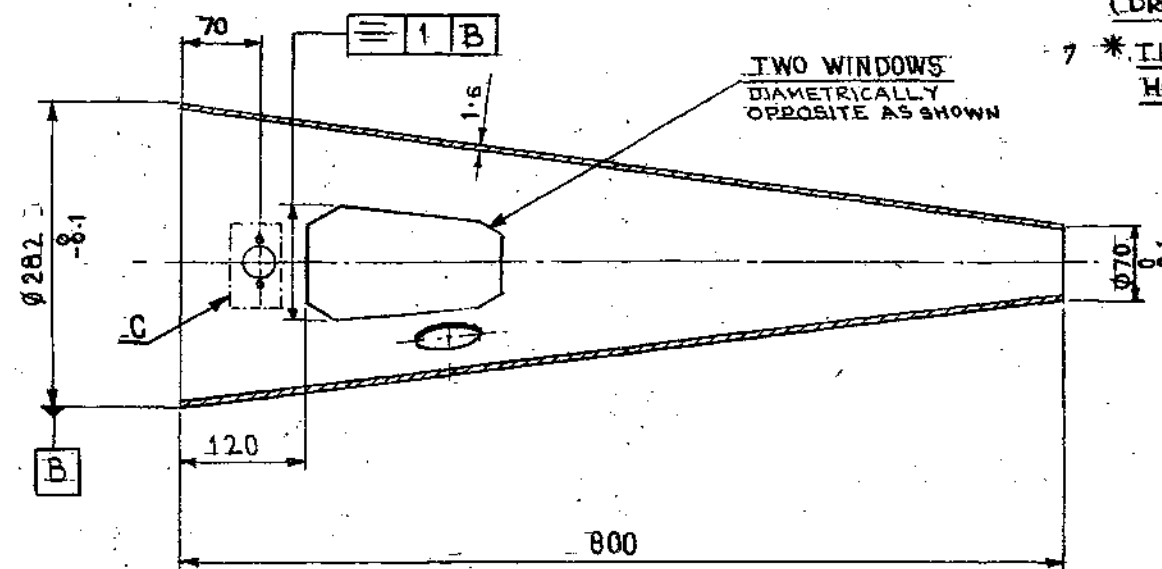
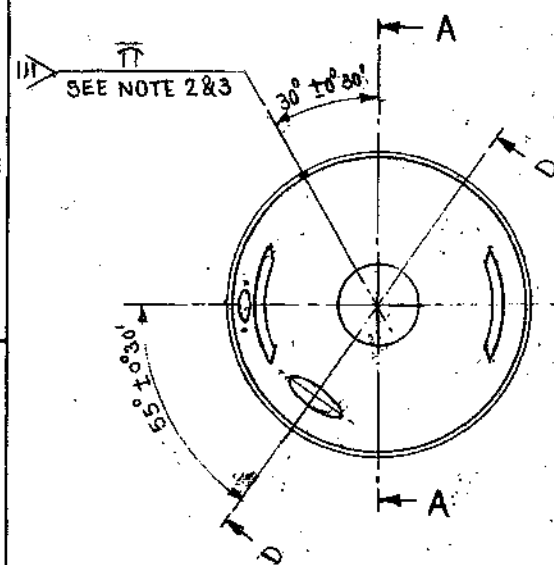


DRAWING CONVENTIONS CONFORM TO IS: 8000	
DIMNS ARE IN m.m. UNLESS OTHERWISE STATED	
GEN. TOL. MEDIUM/COURSE/FINE CLASS TO IS: 2102	
DRG. No.	DET. No. 3
ARDE 9501-03	9501-03

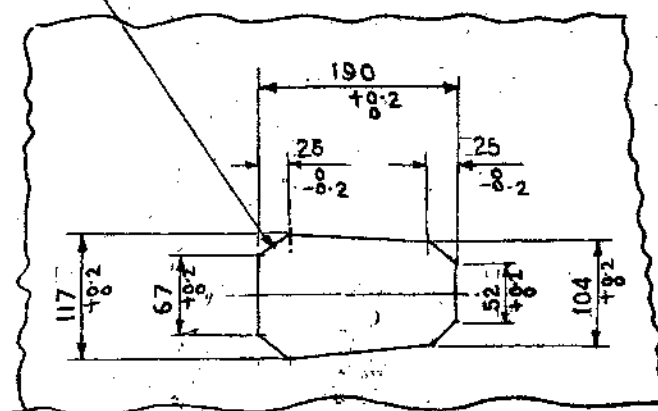
NOTES:—

- ALL SHARP EDGES AND BURRS ARE TO BE REMOVED.
- WELDING SYMBOLS ARE IN ACCORDANCE WITH IS: 813.
- STRAIGHT WELDING TO FORM CONE IS TO BE SUITABLY CHOSEN.
- PROCEDURE OF WELDING TO MEET TO IS: 813.
- SURFACE OF THE ROLLED CONE SHOULD BE UNIFORM AND SHOULD BE FREE FROM DENTS.
- ALL DIMNS. ARE TO BE CHECKED AFTER "CONE BODY WELDING ASSY" (DRG. NO ARDE 9501-03/2)
- * THESE HOLES ARE TO BE DRILLED IN CONJUNCTION WITH HOLES ON "GROMET" (DRG. NO ARDE 9501-03/14)

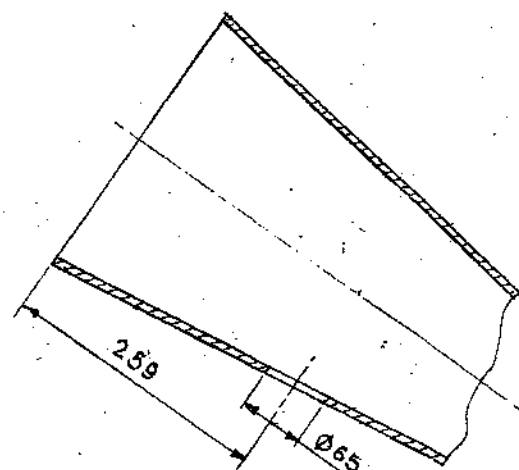


A-A

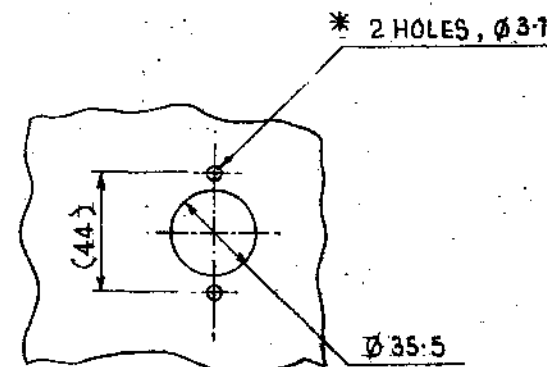
WINDOW TO BE MADE BY DIE & PUNCH ONLY.



WINDOW DETAILS
VIEW ON DEVELOPMENT



D-D
(TO INDICATE LOCATION OF HOLE)

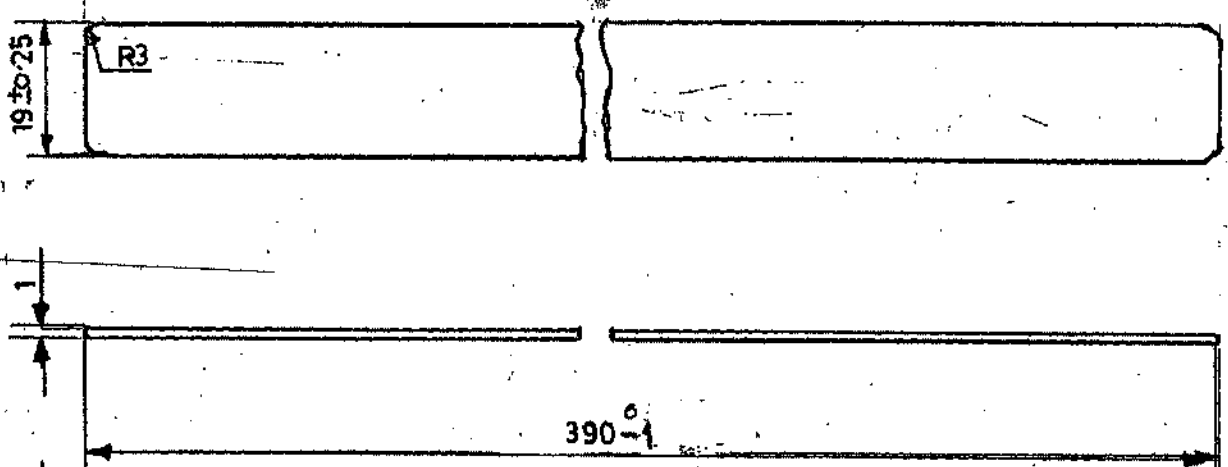
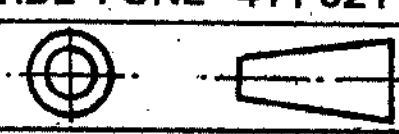


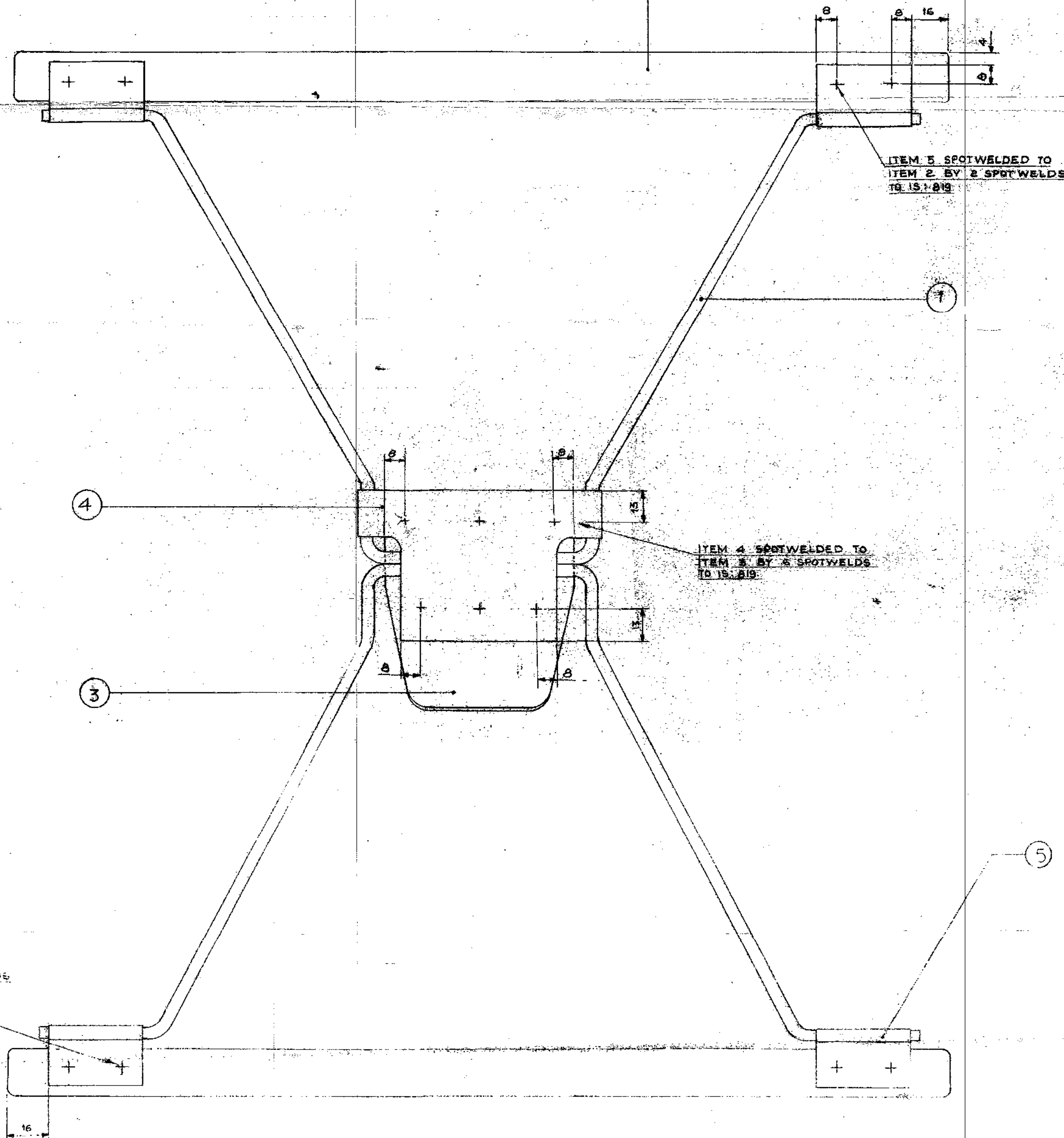
ENLARGED VIEW AT 'C'

DRN. 4.5	CHD. 4.5	TRD. 4.5	COMP. 4.5	ASSY DRG. ARDE 9501-03/2
CD	PASSED	SCALE: 1:5	EST MASS:	DESIGN AUTHORITY
APPROVED 60'E	DATE: 10-7-99	Gauge SCD:		ARDE PUNE-411021
(R. PERUMAL)				
MATL: STEEL TO IS: 1079 SL 34				
R. NO.	DATE:	AUTHORITY	BRIEF RECORD	ZONE
DRG SEALED (PROV.)				
19 APR 2000				
PROTECTIVE FINISH: PHOSPHATED TO IS: 3616 CLASS 'B'				

CONE BODY

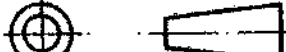
DRG. No.	DET. No. 3	SHTS.	SHT. No.
ARDE 9501-03			
PART No.			
D. S. CAT. No.			
A.H.S.P.			

1		2		3		4	
PART No.		DRAWING CONVENTIONS CONFORM TO IS : 696 DIMNS ARE IN m.m. UNLESS OTHERWISE STATED					
DET No. 10		SHTS.		GEN. TOL. MEDIUM CLASS TO IS : 2102			
DRG. No.		ARDE 2283					
							
<u>PROTECTIVE FINISH:—</u> <u>PHOSPHATING TO IS 3618 CLASS 'B' OILED & STOVED</u>							
R. NO.	DATE:	AUTHORITY	BRIEF RECORD			ZONE	CD GO SIGN
DRG SEALED (PROV) <i>Sen. in Sam</i> 01 Nov 96 CRE (AA)							
DRN. SMP	CHD.	TRD.	COMP.	ASSY DRG. ARDE 2283/5			
CD	PASSED <i>Parad</i>	SCALE: 1:1	DESIGN AUTHORITY				
APPROVED	<i>W. Sam</i> FOR DIRECTOR	EST MASS:	ARDE PUNE - 411 021				
MATERIAL: STEEL TO SPEC IS : 513 Gd. 'O'							
ANNEALED CONDITION				DRG. No.			
PROTECTIVE FINISH: AS ABOVE				ARDE 2283			
TITLE:				DET. No. 10 SHTS. SHT. No.			
<u>HINGE PLATE</u>				PART No.			
				D. S. CAT. No.			
				A.H.S.P.			

