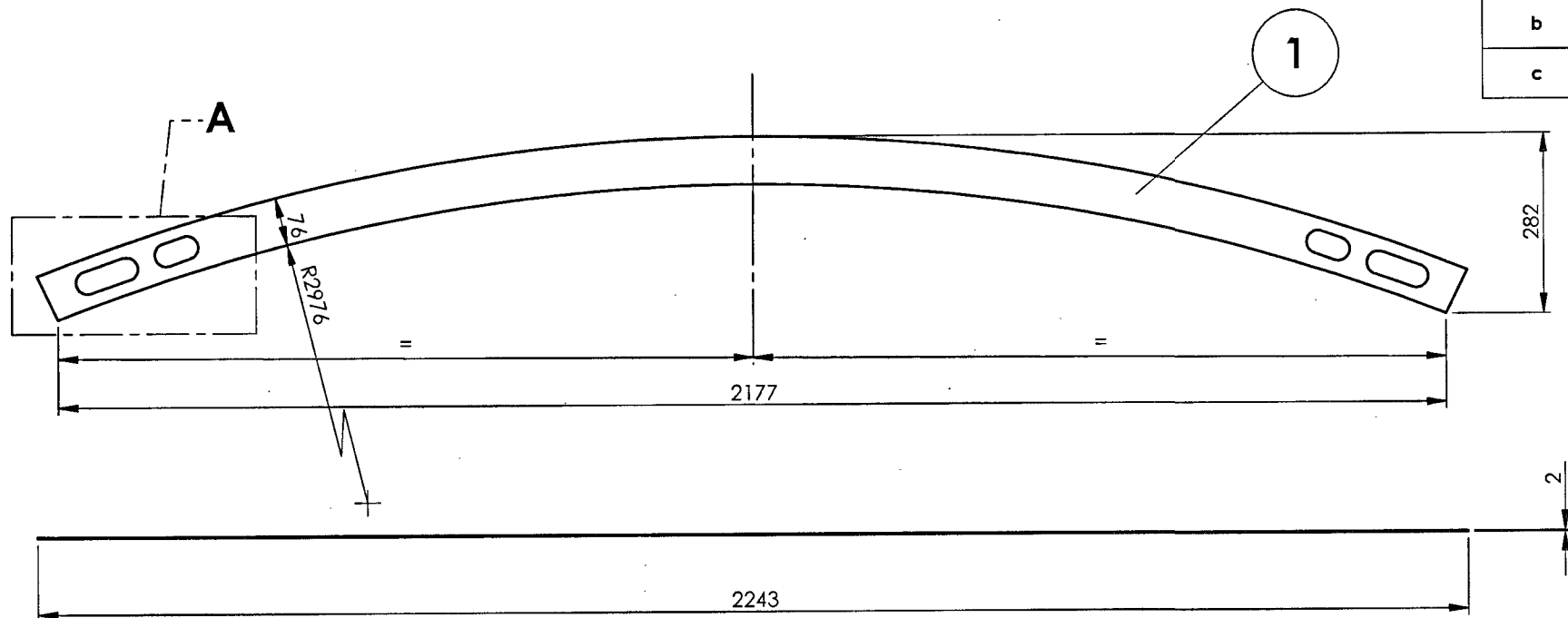
(01b) BURRS REMOVED

▽▽▽ FINE FINISH MACHINED

(18) CHAMFERED

REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATL. SPEC. ALTD.	-Sd-
b		CUTAWAY AND DETAIL VIEW-A ADDED.	-sd-
c		SIZE OF ELONGATED HOLES ALTD.	<i>[Signature]</i> 11/11/20

DETAIL A
SCALE 1 : 5

REF.DRG.NO.LG10206/ITEM-2

12-12-2020

13-082013

AME/SME

INDIAN RAILWAY STANDARDS

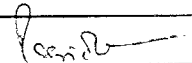
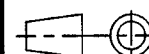
INTEGRAL COACH FACTORY, CHENNAI - 600038

SHEET
1 OF 1

AAA16971

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.
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

1	MIDDLE FLANGE	2x282x2243	1		RDSO/SPEC C- K201 X2CrNi12	2.573	
Default	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6 Roof Construction		SURFACE AREA IN Sq.m.:0.333			WT/ASSY IN Kgs:		
MIDDLE FLANGE					SCALE	SSE/D	
					1:10	CHD	
					ALT. c	ALTD	Kunti Thakur
						DRN	B.Suresh
INDIAN RAILWAY STANDARDS							
INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1	AAA16971		A3

AAA16972

▽ ROUGH MACHINED

▽▽ FINISH MACHINED

▽▽▽ FINE FINISH MACHINED

① ROUGH CLEANED

②b BURRS REMOVED

③ CHAMFERED

REVISIONS

ALT.

ZONE

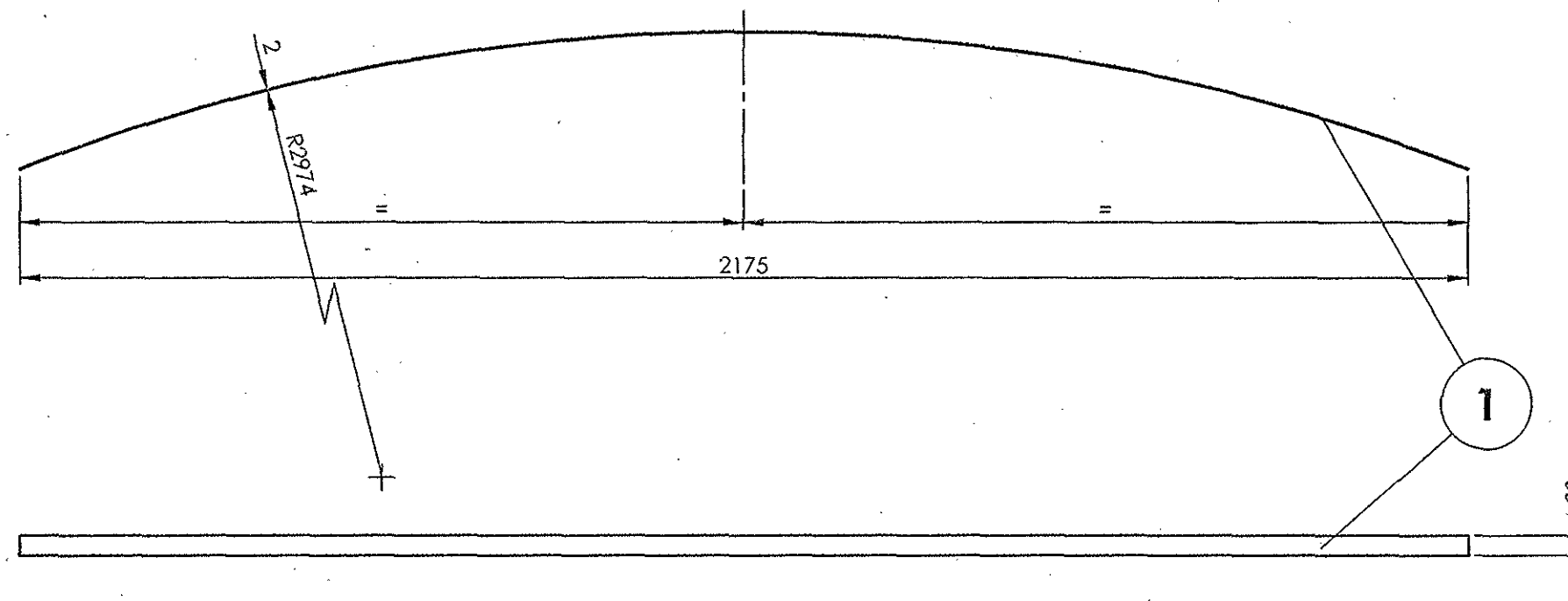
DESCRIPTION

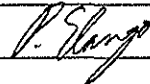
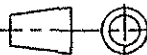
APPROVED &
DATE

a

MATL. SPEC. ALTD.

19/11/14



1	BOTTOM FLANGE	2x30x2228	1		RDSO/SPEC C- K201 X2CrNi12	1.069	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6		SURFACE AREA IN Sq.m.:0.143			WT/ASSY IN Kgs:		
BOTTOM FLANGE					SCALE	SSE/D	
					1:10	CHD	
					ALT.	ALTD	MATHANKUMAR.J
					a	DRN	B.Suresh
INDIAN RAILWAY STANDARDS							
INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1	AAA16972		A3

19-11-2015	13-08-2013	B. Suresh
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