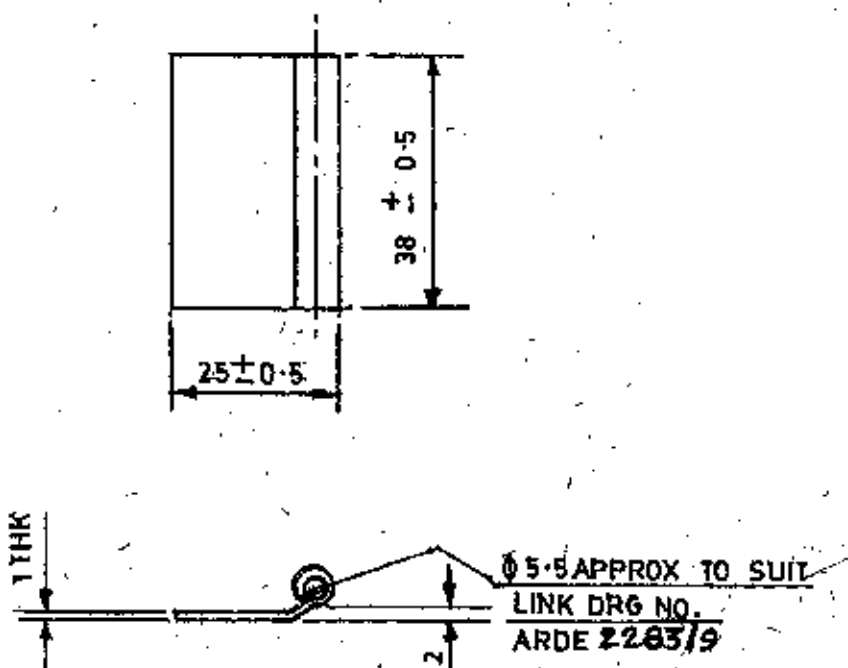
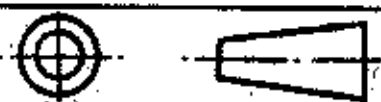


LIST OF COMPONENTS					
ITEM No.	DESCRIPTION	DRG No.	DET No.	PART No.	No. OF
1	LINK	ARDE 2283	9		2
2	HINGE PLATE	ARDE 2285	10		2
3	HANDLE	ARDE 2283	11		1
4	HANDLE PLATE	ARDE 2283	12		1
5	HINGE	ARDE 2283	13		2

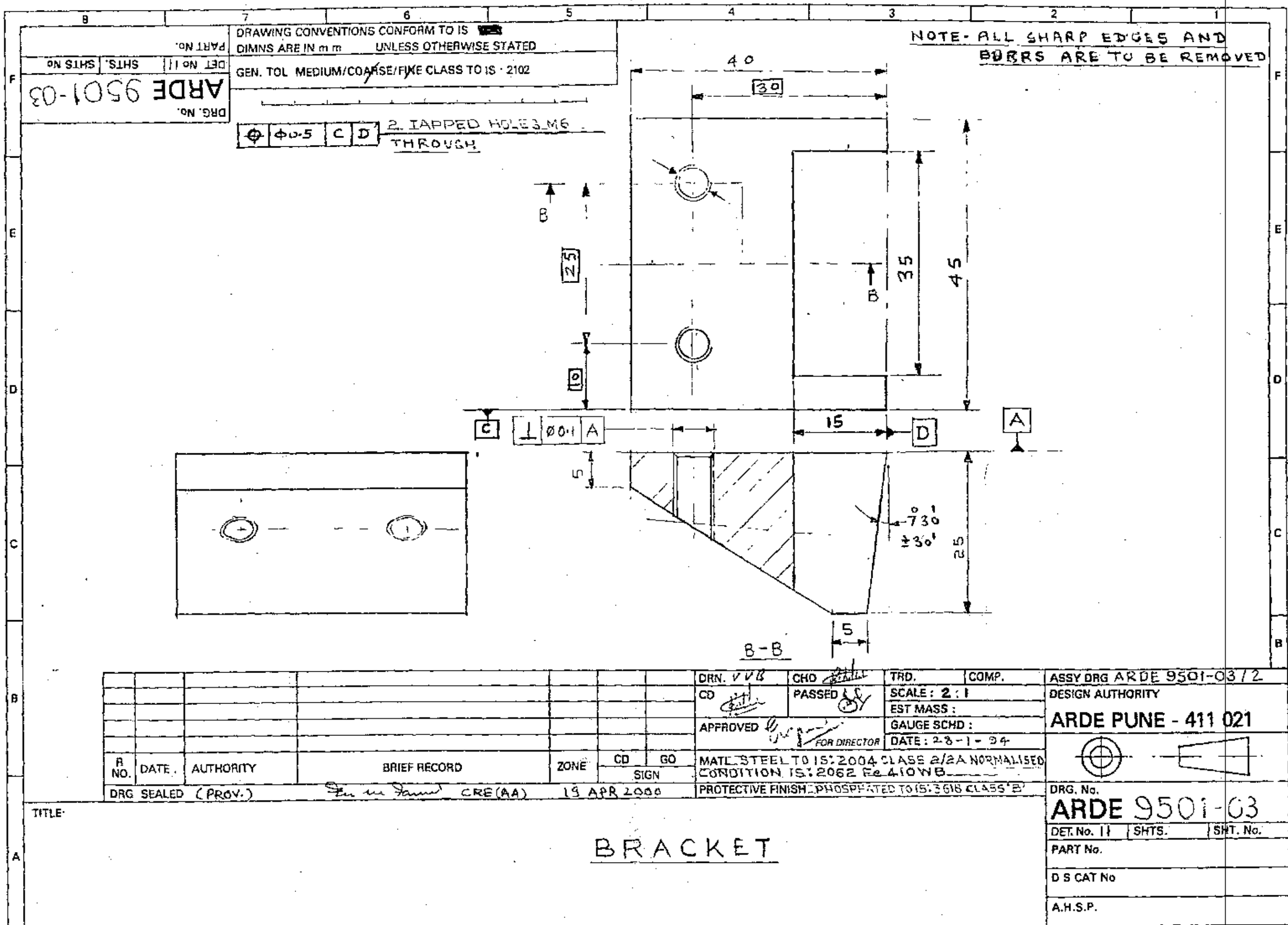
[illegible]

IN. <i>Supply</i>	CHD	RI	COMP	ASSY DRG. NO. <i>2283</i> SHT.4
ISSUE		C		DESIGN AUTHORITY
APPROVED	<i>W. S. D. S.</i> WORKS DIRECTOR	DATE: <i>28-6-96</i>	ARDE PUNE - 411021	
MATL:				
PROTECTIVE FINISH:				DRG. No. ARDE 2283 DET. No. <i>5</i> SHTS. SHT.No. _____ PART No. _____ D. S. CAT. No. _____ A.H.S.P. _____

LINK ASSY

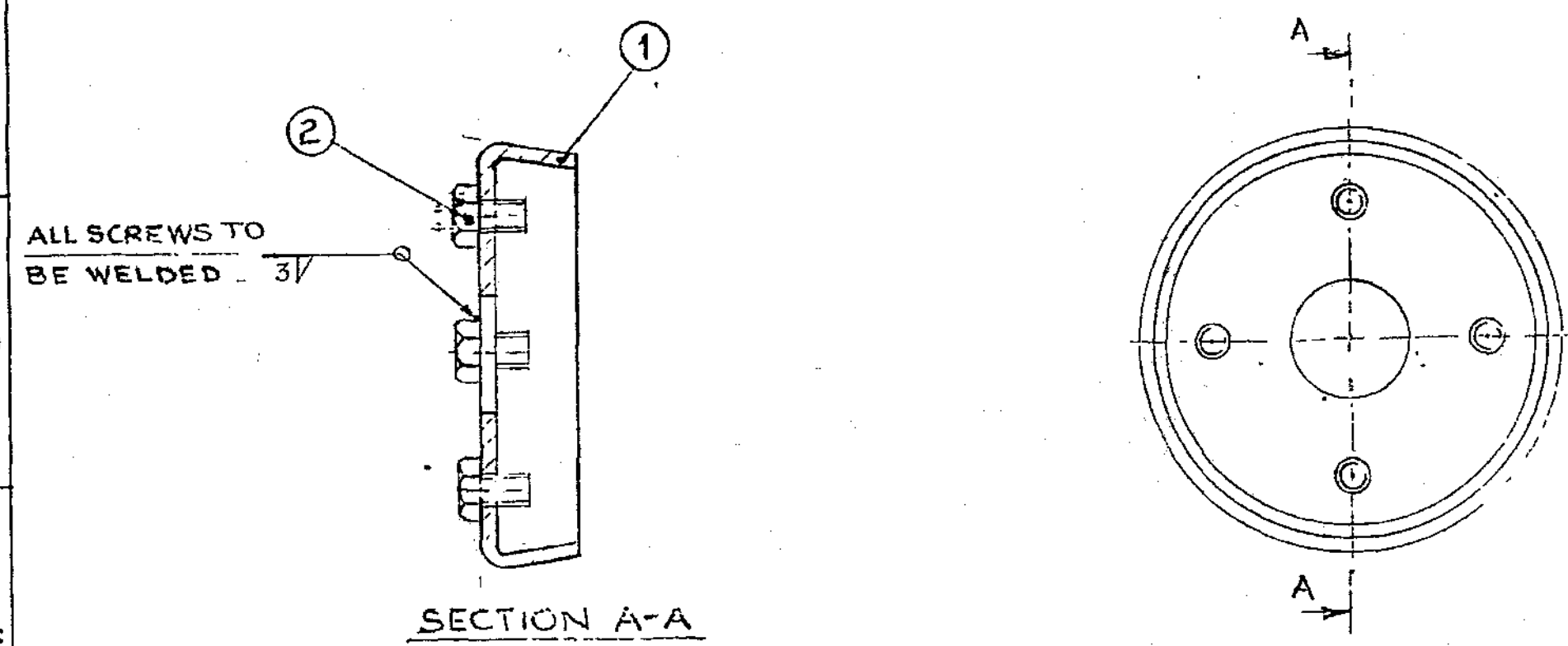
1		2		3		4	
PART No.		DRAWING CONVENTIONS CONFORM TO IS: 696 DIMNS ARE IN m.m. UNLESS OTHERWISE STATED					
DET No. 13 SHTS.		GEN. TOL. MEDIUM CLASS TO IS: 2102					
DRG. No.		ARDE 2283					
							
PROTECTIVE FINISH:— PHOSPHATING TO SPEC IS: 3618 CLASS 'B' OILED & STOVED. NOTE:— DRG BASED ON ARM 1253 A32.							
R. NO.	DATE:	AUTHORITY	BRIEF RECORD			ZONE	CD GO SIGN
DRG. SEALED (PROV) <i>For in 96</i> 01 NOV 96 CRE (AA)							
DRN. SMP	CHD.	TRD.	COMP.	ASSY DRG. ARDE 2283/5			
CD	PASSED <i>Prasad</i>	SCALE: 1:1		DESIGN AUTHORITY			
APPROVED	<i>VM 28/11/96</i> FOR DIRECTOR	EST MASS.		ARDE PUNE - 411 021			
Gauge Schd:				DATE: 28-6-96			
MATL: STEEL TO SPEC. IS: 513 Gd. 'O'							
ANNEALED CONDITION							
PROTECTIVE FINISH: AS ABOVE				DRG. No.			
TITLE:				ARDE 2283			
				DET. No. 13 SHTS.			
				PART No.			
				D. S. CAT. No.			
				A.H.S.P.			

HINGE



8		7		6		5		4		3		2		1	
ON LHS		ON LHS		ON LHS		ON LHS		ON LHS		ON LHS		ON LHS		ON LHS	
DET. No. 7		DET. No. 7		DET. No. 7		DET. No. 7		DET. No. 7		DET. No. 7		DET. No. 7		DET. No. 7	
ARDE 9501-03		ARDE 9501-03		ARDE 9501-03		ARDE 9501-03		ARDE 9501-03		ARDE 9501-03		ARDE 9501-03		ARDE 9501-03	
DRG. No.		DRG. No.		DRG. No.		DRG. No.		DRG. No.		DRG. No.		DRG. No.		DRG. No.	
PART No.		PART No.		PART No.		PART No.		PART No.		PART No.		PART No.		PART No.	
DRAWING CONVENTIONS CONFORM TO IS : 550		DRAWING CONVENTIONS CONFORM TO IS : 550		DRAWING CONVENTIONS CONFORM TO IS : 550		DRAWING CONVENTIONS CONFORM TO IS : 550		DRAWING CONVENTIONS CONFORM TO IS : 550		DRAWING CONVENTIONS CONFORM TO IS : 550		DRAWING CONVENTIONS CONFORM TO IS : 550		DRAWING CONVENTIONS CONFORM TO IS : 550	
DIMNS ARE IN m.m. UNLESS OTHERWISE STATED		DIMNS ARE IN m.m. UNLESS OTHERWISE STATED		DIMNS ARE IN m.m. UNLESS OTHERWISE STATED		DIMNS ARE IN m.m. UNLESS OTHERWISE STATED		DIMNS ARE IN m.m. UNLESS OTHERWISE STATED		DIMNS ARE IN m.m. UNLESS OTHERWISE STATED		DIMNS ARE IN m.m. UNLESS OTHERWISE STATED		DIMNS ARE IN m.m. UNLESS OTHERWISE STATED	
GEN. TOL. MEDIUM/COARSE/FINE CLASS TO IS : 2102		GEN. TOL. MEDIUM/COARSE/FINE CLASS TO IS : 2102		GEN. TOL. MEDIUM/COARSE/FINE CLASS TO IS : 2102		GEN. TOL. MEDIUM/COARSE/FINE CLASS TO IS : 2102		GEN. TOL. MEDIUM/COARSE/FINE CLASS TO IS : 2102		GEN. TOL. MEDIUM/COARSE/FINE CLASS TO IS : 2102		GEN. TOL. MEDIUM/COARSE/FINE CLASS TO IS : 2102		GEN. TOL. MEDIUM/COARSE/FINE CLASS TO IS : 2102	

LIST OF COMPONENTS					
ITEM No.	NOMENCLATURE	No. OF	MATL	DRG. No.	DET. No.
1	END COVER	1		ARDE 9501-03	8
2	HEX. HD SCREW M6X1-12 LONG IS: 1363 (PART 2)	4	STEEL	ND	-



R NO.		DATE :		AUTHORITY		BRIEF RECORD		ZONE		CD		GO		SIGN		MATERIAL		PROTECTIVE FINISH :		DRG. No.		ASSY DRG. ARDE 9501-03 / 2	
DRG SEALED (PROV.)		19 APR. 2000		CRE(AA)		19 APR. 2000		19 APR. 2000		19 APR. 2000		19 APR. 2000		19 APR. 2000		19 APR. 2000		19 APR. 2000		19 APR. 2000		19 APR. 2000	

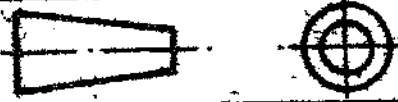
TITLE.		END COVER ASSY		SCALE : 1:1		EST MASS :		GAUGE SCHD :		DATE : 10-7-1995		DESIGN AUTHORITY		ARDE PUNE - 411 021		DRG. No.		ARDE 9501-03		DET. No. 7		SHTS		SHT. No.		PART No.		D.S.CAT.No.		A.H.S.P.	
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HANDEL PLATE

DET. No. 12 SHTS. SHT. No.

ARDE 2283

DRG. No.



ARDE PUNE - 411021

DESIGN AUTHORITY

ASSY DRG. ARDE 2283/5

THD. S.M.P. COMP.

DRN. S.M.P. CHD.

SCALE: 1:1

EST. MASS:

GAUGE SCHD:

DATE: 28-6-96

MATL: STEEL TO SPEC. IS: 513 GD. O.

ANNEALED CONDITION

PROTECTIVE FINISH: AS ABOVE

DRG. SEAL (PROV)

01 NOV 96

CRE (AA)

R. NO.

DATE:

AUTHORITY

BRIEF RECORD

ZONE

SIGN

GO

CD

APPROVED

FOR DIRECTOR

SC. 1

PASSED

CD

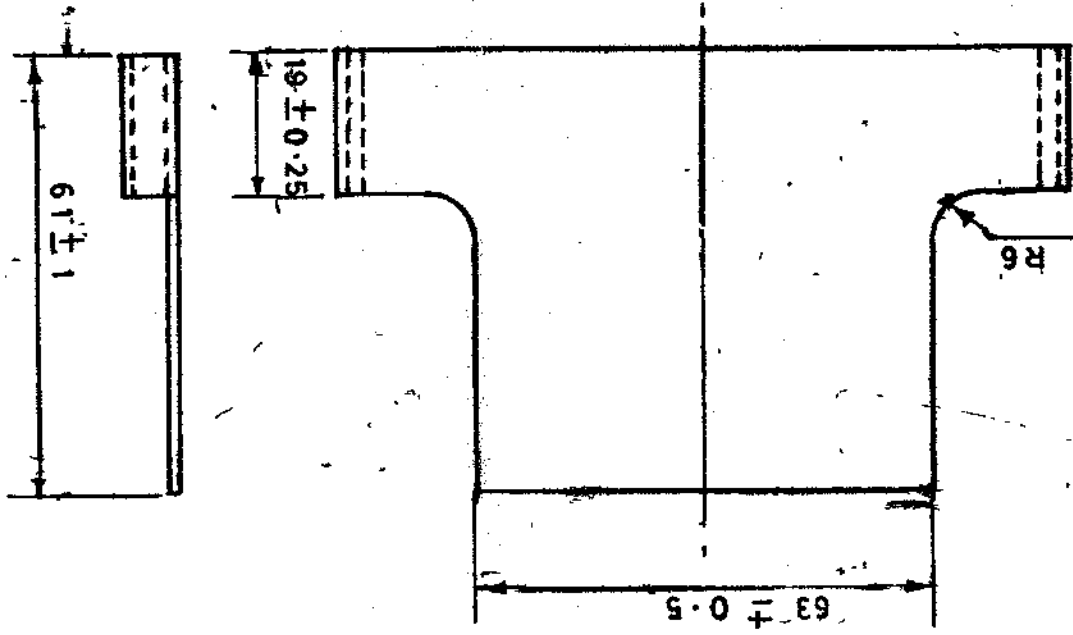
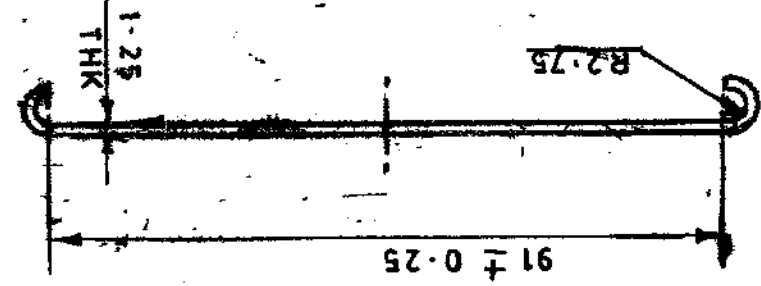
TITLE:

DRG. BASED ON DRG. NO. AR.M. 1253 A 31.