REF.DRG.NO.LG10206/ITEM-3

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

AAA16973

▽ ROUGH MACHINED

① ROUGH CLEANED

▽▽ FINISH MACHINED

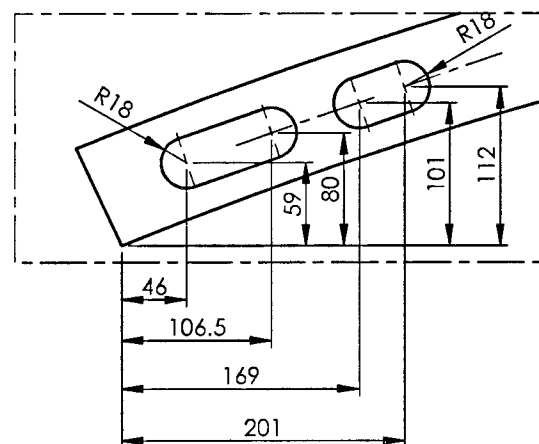
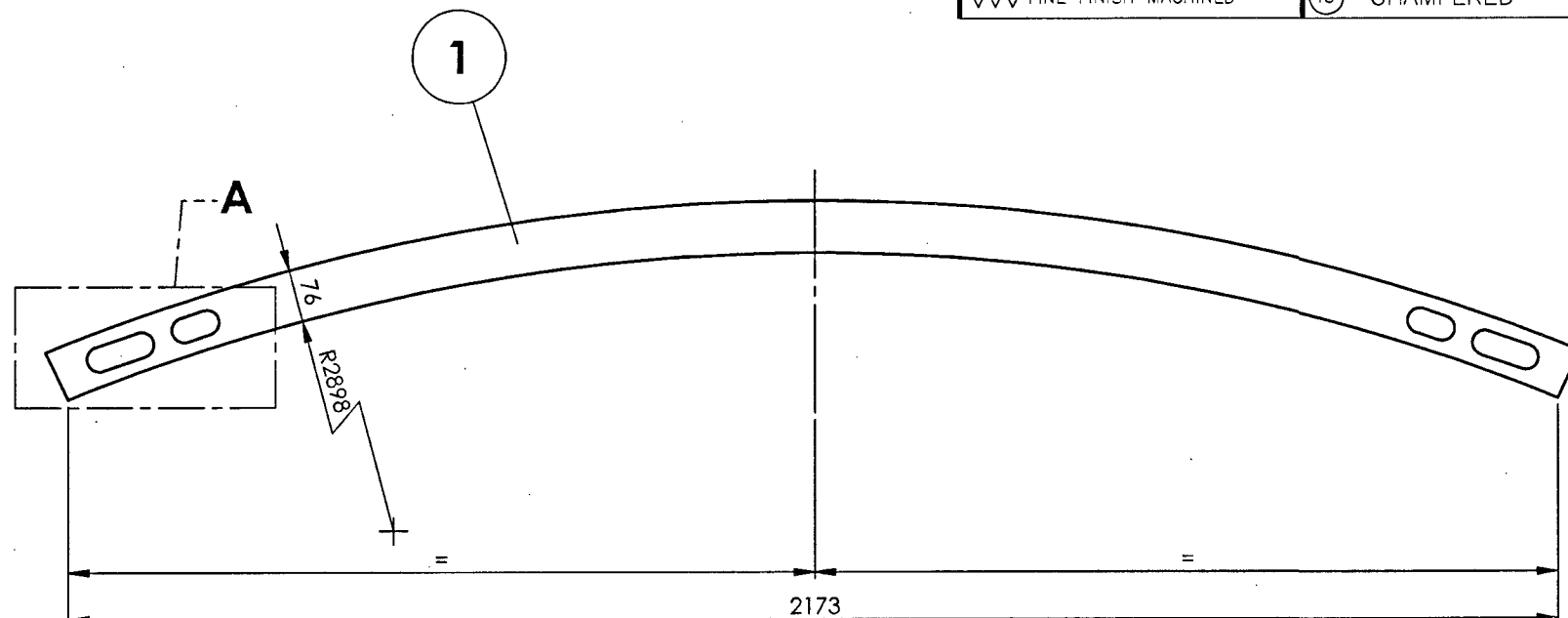
①b BURRS REMOVED

▽▽▽ FINE FINISH MACHINED

①8 CHAMFERED

REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATL. SPEC. ALTD.	-sd-
b		CUTAWAY AND DETAIL VIEW-A ADDED.	-sd-
c		SIZE OF ELONGATED HOLES ALTD.	<i>[Signature]</i>

DETAIL A
SCALE 1 : 5

REF.DRG.NO.LG10207/ITEM-2

12-12-2020

13-08-2013

AME/SME

DATE OF LATEST ALT.