NOTES:-

PHOSPHATING TO IS: 3618 CLASS B OILED & STOVED.

PROTECTIVE FINISH:-



DRG. No.

ARDE 2283

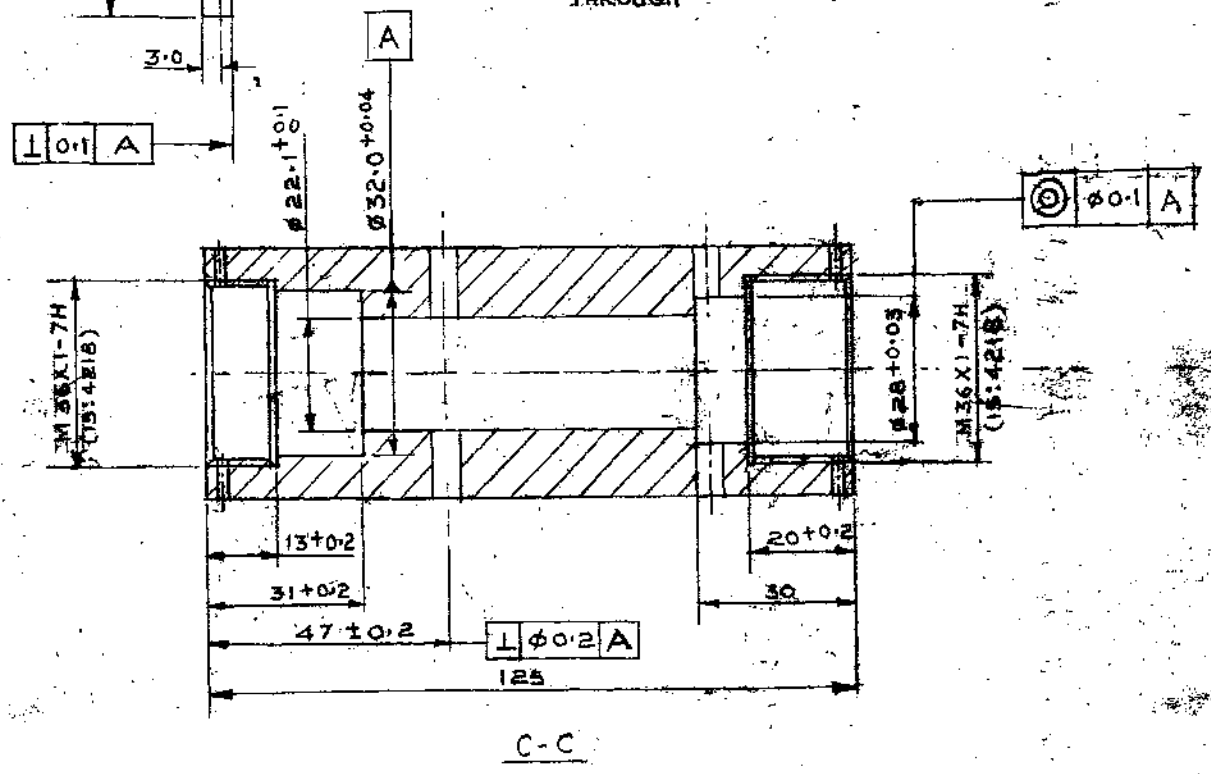
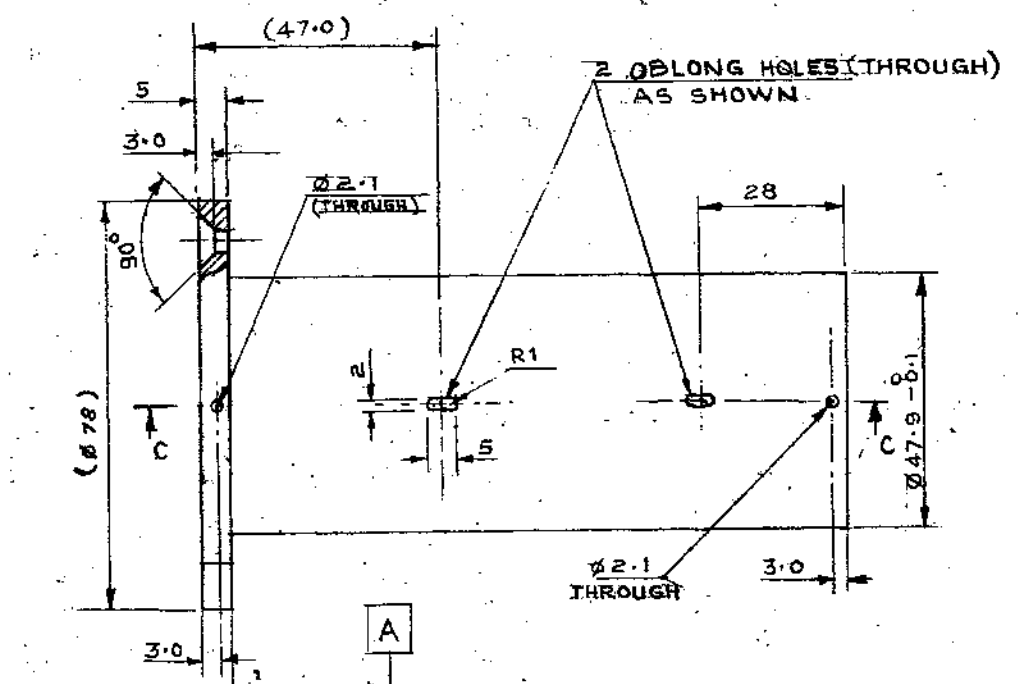
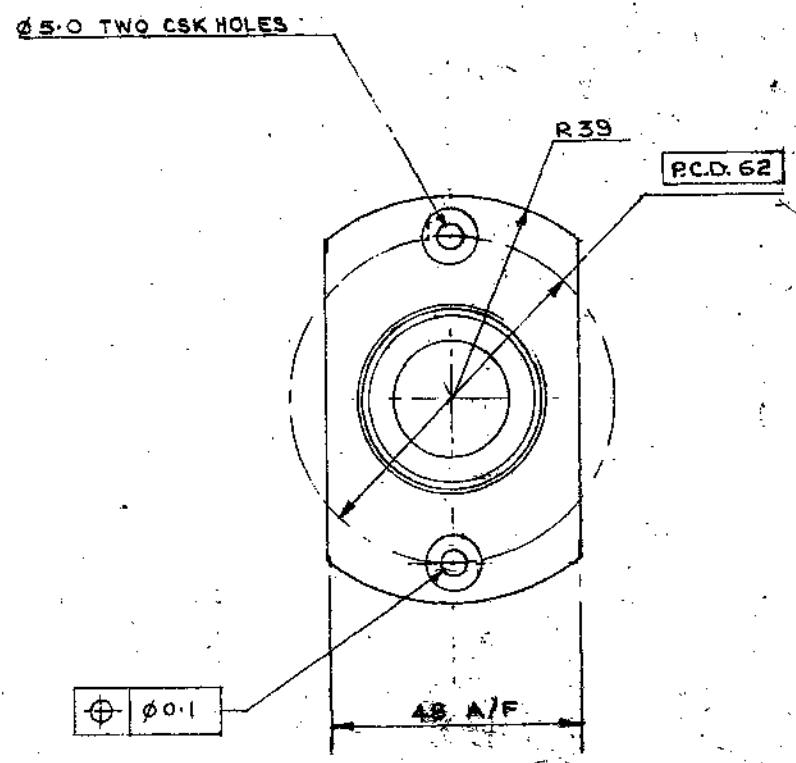
DET. No. 12 SHTS. SHT. No.

PART No.

DRAWING CONVENTIONS CONFORM TO IS: 696
DIMNS ARE IN M.M. UNLESS OTHERWISE STATED
GEN. TOL. MEDIUM/CLASS TO IS: 2102

DRAWING CONVENTIONS CONFORM TO IS: 1000	
DIMENSIONS ARE IN m.m. UNLESS OTHERWISE STATED	
GEN. TOL. MEDIUM/COARSE/FINE CLASS TO IS: 2102	
DRG. No.	DET. No. 16
ARDE 9501-03	9501-03

NOTES: ALL SHARP EDGES & SURF. ARE TO BE REMOVED



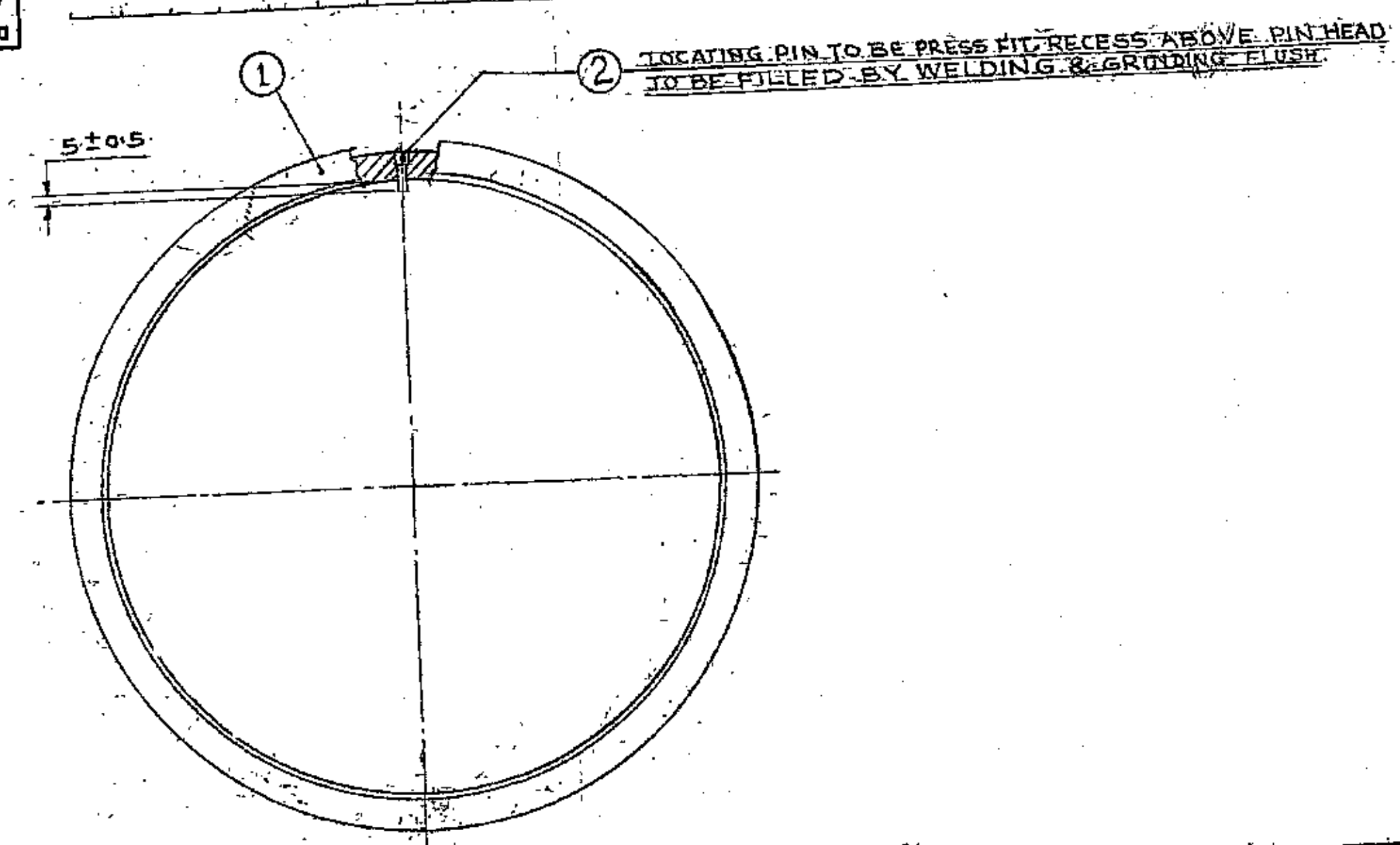
DRG. No. 9501-03		COMP. No. 9501-03	
CD	PASS	SCALE: 1:1	DESIGN AUTHORITY
DATE: 31-10-1988		DATE: 31-10-1988	ARDE PUNE-411 021
BRIEF RECORD		DRG. No. 9501-03	
DRG. SEALED (PROV)		DET. No. 16	
RD, RCMA (4A)		PART No.	
35 SEP 2001		D. S. CAT. No.	
		A.H.S.P.	

TITLE:

HOUSING

DRAWING CONVENTIONS CONFORM TO IS: UNLESS OTHERWISE STATED		DIMNS ARE IN m.m.		GEN. TOL. MEDIUM/ COARSE/ FINE CLASS TO IS: 2102	
ON LHD		ON RHD		ON LHD	
DET. No. 1		DET. No. 2		DET. No. 3	
ARDE 9501-03		ARDE 9501-03		ARDE 9501-03	

LIST OF COMPONENTS					
ITEM NO.	NOMENCLATURE	QTY	MATL	DRG. No.	PART. No.
1	CONE RING	1		ARDE 9501-03	5
2	LOCATING PIN	1		ARDE 9501-03	6



<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>R. NO.</th> <th>DATE</th> <th>AUTHORITY</th> <th>BRIEF RECORD</th> <th>ZONE</th> <th>CD</th> <th>GO</th> <th>SIGN</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>				R. NO.	DATE	AUTHORITY	BRIEF RECORD	ZONE	CD	GO	SIGN									DRN. <i>[Signature]</i> CD <i>[Signature]</i> APPROVED <i>[Signature]</i> MATL: <i>[Blank]</i> PROTECTIVE FINISH: <i>[Blank]</i>	CHD. <i>[Signature]</i> PASSED <i>[Signature]</i> FOR DIRECTOR <i>[Signature]</i>	TRD. <i>[Blank]</i> SCALE: 1:2 EST. MASS: GAUGE SCHD: DATE: 7-1-94	ASSY/DRG. ARDE 9501-03 / 2 DESIGN AUTHORITY: ARDE PUNE - 411021
				R. NO.	DATE	AUTHORITY	BRIEF RECORD	ZONE	CD	GO	SIGN												
DRG. No. ARDE 9501-03 DET. No. 4. SHTS. SHT. No. <i>[Blank]</i> PART No. <i>[Blank]</i> D. S. CAT. No. <i>[Blank]</i> A.H.S.P. <i>[Blank]</i>																							

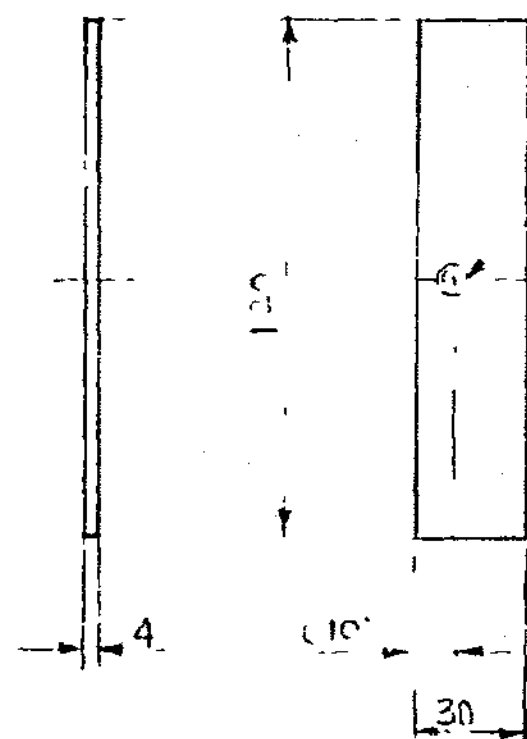
TITLE:

CONE RING ASSY.

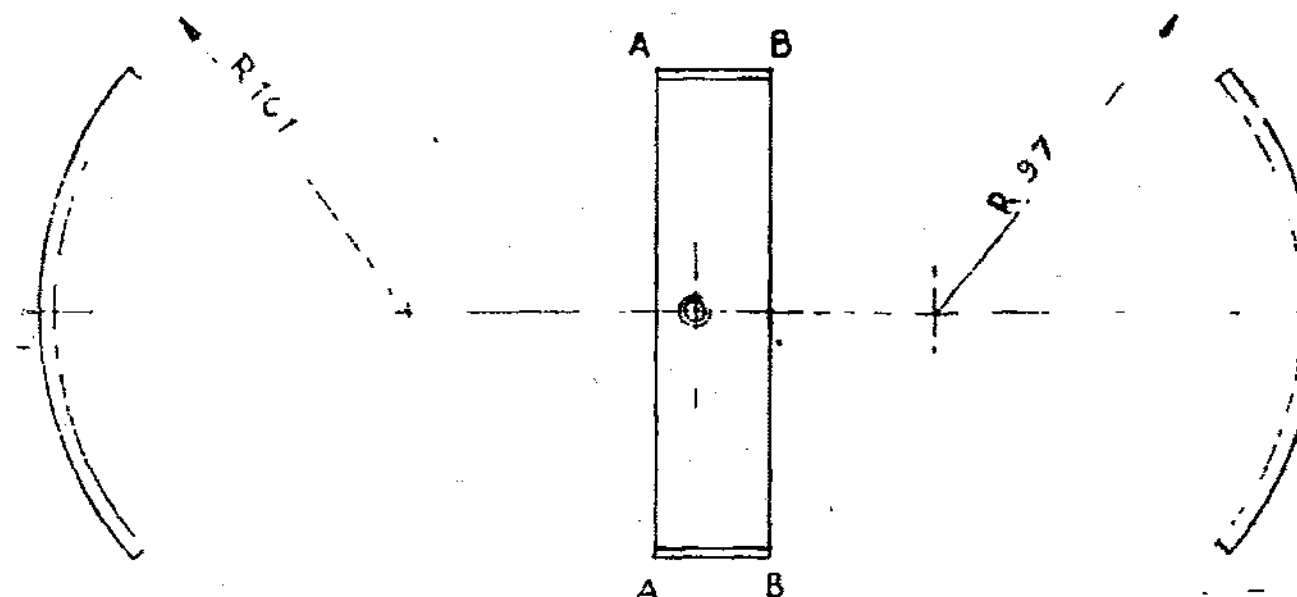
NOTE :- ALL SHARP EDGES & BURRS ARE TO BE REMOVED.