DATE OF FIRST ISSUE

INDIAN RAILWAY STANDARDS

INTEGRAL COACH FACTORY, CHENNAI - 600038

SHEET
1 OF 1

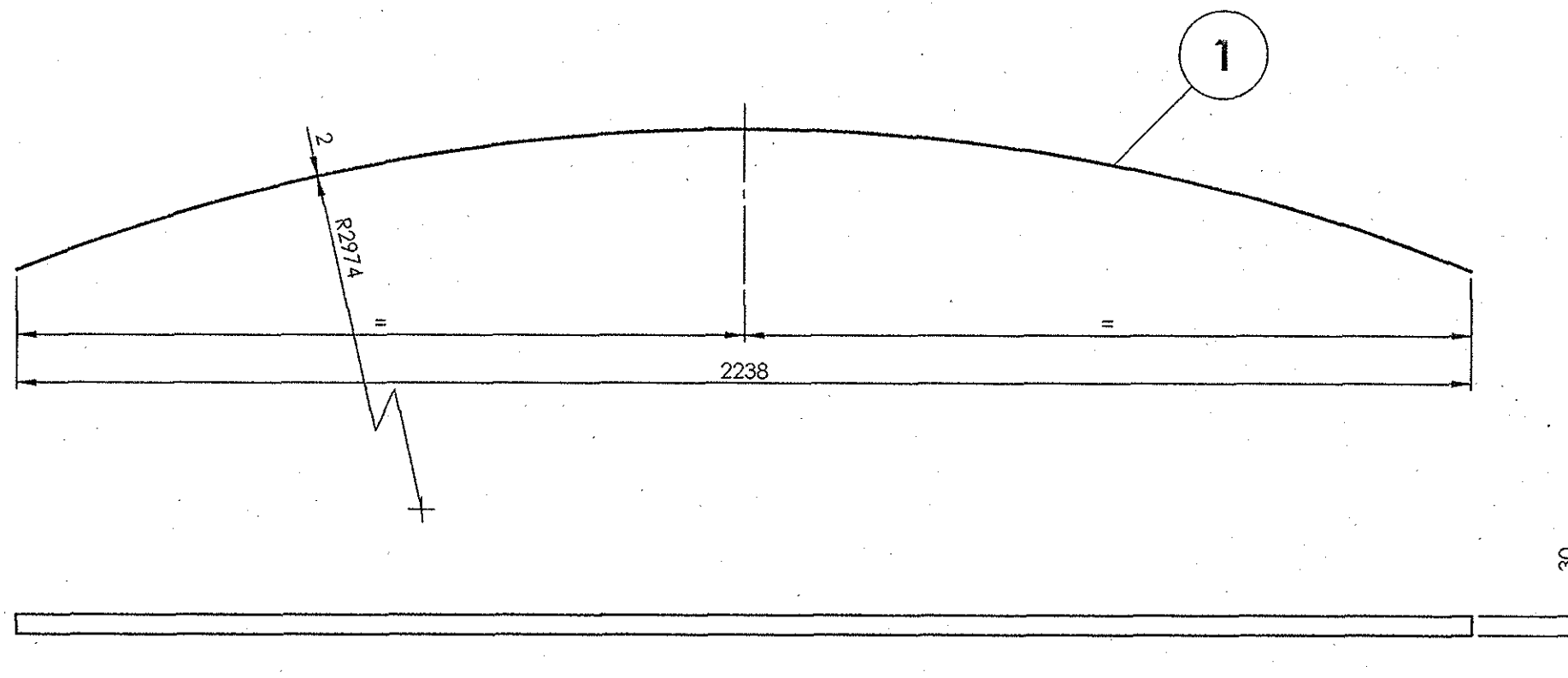
AAA16973

A3

1	MIDDLE FLANGE	2x285x2238	1		RDSO/SPEC C-K201 X2CrNi12	2.571	
Default	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6				SURFACE AREA IN Sq.m.:0.332		WT/ASSY IN Kgs:	
MIDDLE FLANGE					SCALE	SSE/D	<i>[Signature]</i>
					1:10	CHD	
					ALT. c	ALTD	Kunti Thakur
INDIAN RAILWAY STANDARDS					DRN	B.Suresh	
					LGS/EOG		
INTEGRAL COACH FACTORY, CHENNAI - 600038					AAA16973		
					A3		

AAA16974


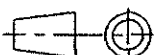
REVISIONS		ALT.	ZONE	DESCRIPTION	APPROVED & DATE
▽▽ FINISH MACHINED	01b			BURRS REMOVED	19/11
▽▽ FINE FINISH MACHINED	18			CHAMFERED	
		a		MATL. SPEC. ALTD.	