ARDE 9501-03

M6 XI, TO BE DRILLED &
TAPPED IN CONJUNCTION WITH
PANEL (DRG NO AFDE 3501-03/34/36
ON CONE BODY ASS. (DRG NO
ARDE 3501-03/2)



VIEW ON DEVELOPMENT



FACE A A

FACE B B

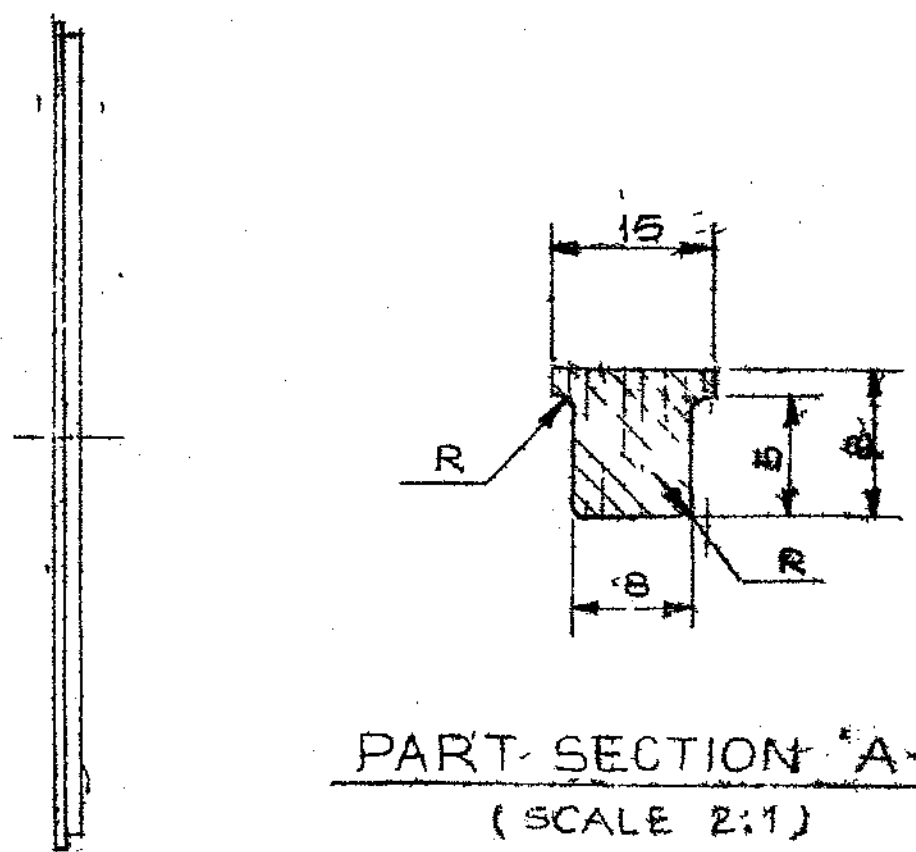
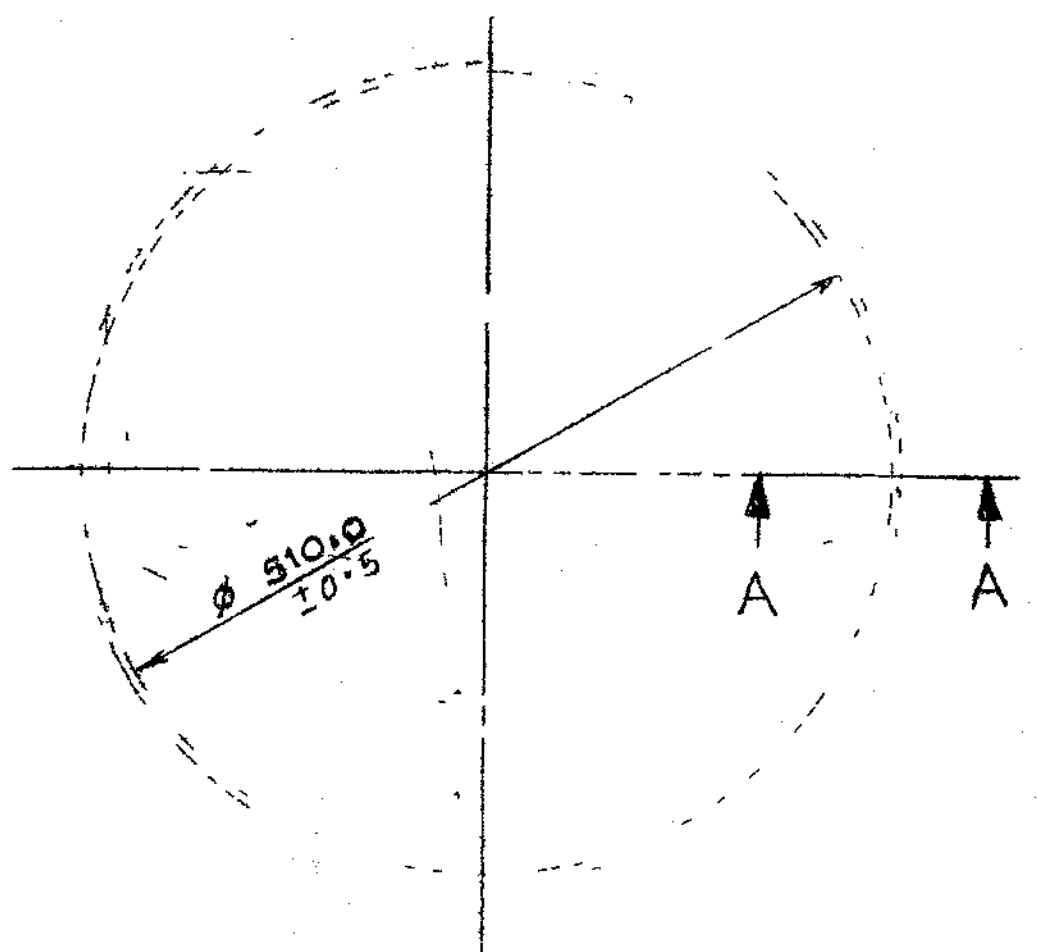
VIEW AFTER FORMING

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ON INV	GRG CONVENTIONS CONFORM TO IS 696
DET No 11	DIM. ARE IN MM
ARDE 2039	GEN. TOL MEDIUM CLASS TO IS 2102
DRG No	

NOTE

RING TO BE FREE FROM FLASH.
 PRESERVED IN TALC DUST, TO BE COATED
 WITH SILICON GREASE BEFORE ASSY

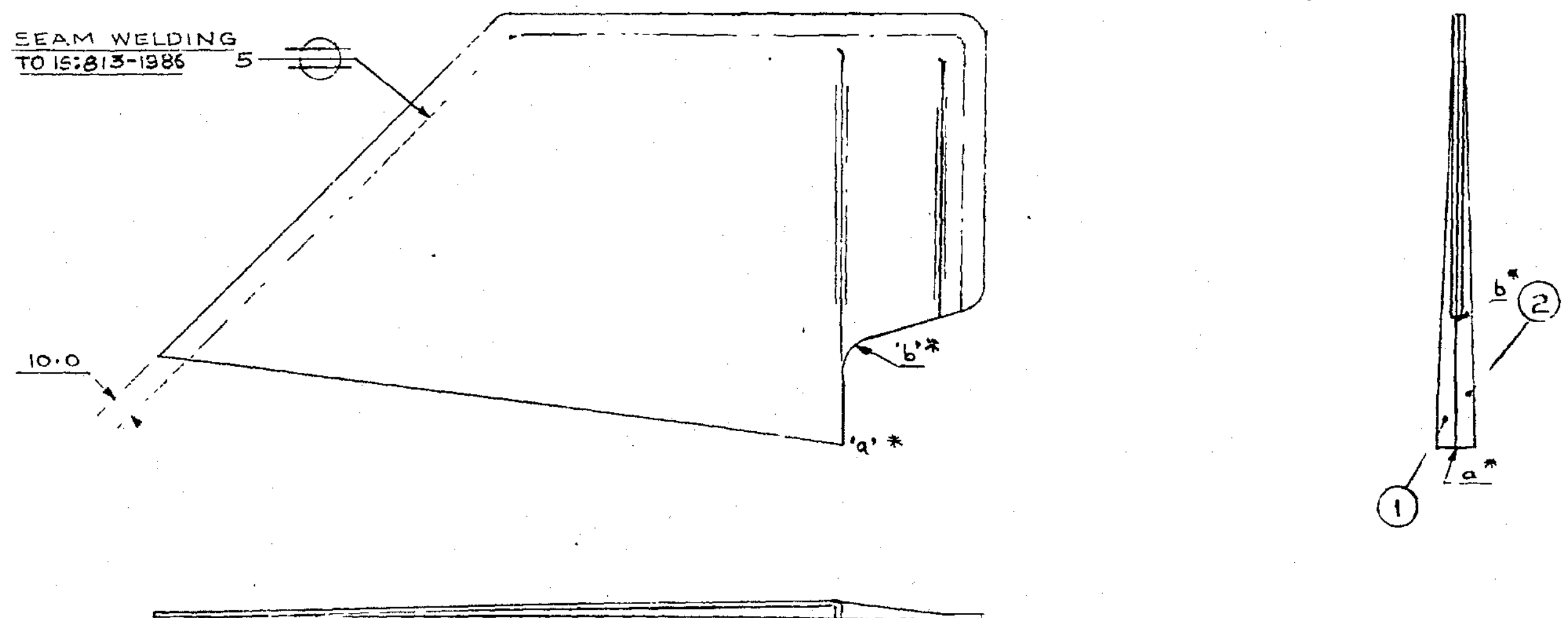
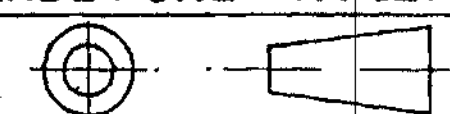
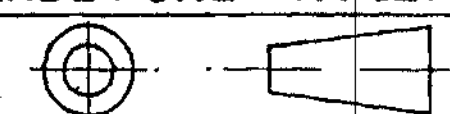
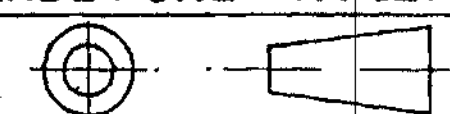


MATL

NEOPRENE RUBBER TO SPEC INJ/ME/884
 (PROV.) HARDNESS 50 TO 55

R. No				DATE				AUTHORITY				BRIEF RECORD				ZONE		CD		GO		MATERIAL		DATE		ASSY DRG NO ARDE 2039 SHF 4	
DRG SEALED				1 May				7/20/86				CR 2044								AS ABOVE		15-7-86		DESIGN AUTHORITY			
																						ARDE PUNE -21					
																						DRG No					
																						ARDE 2039					
																						DET No 11					
																						PART No					
																						D.S CAT No					
																						ANSP					

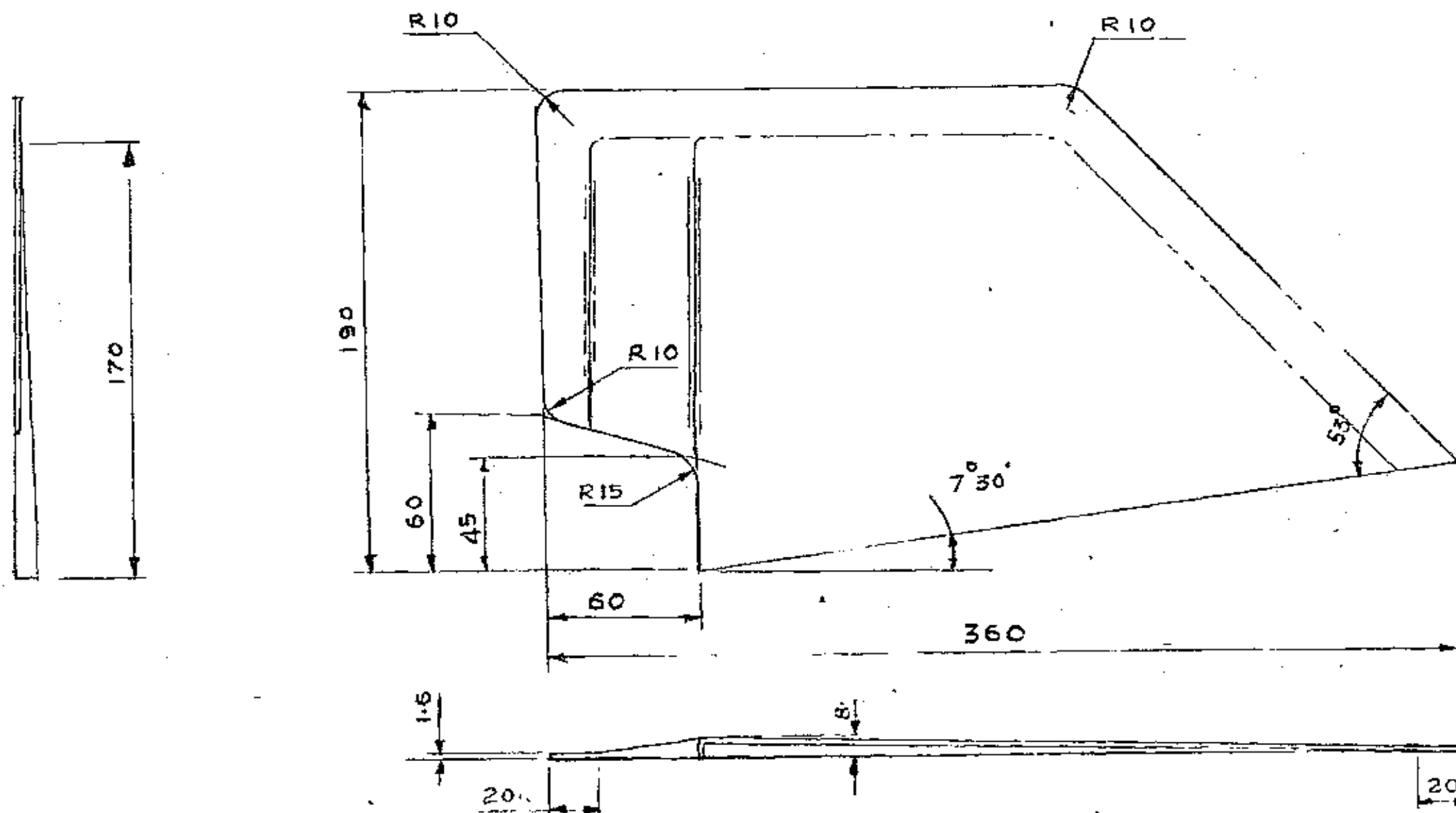
RING RUBBER

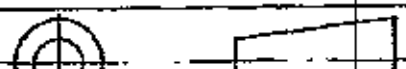
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DRN	CR	PH	AP	CD	CHD.	ST	TRD	COMP.	ASSY DRG ARDE 9501-03/2																																																																																																																																																																						
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ARDE 9501-03

DRAWING CONVENTIONS CONFORM TO IS : 1502
DIMNS ARE IN m.m. UNLESS OTHERWISE STATED
GEN TOL MEDIUM/COARSE/FINE CLASS TO IS: 2102

NOTE: ALL SHARP EDGES & BURRS ARE TO BE REMOVED.



								DRN. C.R. Phadnis	CHD. G.L. - G	TRD.	COMP.	ASSY DRG. ARDE 9501-03 / 13 SHT 1
								CD	PASSED	SCALE: 1:2		DESIGN AUTHORITY
										EST MASS		
								APPROVED	FOR DIRECTOR	GAUGE SCHO:		ARDE PUNE - 411 021
										DATE: 23-5-1996		
R. NO.	DATE:	AUTHORITY	BRIEF RECORD	ZONE	CD	GO		MATL: STEEL TO IS: 1079-54-34				DRG. No.
						SIGN						
DRG SEALED (PROV.)				19 APR. 2008		CRE(AA)		PROTECTIVE FINISH: PHOSPHATED TO IS: 3618 CLASS 'B'				

TITLE:

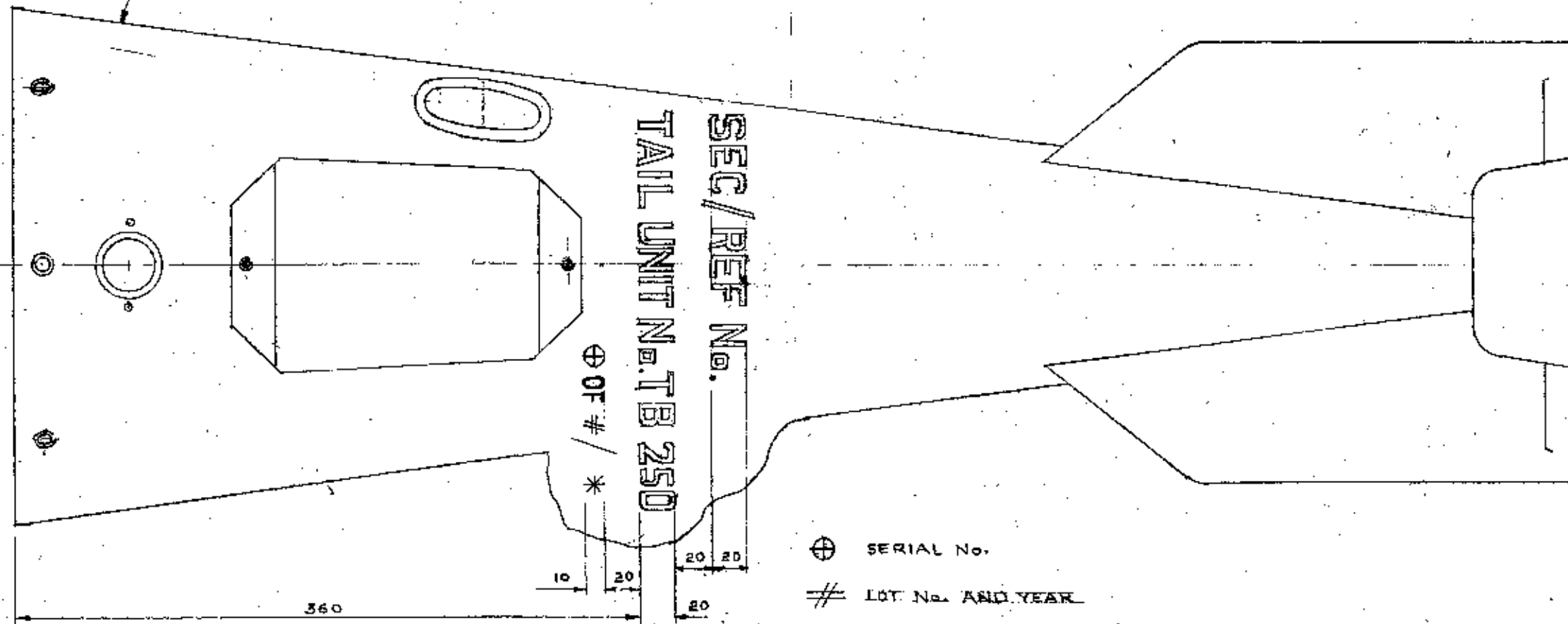
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DRAWING CONVENTIONS CONFORM TO IS: 4000	
DIMNS ARE IN mm. UNLESS OTHERWISE STATED	
ON SHTS	DET. No. 1 SHTS
GEN. TOL. MEDIUM/CLASS TO IS: 2102	
ARDE 9501-03	

NOTES:-

- 1) OMIT PAINT FROM ALL SCREW THREADS & HOLES.
- 2) FIRST COAT :- PAINT, PRE-TREATMENT PRIMER (ETCHING PRIMER) TYPE SPRAYING TO SPECN DEF STAN 80-15/1.
- 3) SECOND COAT :- PAINT, PRIMING CHLORINATED RUBBER, TYPE SPRAYING TO SPECN DEF STAN 80-72/1, COLOUR RED OXIDE (No. 446) TO IS: 5
- 4) THIRD COAT :- PAINT FINISHING, CHLORINATED RUBBER, TYPE SPRAYING TO SPECN DEF STAN 80-72/1, COLOUR DEEP BRONZE GREEN (No. 224) TO IS: 5
- 5) ALL COATS OF PAINTS TO BE APPLIED ALL OVER INTERNALLY AND EXTERNALLY.
- 6) ALL THE MARKINGS ON THE TAIL CONE TO BE STENCILLED/SCREEN PRINTED WITH PAINT, FINISHING, CHLORINATED RUBBER, TYPE BRUSHING TO SPECN. DEF STAN 80-72/1, COLOUR CANARY YELLOW (No. 309) TO IS: 5.
- 7) FOR METHOD OF APPLICATION AND TESTS FOR SUITABILITY OF THE PAINTS, REFER PARA 6.7.4 OF SPECIFICATION No. ARDE / SPECN / 613.

CONE BODY WELDING ASSY.
(ARDE 9501-03/2)



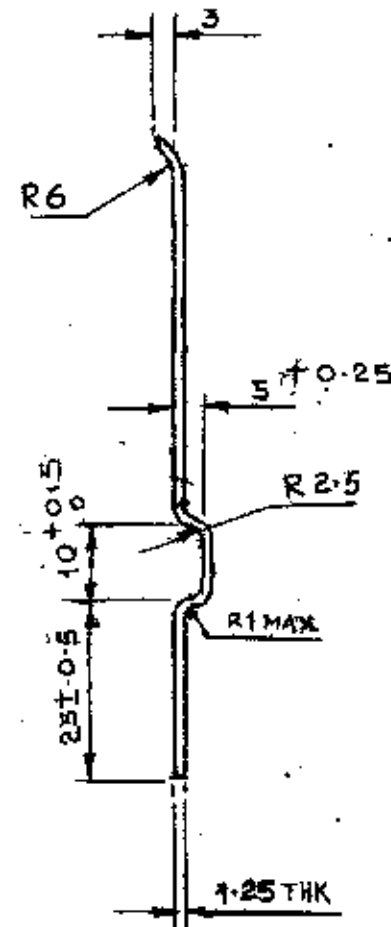
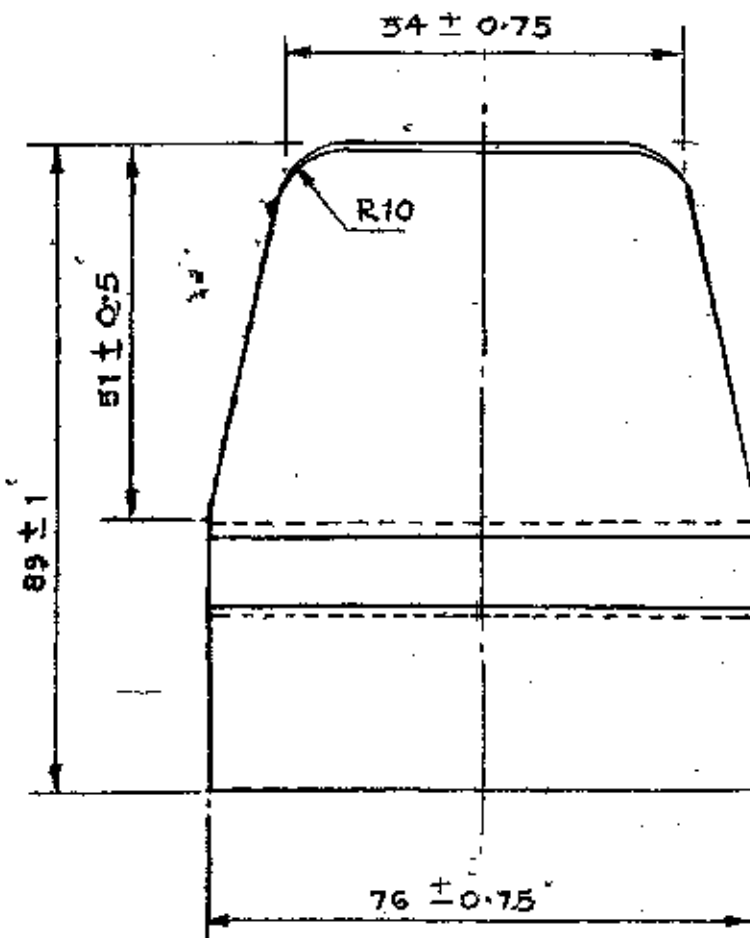
- ⊕ SERIAL No.
- ≠ LOT No. AND YEAR
- * MANUFACTURERS EMBLEM

DRG. No. ARDE 9501-03		DESIGN AUTHORITY	
ARDE PUNE-411021		DATE 17-5-89	
SCALE: 1:2		EST. MASS:	
APPROVED		GALVE 8CHD:	
CD W/		DATE 17-5-89	
PASSED		MATERIAL:	
BRIEF RECORD		PROTECTIVE FINISH:	
DRG SEALED (PROV.)		19 APR 2000	

CONE BODY ASSY
PAINTING & STENCILLING

DRG. No. ARDE 9501-03	
DET. No. 1	SHTS. 1
PART No.	
D.S. CAT. No.	
A.H.S.P.	

DRAWING CONVENTIONS CONFORM TO IS: 696	
DIMENSIONS ARE IN mm. UNLESS OTHERWISE STATED	
GEN. TOL. MEDIUM/CLASS TO IS: 2102	
DET. No. 11	DRG. No. 2283
SHTS.	SHTS.
ON	ON



PROTECTIVE FINISH: —
PHOSPHATING TO IS: 3618 CLASS 'B' OILED & STOVED

NOTE

DRG BASED ON DRG No. ARM 1253A30

DRN. S.M.P.	CHD.	TRD.	COMP.	ASSY. DRG. No. 2283/5
CD	PASSED	SCALE: 1:1	EST MASS:	DESIGN AUTHORITY
APPROVED	FOR DIRECTOR	GAUGE SCHD:	DATE: 28.6.96	ARDE PUNE - 411021
R. NO.	DATE:	AUTHORITY	BRIEF RECORD	ZONE
CD	GO	MATL: STEEL TO SPEC. IS: 513, 6d. 0	ANNEALED CONDITION.	PROTECTIVE FINISH: AS ABOVE
DRG SEALED (PROV)	01 NOV 96	CRE (AA)	TITLE: HANDLE	
DRG. No.	ARDE 2283			
DET. No. 11	SHTS.	SHT. No.		
PART No.				
D.S. CAT. No.				
A.H.S.P.				

1	2	3	4
PART no.		DRAWING CONVENTIONS CONFORM TO IS : 696	
DET. No. 8 SHTS.		DIMNS ARE IN m.m. UNLESS OTHERWISE STATED	
DRG. No.		GEN. TOL. MEDIUM / COARSE FINE CLASS TO IS 2102	
ARDE 2283 DRG. No.			
SHTS.			
SHTS.			
SHTS.			
PROTECTIVE FINISH :— PHOSPHATING TO SPEC-IS:3618 CLASS B OILED & STOVED .			
R. NO.	DATE :	AUTHORITY	BRIEF RECORD
			ZONE
			CD GO
			SIGN
DRG. SEALED (PROV) <i>For in Furni</i> 01 NOV 96 CRE(AA)			
DRN. SMP	CHD.	TRD.	COMP.
CD	PASSED <i>[Signature]</i>	SCALE: 1:1	ASSY. DRG. ARDE 2283 SHTS 4
APPROVED <i>[Signature]</i>		EST. MASS:	DESIGN AUTHORITY
FOR DIRECTOR		GAUGE SCHD :	ARDE PUNE-411 021
DATE: 28.6.96			
MATL: STEEL TO SPEC-IS: 513 Gd50			
ANNEALED CONDITION			
PROTECTIVE FINISH : AS ABOVE			DRG. No.
TITLE :			ARDE 2283
<u>BOTTOM PLATE TIE PIECE</u>			DET. No. 8 SHTS.
			SHT. No.
			PART No.
			D.S.CAT.No.
			A.H.S.P.

ON PART NO. 12
 DIM. ARE IN MM
 GEN. TOL. MEDIUM CLASS TO IS: 2102
 ARDE 2039
 DRG NO.

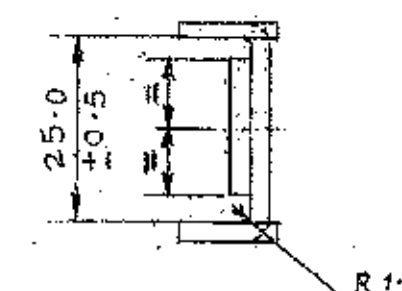
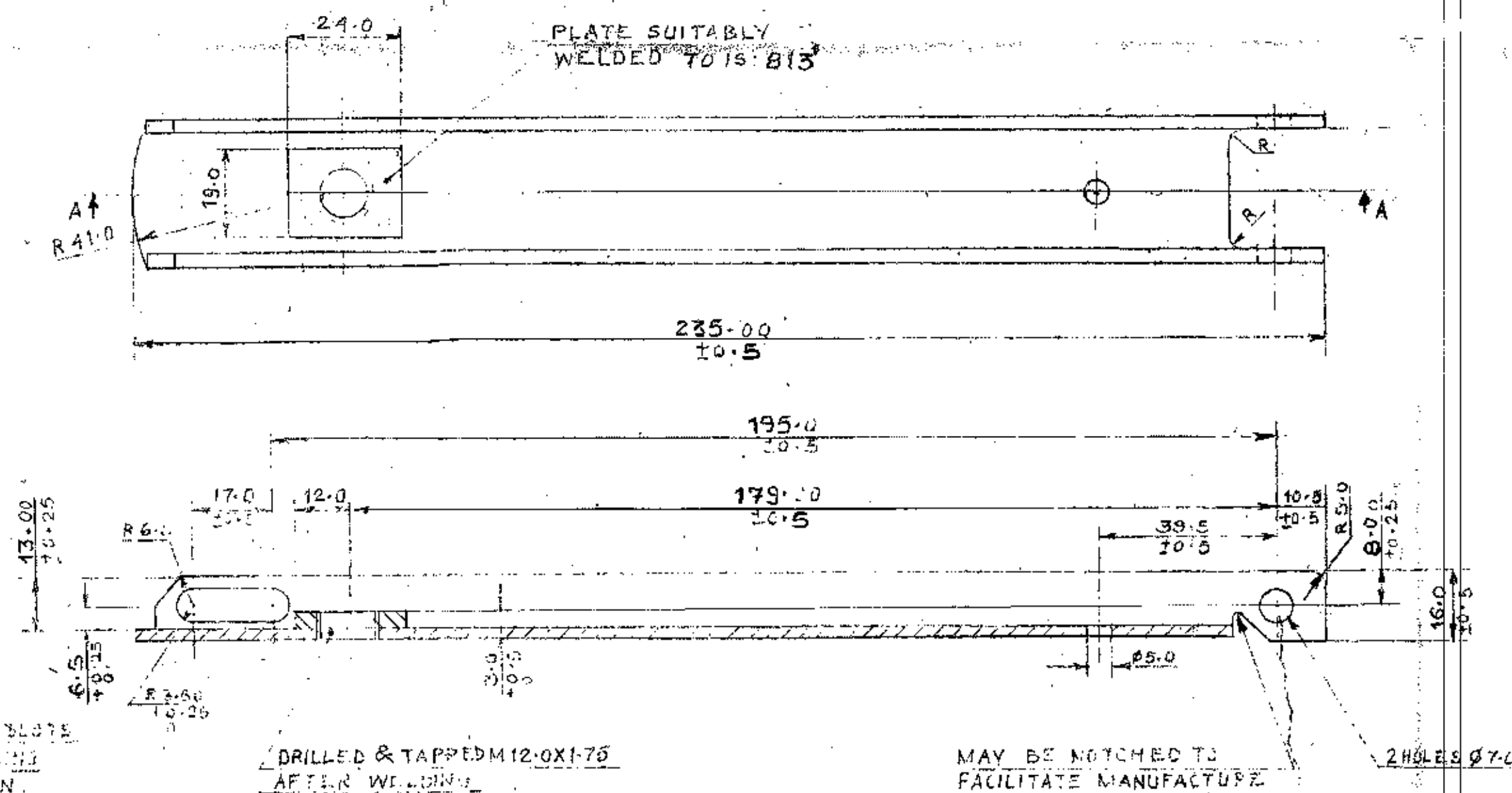
NOTE:

ALL SHARP EDGES & BURRS ARE TO BE REMOVED.

MATL:

MILD STEEL 25mm THICK TO SPEC IS: 1079-Gd

ST 34 HOT ROLLED & ANNEALED



PROTECTIVE FINISH:

a) PHOSPHATED TO SPEC IS: 3618 CLASS A1.