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.LG10207/ITEM-1

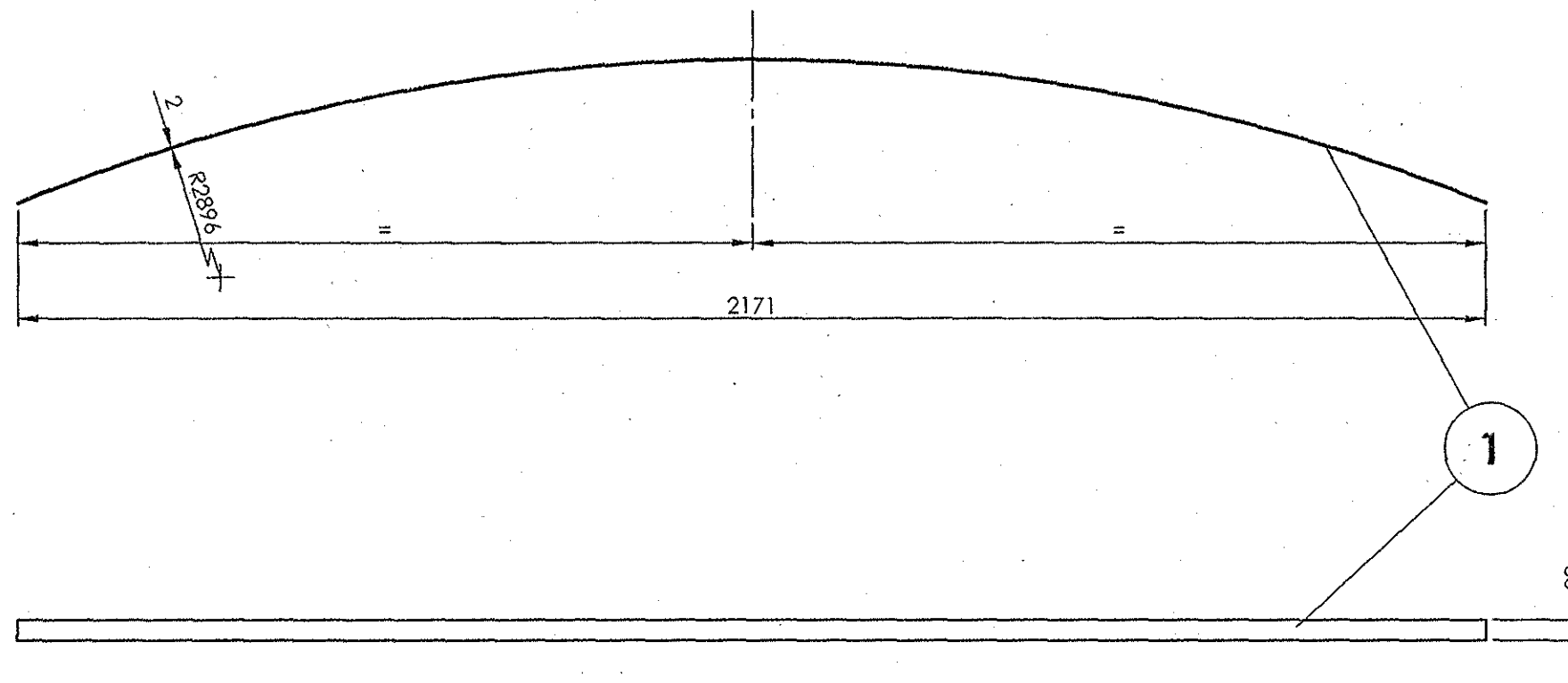
19-11-2015	13-08-2013	<i>[Signature]</i>
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

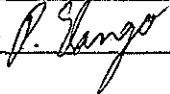

I	TOP FLANGE	2x30x2295	1		RDSO/SPEC C- K201 X2CrNi12	1.102		
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS	
GROUP: 1-6		SURFACE AREA IN Sq.m.:0.147			WT/ASSY IN Kgs:			
TOP FLANGE					SCALE	SSE/D		
					1:10	CHD		
					ALT. a	ALTD	MATHANKUMAR J	
						DRN	B.Suresh	
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038							LGS/EOG	
					SHEET 1 OF 1		AAA16974	A3

AAA16975

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
o		MATL. SPEC. ALTD.	<i>N</i> 19/9



1	MIDDLE FLANGE	2x30x2225	1		RDSO/SPEC C-K201 X2CrNi12	1.069	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6		SURFACE AREA IN Sq.m.:0.143			WT/ASSY IN Kgs:		
BOTTOM FLANGE					SCALE	SSE/D	
					1:10	CHD	
					ALT. a	ALTD	MATHANKUMAR J
						DRN	B.Suresh
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1			LGS/EOG
					AAA16975		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.
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