SECTION AA

DRN: <i>Pratik</i>	CHD: <i>Pratik</i>	TRD: <i>Pratik</i>	COMP: <i>Pratik</i>	ASSY DRG ARDE 2039 SHT 4
C.D. <i>Pratik</i>	PASSED <i>Pratik</i>	SCALE: 1:1	EST WEIGHT:	DESIGN AUTHORITY
APPROVED <i>Pratik</i>	FOR DIRECTOR <i>Pratik</i>	GAUGE 3CHD	DATE: 15-7-86	ARDE, PUNE-21
MATL: AS ABOVE	PROTECTIVE FINISH: AS ABOVE			
DATE: <i>15-7-86</i>	AUTHORITY: <i>Pratik</i>	BRIEF RECORD	ZONE: <i>C.D.</i>	DRG No. ARDE 2039
DRN: <i>Pratik</i>	CHD: <i>Pratik</i>	TRD: <i>Pratik</i>	COMP: <i>Pratik</i>	DET. No. 12 SHT. No. 4
				PART No.
				D.S. CAT No.
				AHSP

ARM

8		7		6		5		4		3		2		1					
DRG CONVENTIONS CONFORM TO IS: 696.												DIMNS ARE IN mm.				GEN. TOL:-MEDIUM CLASS TO IS: 2102.			
PART N ^o												DET N ^o 19				DRG N ^o ARDE 2039			
DRG N ^o ARDE 2039												DRG N ^o ARDE 2039				DRG N ^o ARDE 2039			
DATE AUTHORITY												DATE AUTHORITY				DATE AUTHORITY			
AMENDED VIDE AL NO. 600												AMENDED VIDE AL NO. 600				AMENDED VIDE AL NO. 600			
BRIEF RECORD												BRIEF RECORD				BRIEF RECORD			
ZONE												ZONE				ZONE			
CD GO												CD GO				CD GO			
SIGN												SIGN				SIGN			
PROTECTIVE FINISH :- AS ABOVE												PROTECTIVE FINISH :- AS ABOVE				PROTECTIVE FINISH :- AS ABOVE			
DRG SEALED <i>Free sign</i> = <i>CR 600</i>												DRG SEALED <i>Free sign</i> = <i>CR 600</i>				DRG SEALED <i>Free sign</i> = <i>CR 600</i>			
DRN: SLL CHD												DRN: SLL CHD				DRN: SLL CHD			
CD 1/1.5												CD 1/1.5				CD 1/1.5			
APPROVED												APPROVED				APPROVED			
GAGE SCHD												GAGE SCHD				GAGE SCHD			
EST MASS												EST MASS				EST MASS			
SCALE: 2:1												SCALE: 2:1				SCALE: 2:1			
TRD												TRD				TRD			
COMP												COMP				COMP			
ASSY DRG ARDE 2039/9												ASSY DRG ARDE 2039/9				ASSY DRG ARDE 2039/9			
DESIGN AUTHORITY												DESIGN AUTHORITY				DESIGN AUTHORITY			
ARDE PUNE 21												ARDE PUNE 21				ARDE PUNE 21			
DET N ^o 19												DET N ^o 19				DET N ^o 19			
SHTS												SHTS				SHTS			
PART N ^o												PART N ^o				PART N ^o			
DS CAT N ^o												DS CAT N ^o				DS CAT N ^o			
AHSP												AHSP				AHSP			

SECTION 'A-A'

NOTE:-
ALL SHARP EDGES
& BURRS ARE TO
BE REMOVED.

PROTECTIVE FINISH:-
PHOSPHATED TO
SPEC. IS: 13618.
CLASS A1.

MILD STEEL SHEET 2.5 mm.
THICK TO SPEC. IS: 1079
Gd ST-34 HOT ROLLED
& ANNEALED.

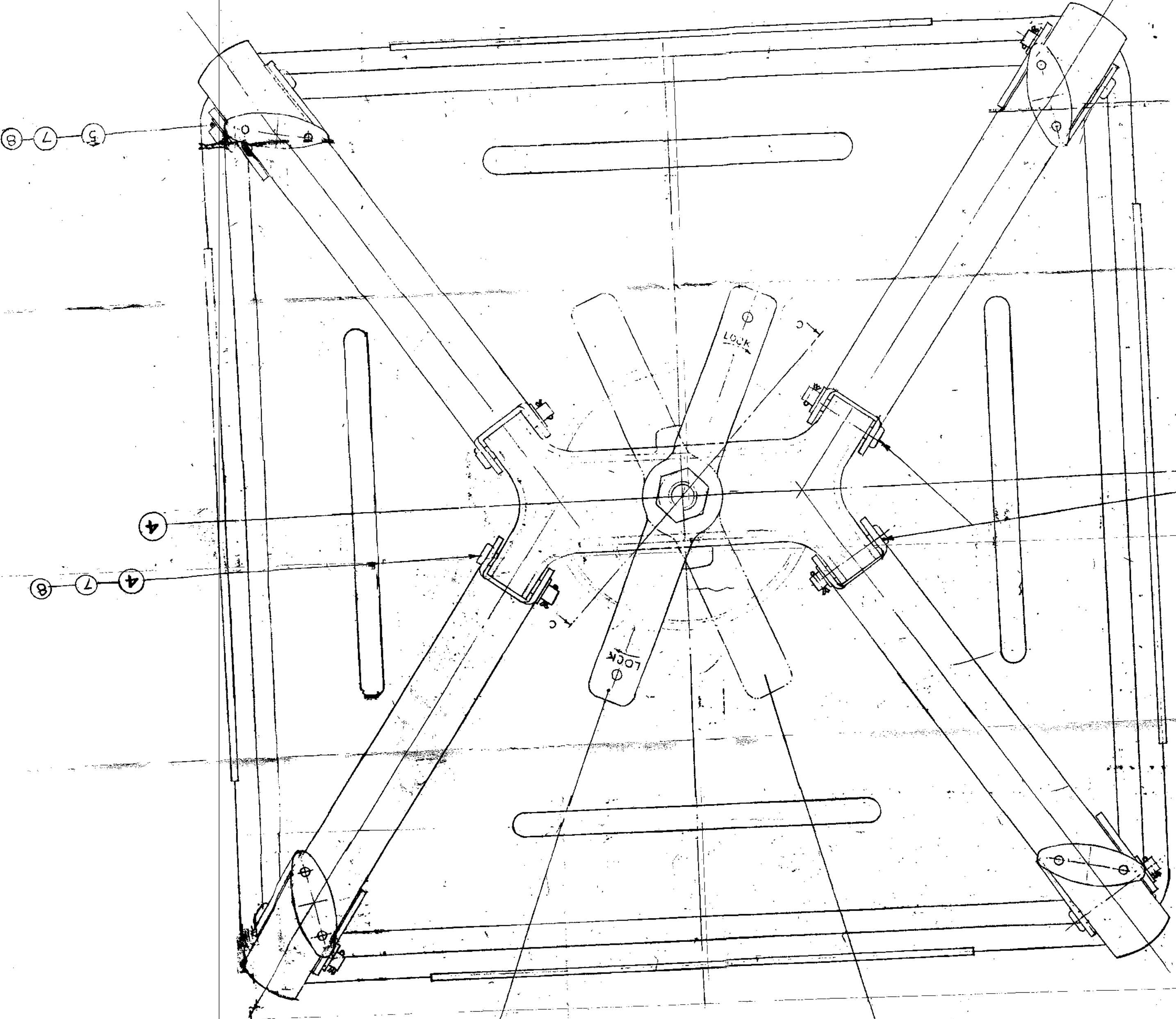
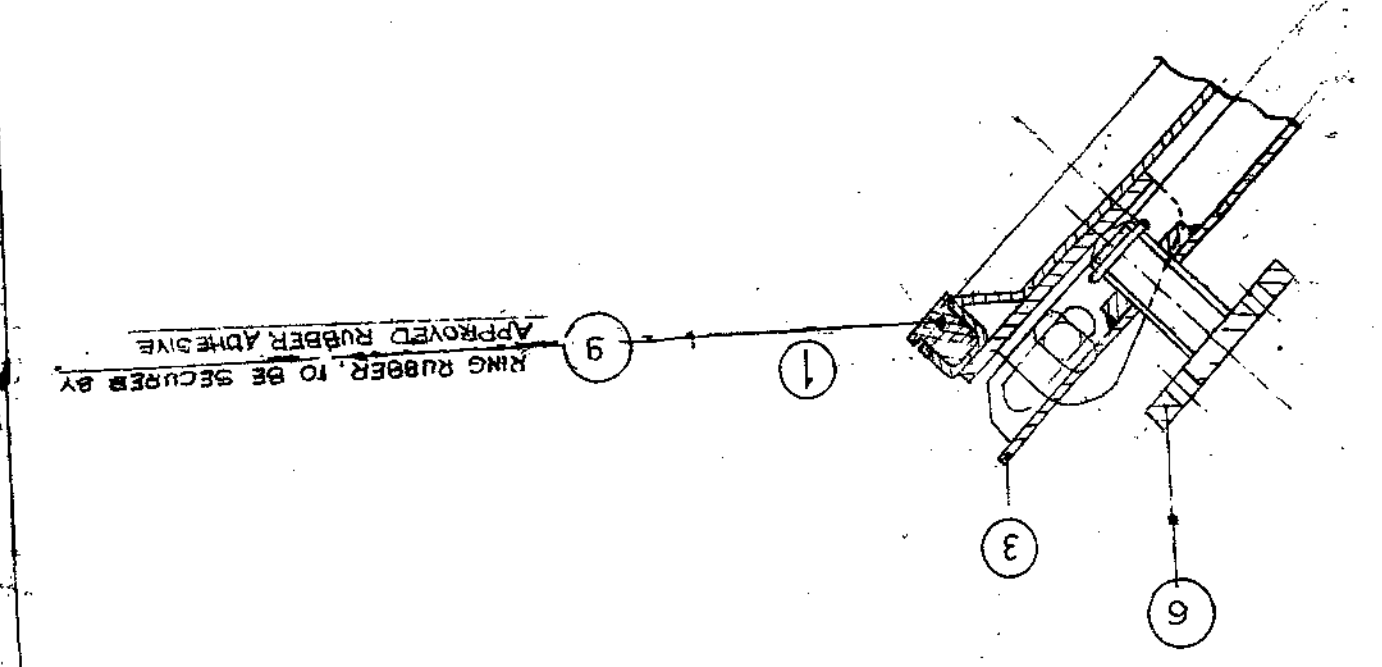
MATERIAL:-

SEALING LID-ASSEMBLY

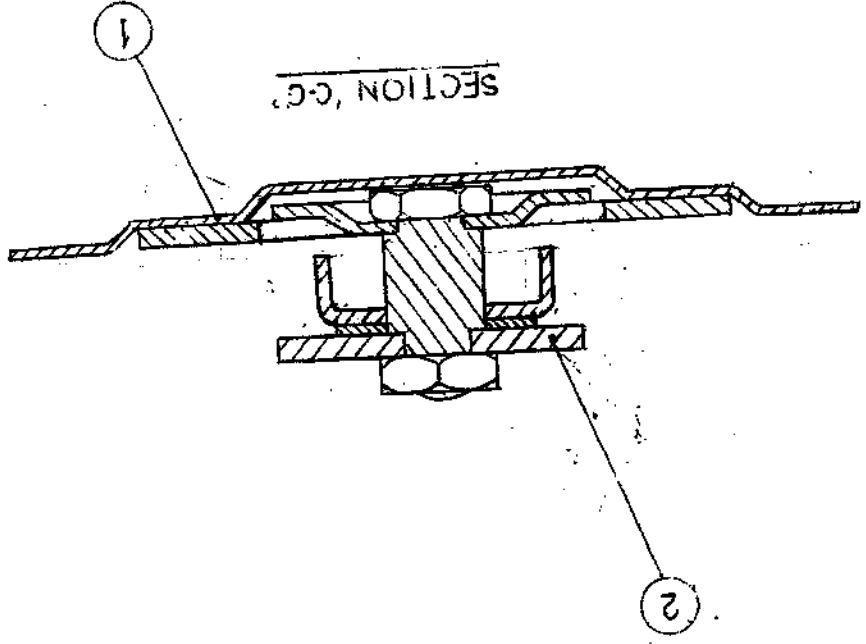
ASSY DRAWING 2039	
DESIGN AUTHORITY	
DATE	
BRIEF RECORD	
DESIGN RECORD	
ZONE	
SIGN	
PROTECTIVE FINISH AS ABOVE	
DATE	
APPROVED	
DATE	
GAGE	
EST WEIGHT	
SCALE	
DESIGN	
ASSY	
DRAWING	
PART NO	
D.S. CAT NO	
AHSP	

PROTECTIVE FINISH:
a) PHOSPHATE TO 1512616 CLASS A1.
b) TO BE PAINTED EXTERNALLY AND INTERNALLY WITH ONE COAT OF RED MIXED PAINT AIR DRYING MATT FOR GENERAL PURPOSES.
c) TO BE PAINTED EXTERNALLY & INTERNALLY WITH ONE COAT OF READY MIXED PAINT, SEMI GLOSSY MATT FINISH OVERGREEN.
TO SPEC. 15-108 WITH 1512616 CLASS A1.
TO SPEC. 15-108 WITH 1512616 CLASS A1.

PART SECTION A-A



IT IS IMPORTANT THAT
TWO PINS BE
INSERTED WITH
DIRECTION SHOWN

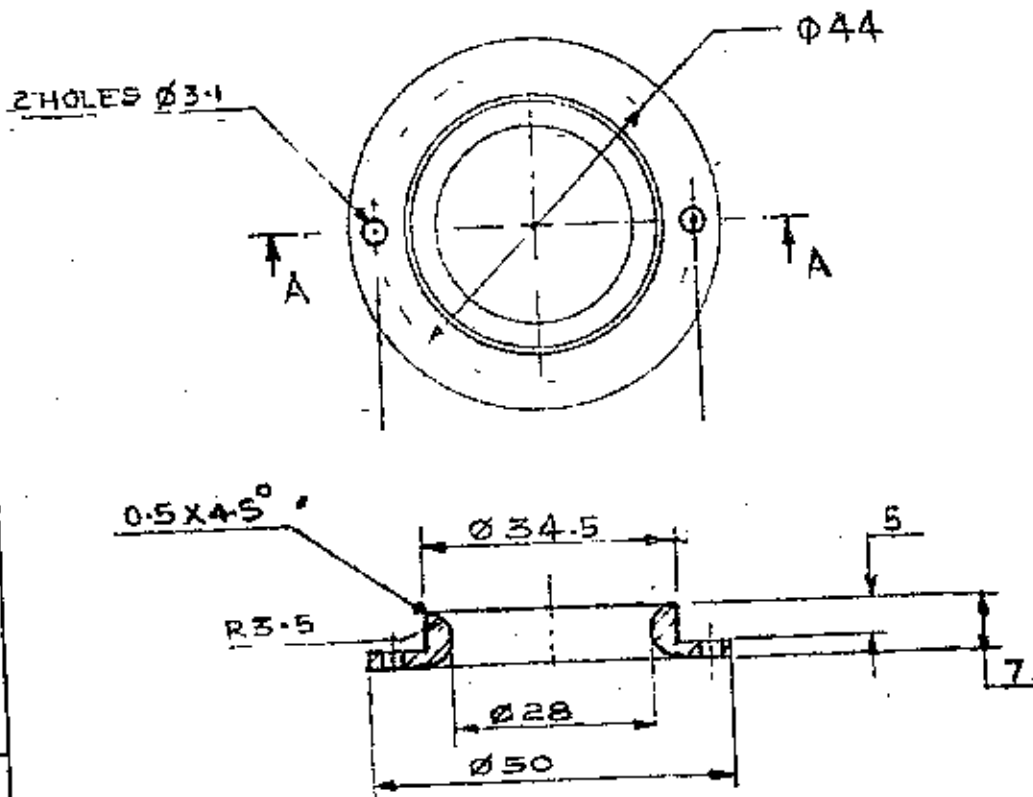


1	LID (WELDING)
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98	WELDING
99	WELDING
100	WELDING

DRAWING CONVENTIONS CONFORM TO IS :
DIMNS ARE IN m.m. UNLESS OTHERWISE STATED

GEN. TOL. MEDIUM / CLASS TO IS 2102

NOTE :- ALL SHARP EDGES & BURRS ARE
TO BE REMOVED.