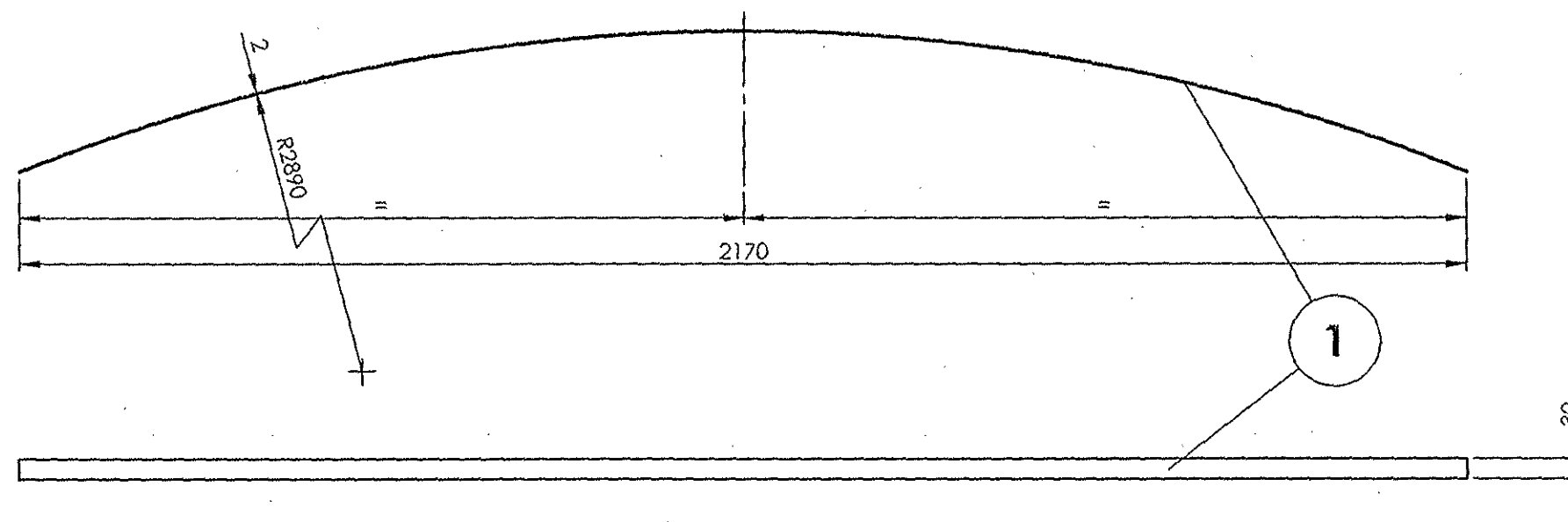
REF.DRG.NO.LG10207/ITEM-3

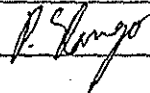

19-11-2015	13-08-2013	<i>P. Suresh</i>
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

AAA16976

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATL. SPEC. ALTD.	 1914



1	BOTTOM FLANGE	2X30X2225	1		RDSO/SPEC C- K201 X2CrNi12	1.068		
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS	
GROUP: 1-6			SURFACE AREA IN Sq.m.:0.143		WT/ASSY IN Kgs:			
BOTTOM FLANGE					SCALE	SSE/D		
					1:10	CHD		
					ALT. a	ALTD	MATHANKUMAR J	
						DRN	B.Suresh	
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1				
					AAA16976		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.
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

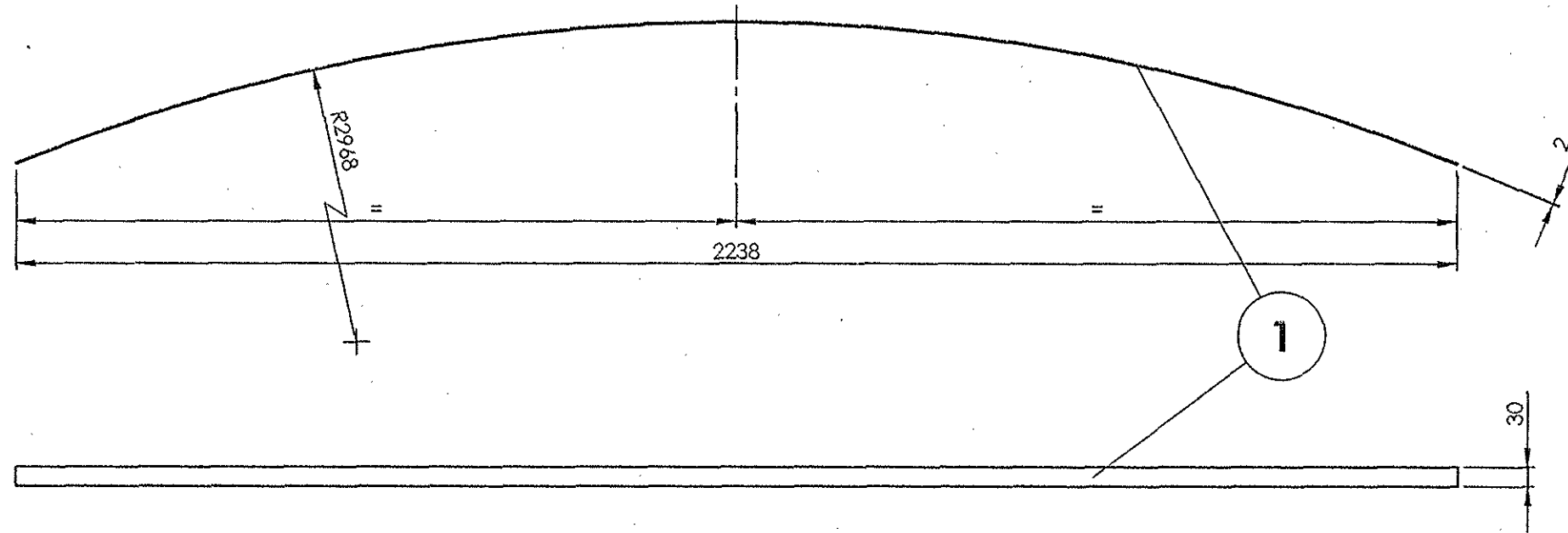
REF.DRG.NO.LG10208/ITEM-3



19-11-2015	13-08-2013	A. N.
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