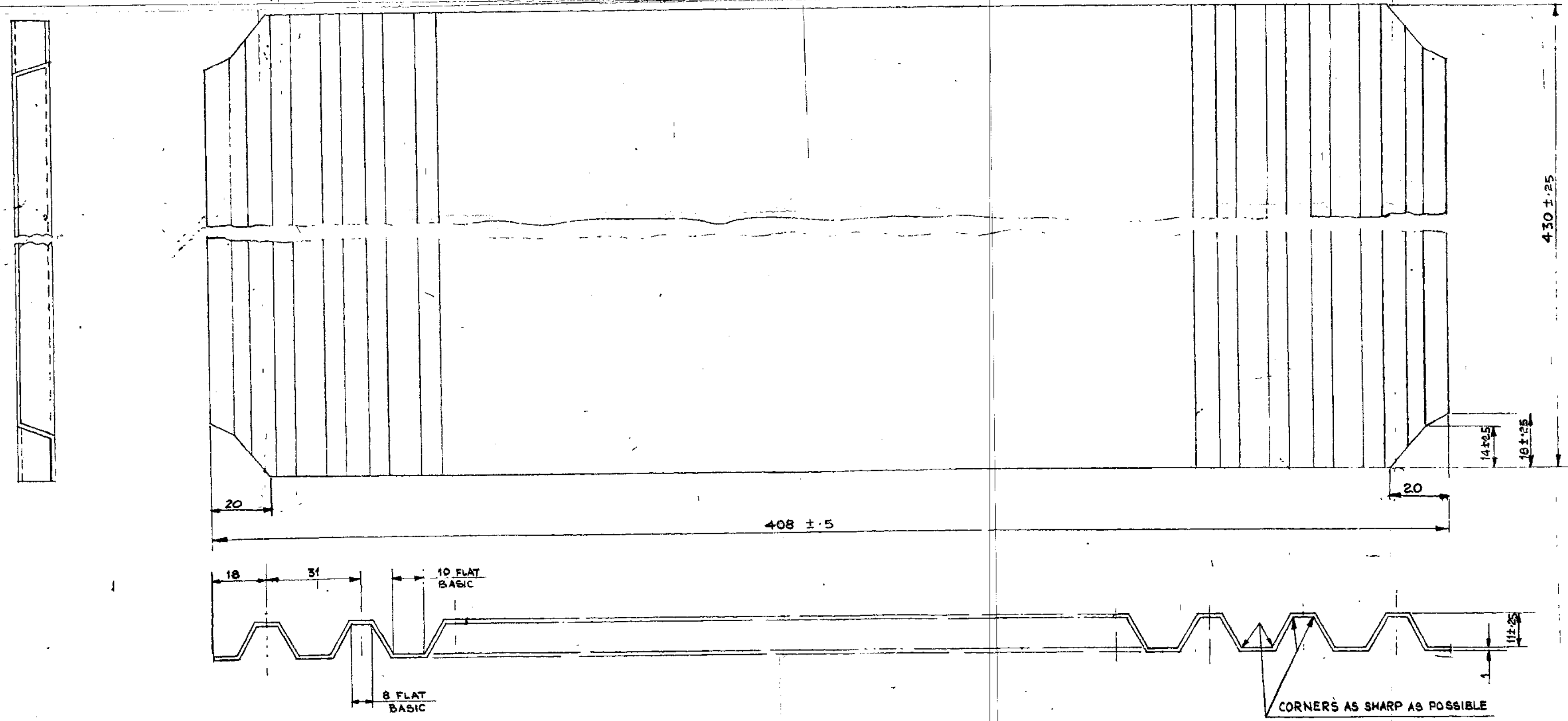


A-A

R. NO	DATE:	AUTHORITY	BRIEF RECORD	ZONE	CD	GO
DRG SEALED (PROV.)			19 APR 2000			
DRN.C.R. Phd.	CHD.	TRD.	COMP.	ASSY. DRG. ARDE 9501-03 / 2		
CD	PASSED/	SCALE: 1:1	DESIGN AUTHORITY			
APPROVED		EST. MASS:	ARDE PUNE-411 021			
CR (PUNJAB)		GAUGE SCHD:				
MATEL: BRASS TO IS: 319 ANY CONDITION.		DATE: 17-7-1995				
PROTECTIVE FINISH:			DRG. No.			
TITLE:			ARDE 9501-03			
			DET. No. 14		SHTS.	SHT. No.
			PART No.			
			D.S.CAT.No.			
			A.H.S.P.			
			17			

GROMET

DRAWING CONVENTIONS CONFORM TO IS 696	
DIMNS ARE IN mm. UNLESS OTHERWISE STATED	
GEN TOL MEDIUM CLASS TO IS 2102	
DET No 6	SHTS
DRG No ARDE 2283	



NOTE :-

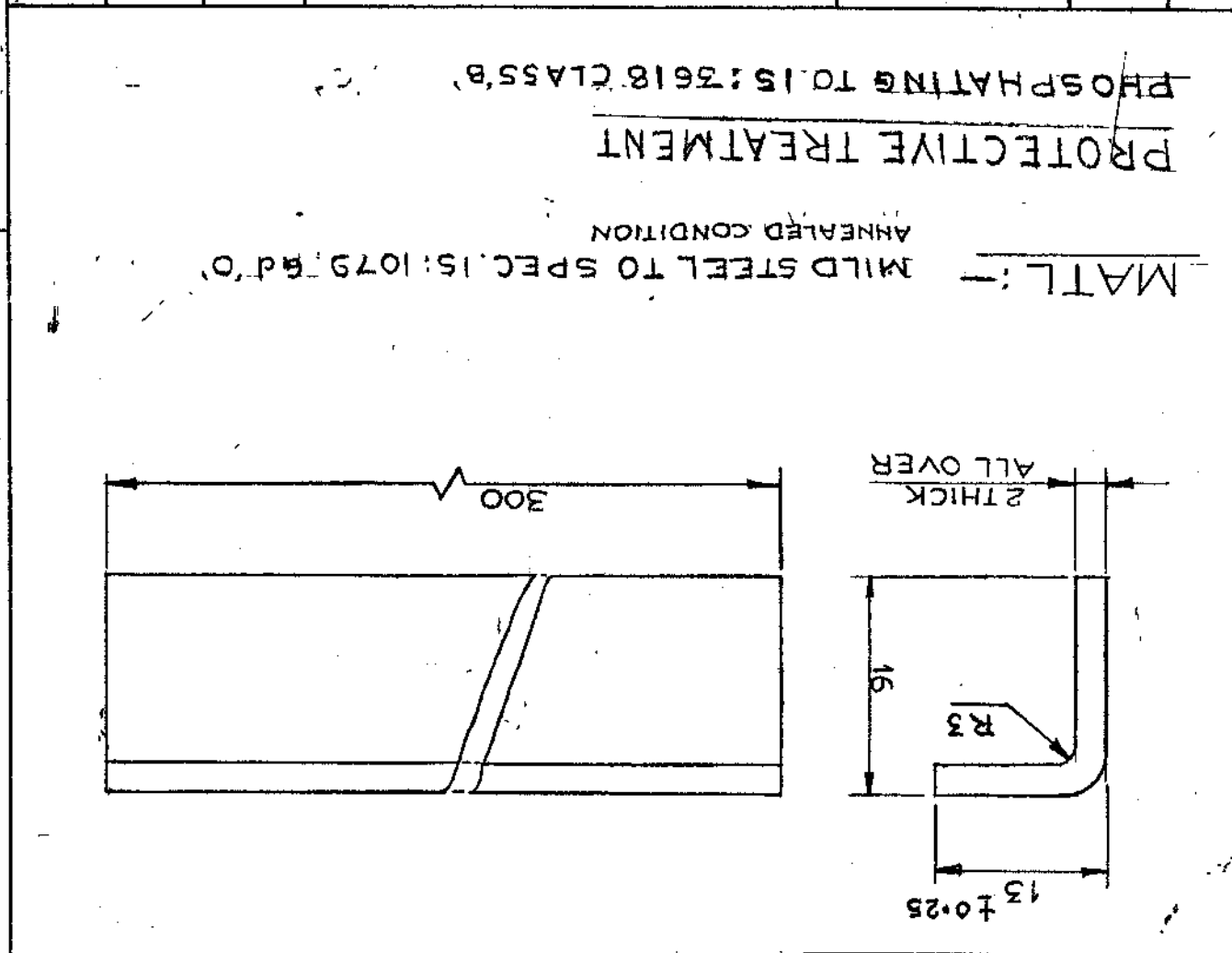
CORRUGATION MUST BE WITHIN
± 0.25 OF THEIR CORRECT
LONGITUDINAL POSITION,

PROTECTIVE FINISH:- PHOSPHATING TO IS: 3618 CLASS 'B'
OILED AND STOVED.

DRN <i>Line</i>		CHD <i>6</i>	TRD	COMP	ASSY DRG ARDE 2283, SHT 4
CD		PASSED <i>Signature</i>	SCALE 1:1		DESIGN AUTHORITY
APPROVED		<i>Signature</i> FOR DIRECTOR	EST MASS:		ARDE PUNE - 411 021
			GALVE SCHD		
			DATE 28.6.96		
R NO	DATE	AUTHORITY	BRIEF RECORD	ZONE	CD GO
DRG SEALED (PROV)		61 NOV 96		CD (AA)	MATL STEEL TO SPEC. IS: 513 & 10
					ANNEALED CONDITION
					PROTECTIVE FINISH. AS ABOVE.
TITLE					DRG No
BOTTOM PLATE					ARDE 2283
					DET No 6 SHTS
					SHT No
					PART No
					D S CAT No
					AHSP

A.H.S.P.		D.S.CAT.No.		PART No.		DET. No. 3		SHTS.		SHT. No.	
ARDE 2283		DRG. No.		PROTECTIVE FINISH : AS ABOVE		TITLE :		BRACKET			
AS ABOVE		MATERIAL :		DATE : 28-6-96		FOR DIRECTOR		APPROVED			
ARDE PUNE-411 021		GAGE SCHED :		EST. MASS :		SCALE : 2:1		CD		PASSED	
DESIGN AUTHORITY		TRD.		COMP.		CHD.		DRN. S.L.L.		DRG. SEALED (PROV)	
ASSY. DRG. ARDE. 2283, SHT 3		CRE (AA)		01 Nov 96		Sgt. M. S. S.		Sgt. M. S. S.		Sgt. M. S. S.	

R. NO.	DATE :	AUTHORITY	BRIEF RECORD	ZONE	CD	GO	SIGN



DRG. No.		ARDE 2283	
DET. No.		SHTS.	
PART No.		SHTS.	
DRAWDING CONVENTIONS CONFORM TO IS : 696		DIMNS ARE IN M.M. UNLESS OTHERWISE STATED	
GEN. TOL. MEDIUM / CLASS TO IS 2102			

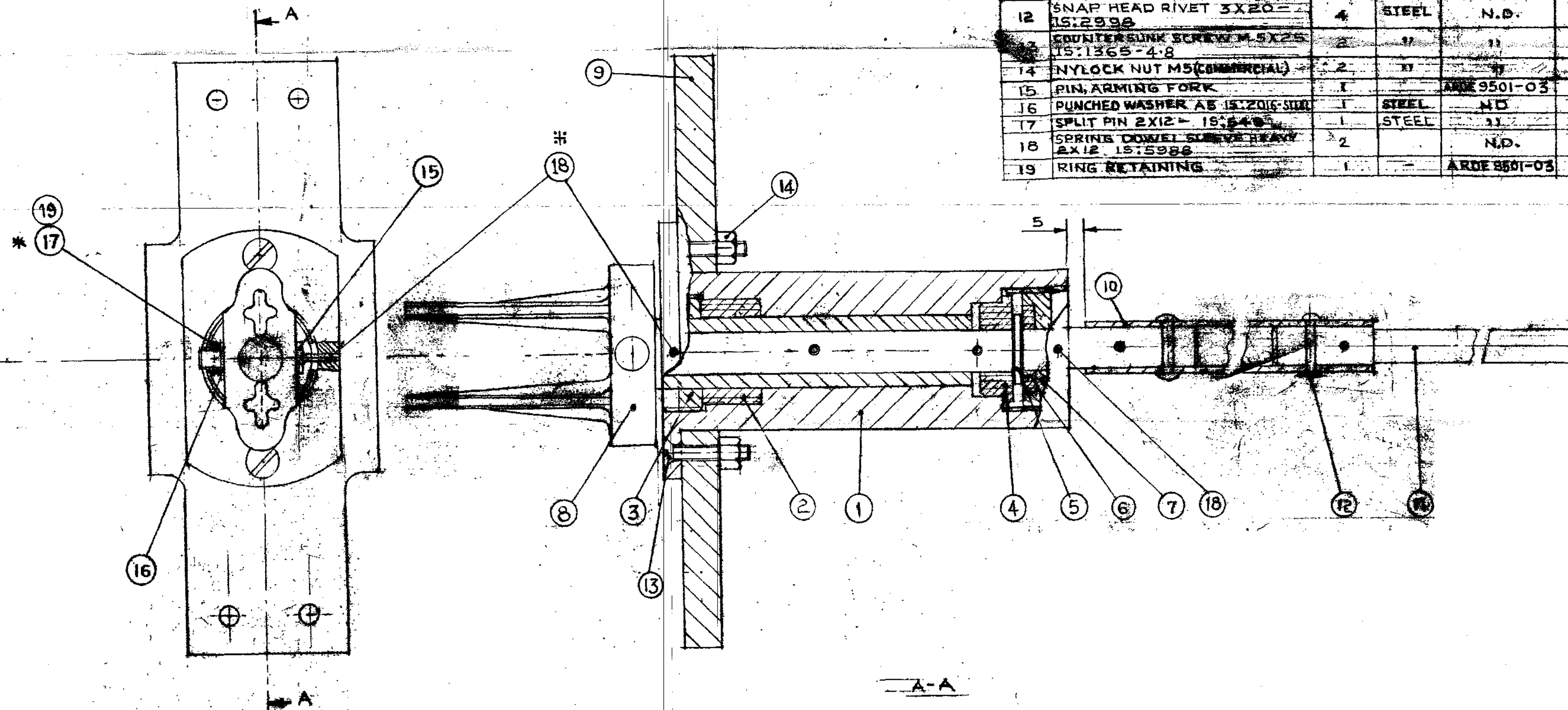
DRAWING CONVENTIONS CONFORM TO IS: 1000	
DIMNS ARE IN m.m. UNLESS OTHERWISE STATED	
GEN. TOL. MEDIUM/COURSE/FINE CLASS TO IS: 2102	
ON LHS	ON RHS
ARDE 9501-03	ARDE 9501-03

NOTES:-

1. CLOSING PLUG FRONT BEARING (ITEM No 3) & CLOSING-PLUG REAR BEARING (ITEM No 7) TO BE UNSCREWED BY UP TO ONE FOURTH TURN FROM THE FULLY SCREWED-IN POSITION & ENSURE FREE ROTATION OF ARMING FORK (ITEM No 8) & FORK SPINDLE (ITEM No 5)
2. ALIGN THE SLOT OF THE CLOSING PLUGS (ITEM No 3 & ITEM No 7) WITH THE HOLE ON THE HOUSING (ITEM No 1) FOR THE ASSEMBLY OF SPRING DOWEL SLEEVE (ITEM No 18)
3. ALL STANDARD COMPONENTS (EXCEPT NYLOCK NUT, ITEM No 14) TO BE CADMIUM PLATED TO IS: 1572, Cd 12, BEFORE ASSEMBLY.

LIST OF COMPONENTS

ITEM	NOMENCLATURE	QTY	MATL	DRG No.	DET No.
1	HOUSING	1		ARDE 9501-03	15
2	FORK BEARING FRONT	1		24	
3	CLOSING PLUG FRONT BEARING	1		25	
4	FORK BEARING REAR	1		26	
5	FORK SPINDLE	1		17	
6	BEARING WASHER	1		18	
7	CLOSING PLUG REAR BEARING	1		23	
8	ARMING FORK	1		28	
9	BOTTOM PLATE	1		72	
10	ARMING TUBE	1		20	
11	VANE SPINDLE	1		21	
12	SNAP HEAD RIVET 3X20-15:2998	4	STEEL	N.D.	
13	COUNTERSUNK SCREW M 5X25-15:1365-4.8	2			
14	NYLOCK NUT M5 (COMMERCIAL)	2			
15	PIN, ARMING FORK	1		ARDE 9501-03	40
16	PUNCHED WASHER AS 15:2016-SH1	1	STEEL	N.D.	
17	SPLIT PIN 2X12-15:5405	1	STEEL	21	
18	SPRING DOWEL SLEEVE HEAVY 2X12-15:5988	2		N.D.	
19	RING RETAINING	1		ARDE 9501-03	41



* ITEM No. 17 SPLIT PIN TO BE REPLACED BY ITEM No. 19 RING RETAINING TO DRG No. ARDE 9501-03 DET. No. 41 IN FINAL ASSY.

ITEM No. 18 SPRING DOWEL SLEEVE TO BE ASSEMBLED AFTER ENSURING FREE ROTATION OF THE ARMING FORK AND FORK SPINDLE IN ASSEMBLY.

DRG. NO.	CD	CHD.	TRD.	COMP.	DRG. NO.
ARDE 9501-03	CD	CHD.	TRD.	COMP.	ARDE 9501-03
APPROVED	PASSED	DATE	SCALE: 1:1	DET. NO.	ARDE PUNE-411-021
DATE: 13-11-1988	DATE: 13-11-1988	DATE: 13-11-1988	DATE: 13-11-1988	DATE: 13-11-1988	DATE: 13-11-1988
R. NO.	DATE:	AUTHORITY	BRIEF RECORD.	ZONE	CD GO
DRG SEALED (PROV.)	DATE:	AUTHORITY	BRIEF RECORD.	ZONE	CD GO

ARMING FORK ASSY.