AAA16977

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATL. SPEC. ALTD.	 19/12




1	TOP FLANGE	2x30x2295	1		RDSO/SPEC C-K201 X2CrNi12	1.102	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6		SURFACE AREA IN Sq.m.:0.147			WT/ASSY IN Kgs:		
TOP FLANGE					SCALE	SSE/D	
					1:10	CHD	
					ALT. a	ALTD	MATHANKUMAR J
						DRN	B.Suresh
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1			LGS/EOG
INTEGRAL COACH FACTORY, CHENNAI - 600038					AAA16977		A3

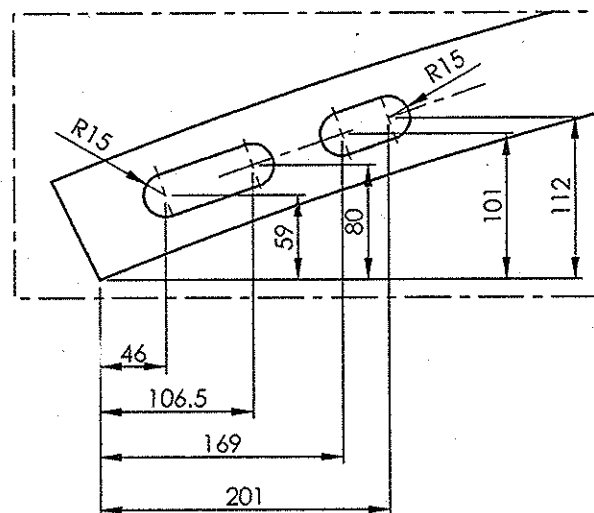
19-11-2015	13-08-2013	P. Suresh
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME


REF.DRG.NO.LG10208/ITEM-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.
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATL. SPEC. ALTD.	-Sd-
b		CUTAWAY AND DETAIL VIEW-A ADDED.	