ARDE 9501-03
DET. No. 15
DATE: 13-11-1988
DATE: 13-11-1988

ITEM No. 1 SECURED TO ITEM No. 2
BY 13 SPOT WELDS $\phi 5$

ITEM No. 1 SECURED TO ITEM No. 5 BY
13 SPOT WELDS $\phi 4$

LIST OF COMPONENTS					
SRN	DESCRIPTION	DRG. No.	DET. No.	PART No.	QTY. OFF
1	LINK ASSY	ARDE 2283	5		1
2	BOTTOM PLATE	ARDE 2283	6		1
3	TOP PLATE	ARDE 2283	7		1
4	BOTTOM PLATE TIE PIECE	ARDE 2283	8		1

ITEM No. 4 SECURED TO ITEM
No. 2 BY 12 SPOT WELDS $\phi 5$
BEFORE ASSEMBLING ITEM
No. 1

HINGE PLATE TO BE WELDED IN
SUCH A MANNER THAT LID IS
FULLY OPEN WHEN LINK IS
FLAT AGAINST TOP PLATE

SPOTWELDING TO SPEC. IS: 819

DRN: 4222	CD: PASSED	TRD: SCALE: 1:1	COMP: EST. MASS:	ASSY DRG: ARDE 2283, SHT 2
APPROVED: [Signature]	DATE: 28.6.96	GAUGE SCHED:		DESIGN AUTHORITY
DRG SEALED (PROV)	ZONE	CD GO	MATL:	ARDE PUNE - 411021
		CRE (CA)	PROTECTIVE FINISH: PHOSPHATED TO SPEC IS: 3618, CL-B	

INNER LID ASSY

DRG. No.
ARDE 2283
 DET. No. 4 SHTS. 4 SHT. No. 4
 PART No.
 D. S. CAT. No.
 A.H.S.P.

TOP PLATE

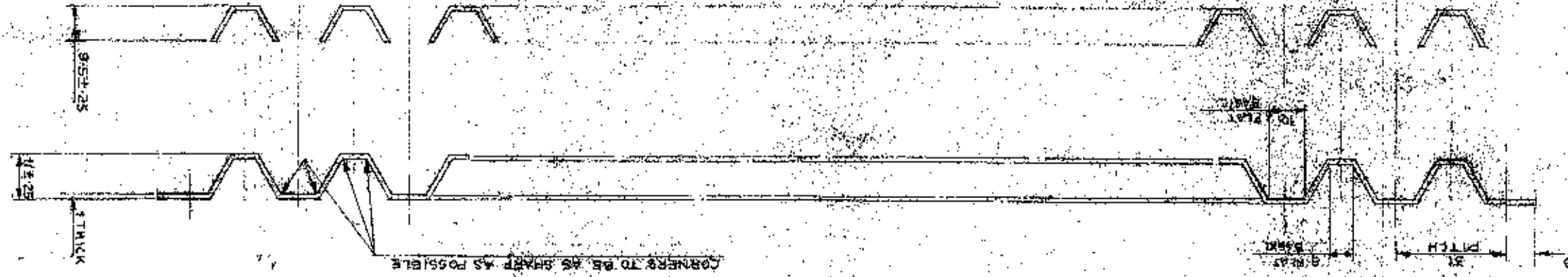
DRG. No.	ARDE 2283	DATE	01 Nov 96
PART No.	DET. No. 7	DATE	28-6-96
D.S. CAT. No.	SHT. No.	DATE	28-6-96
A.H.S.P.		DATE	28-6-96

PROTECTIVE FINISH: AS ABOVE	ANNEALING CONDITION	DATE: 28-6-96
MAIL: STEEL TO SPEC. IS: 513 G4.06	APPROVED	DATE: 28-6-96
SCALE: 1:1	PASSED	DATE: 28-6-96
ASSY. DRG. ARD & 2283, SHT. 4	DESIGN AUTHORITY	DATE: 28-6-96
ARDE PUNE-411 021		DATE: 28-6-96

DRG. No.	ARDE 2283	DATE	01 Nov 96
PART No.	DET. No. 7	DATE	28-6-96
D.S. CAT. No.	SHT. No.	DATE	28-6-96
A.H.S.P.		DATE	28-6-96

NOTE:-
CORRUGATIONS MUST BE WITHIN ± 0.25
OF THEIR CORRECT LONGITUDINAL
POSITION.

SECTION-AA

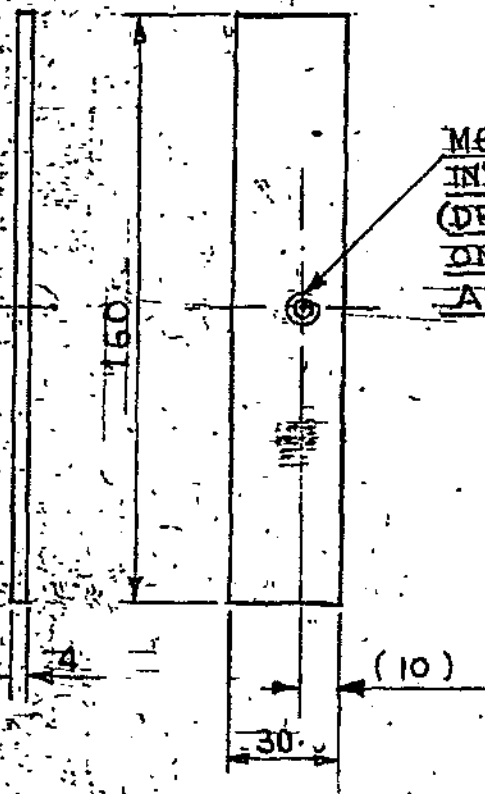


DRG. No.	ARDE 2283
PART No.	DET. No. 7
SHTS. No.	SHTS. No.

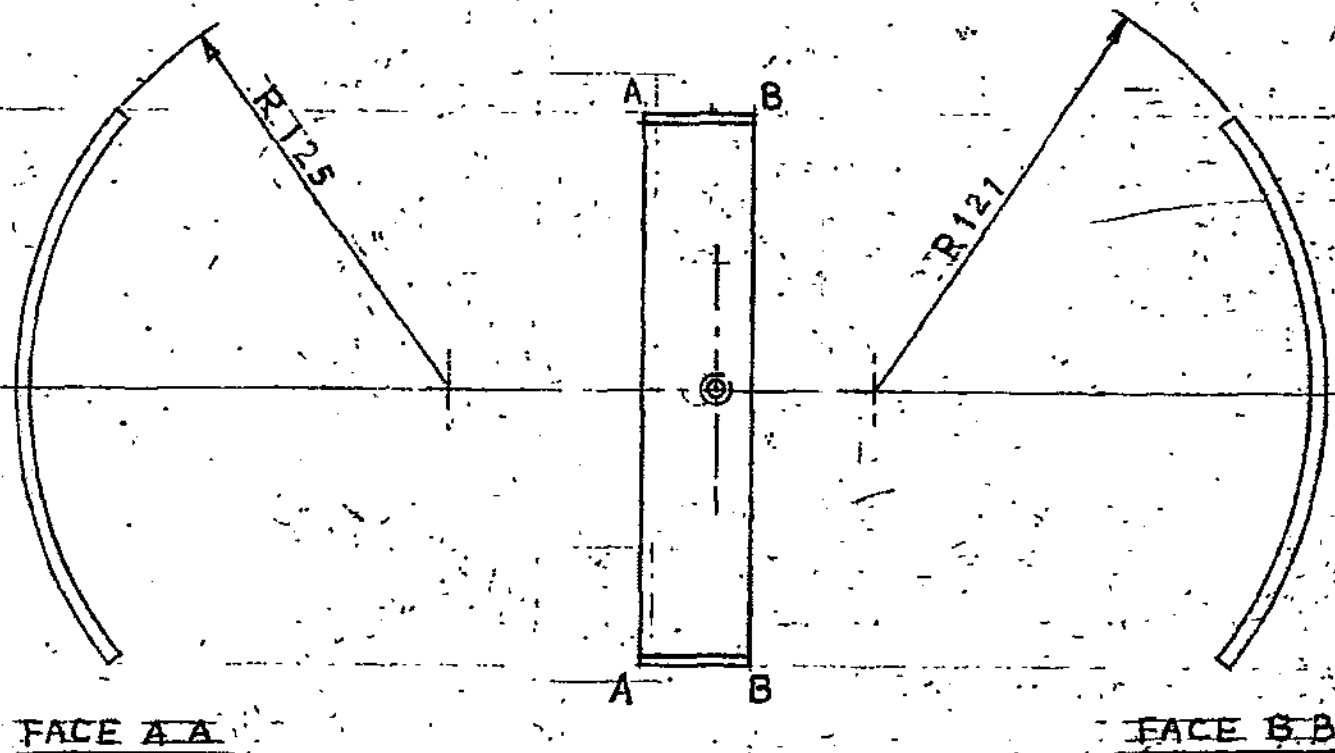
DRAWING CONVENTIONS CONFORM TO IS: 696
DIMENSIONS ARE IN M.M. UNLESS OTHERWISE STATED
GEN. TOL. MEDIUM CLASS TO IS: 2102

DRAWING CONVENTIONS CONFORM TO IS : 2000	
DIMNS ARE IN m.m. UNLESS OTHERWISE STATED	
GEN. TOL. MEDIUM/COARSE/FINE CLASS TO IS : 2102.	
DRG. No.	DET. No. 9
ARDE 9501-03	

NOTE: ALL SHARP EDGES & BURRS ARE TO BE REMOVED.



VIEW ON DEVELOPMENT



VIEW AFTER FORMING

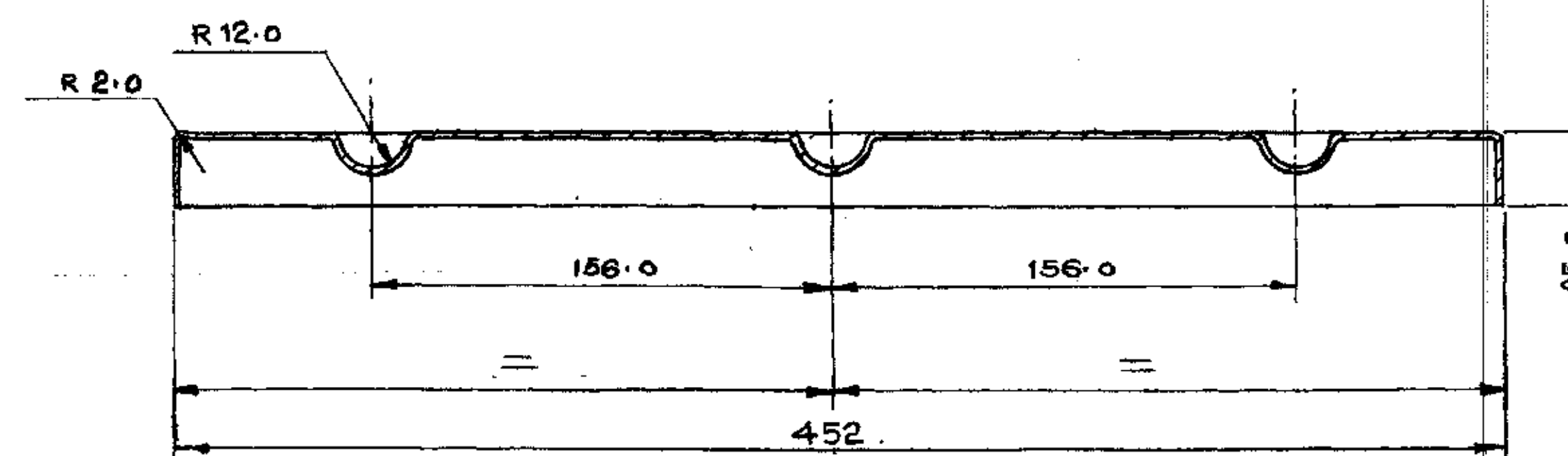
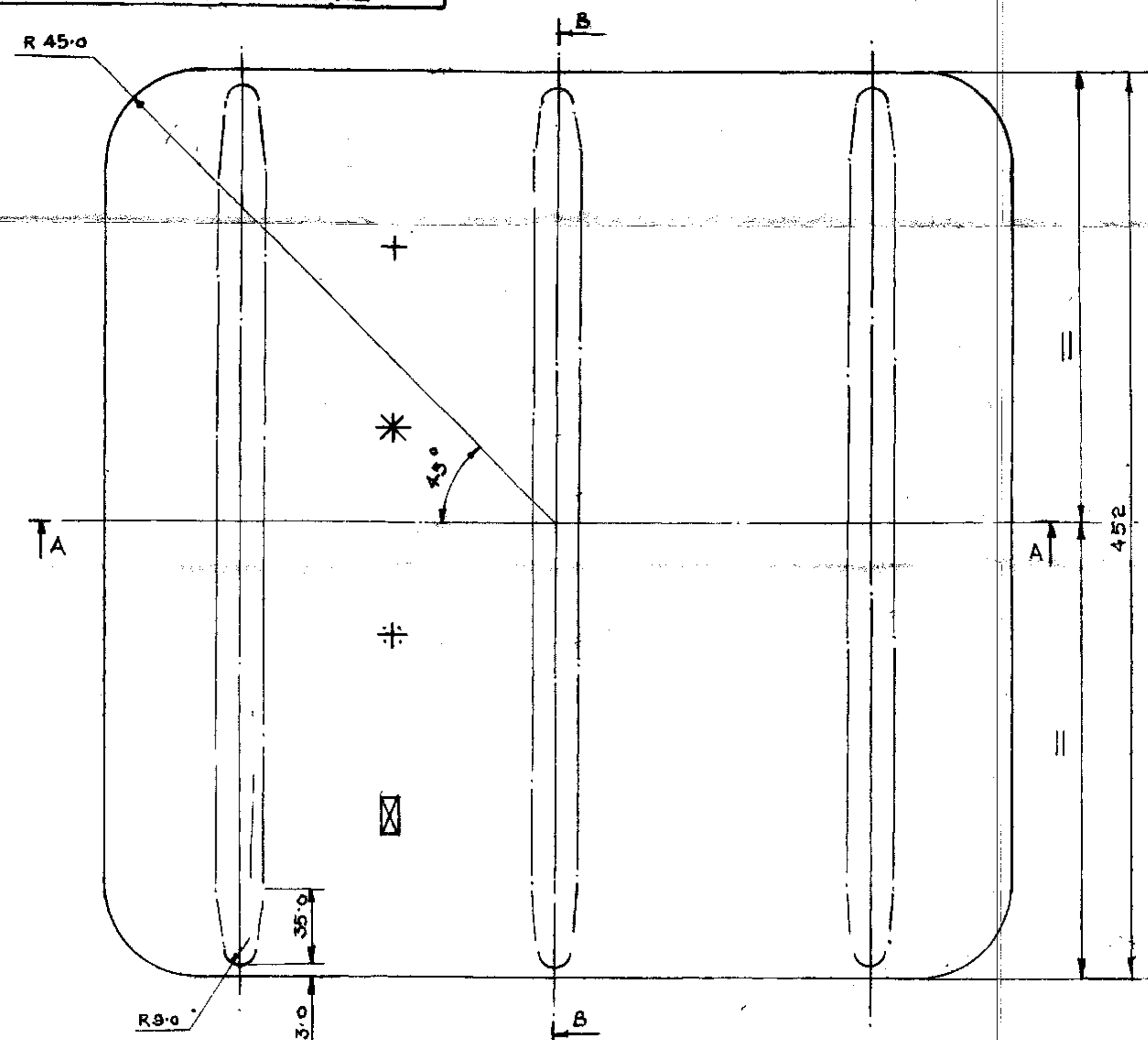
R. NO.	DATE :	AUTHORITY	BRIEF RECORD	ZONE	CD	GO
DRG SEALED (PROV.)			For in Person	CRE(AA)	19 APR. 2000	

DRN. CR. PH. CHD. 5	TRD.	COMP.
CD <i>Patm</i>	PASSED <i>15</i>	SCALE: 1:2
APPROVED <i>06/11</i>	FOR DIRECTOR	EST MASS:
MAIL: STEEL TO IS: 1079 54 34		GAUGE SCHD:
PROTECTIVE FINISH: PHOSPHATED TO IS: 3618, CL. B		DATE: 28-1-94

ASSY DRG. ARDE 9501-03/2
DESIGN AUTHORITY
ARDE PUNE - 411 021
DRG. No.
ARDE 9501-03
DET. No. 9 SHTS. SHT. No.
PART No.
D.S. CAT. No.
A.H.S.P.

PANEL SUPPORT LARGE

ARDE 2039



SECTION A-A

NOTE:

ALL SHARP EDGES & CORNERS ARE TO BE REMOVED

MATL :-

MILD STEEL 1.25 mm THICK SHOULD CONFORM TO ANY ONE OF THE FOLLOWING SPECS.

1. ~~51 TYPE Gd ST. RECYCLED AND REPALED~~
2. ~~51 TYPE Gd ST. RECYCLED AND REPALED TYPE D BEST SURFACE~~

PROTECTIVE TREATMENT :-

PHOSPHATED TO SPEC IN 3610 CLASS A1

MARKING TO BE EMBOSSED IN 