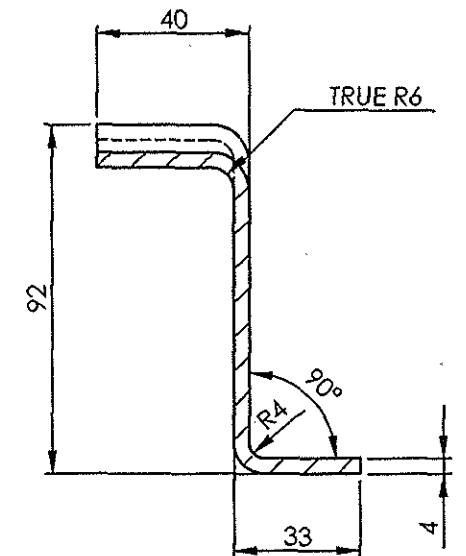
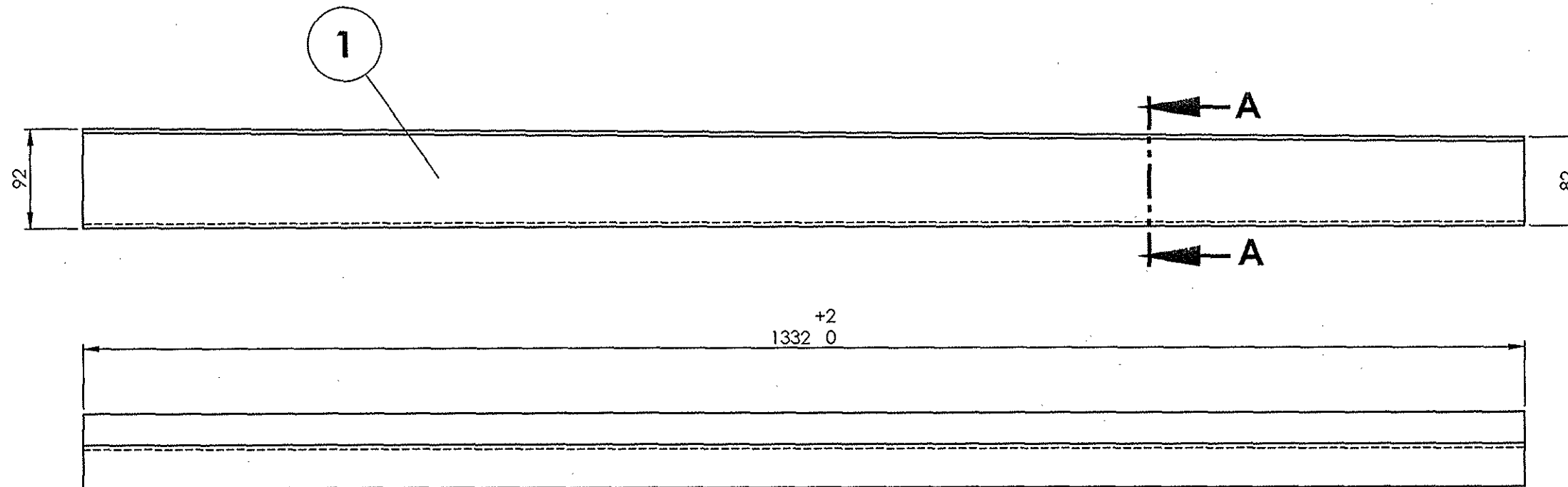
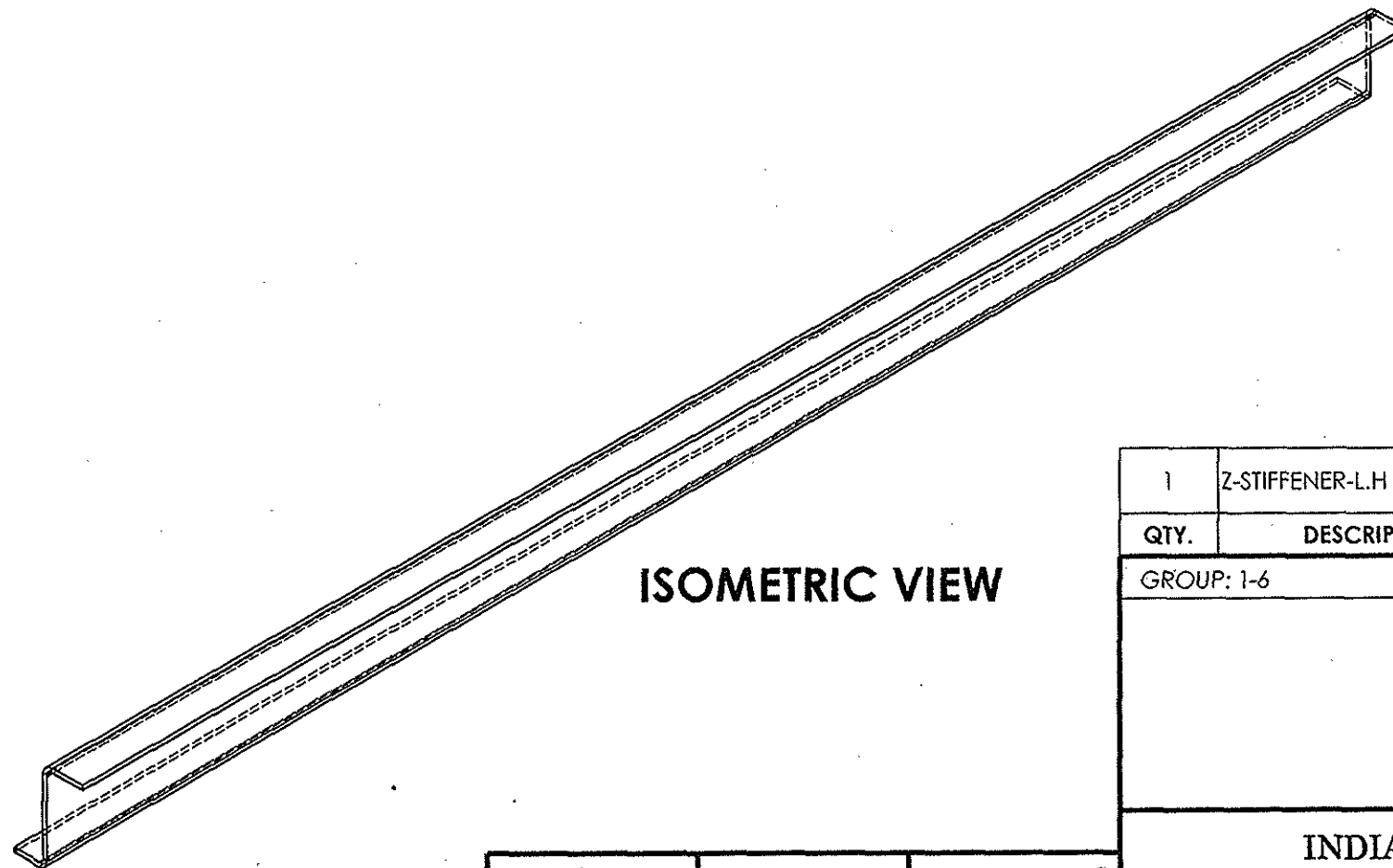
13-02-2018	13-08-2013	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SM

AAA16978 A3

AAA16979

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATL. SPEC. ALTD.	-sd-
b		CUTAWAY DELETED. LENGTH ALTD FROM 1350mm TO 1332mm.	24/5

SECTION A-A
SCALE 1 : 2

ISOMETRIC VIEW

1	Z-STIFFENER-L.H	4x149x1332	1		RDSO/SPEC C-K201 X2CrNi12	6.220	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6		SURFACE AREA IN Sq.m.:0.401			WT/ASSY IN Kgs:		
Z-STIFFENER(L.H)					SCALE	SSE/D	<i>P. Sango</i>
					1:5	CHD	
					ALT.	ALTD	T.J.Kumaravelu
					b	DRN	B.Suresh
					INDIAN RAILWAY STANDARDS		
INTEGRAL COACH FACTORY, CHENNAI - 600038					AAA16979		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.
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY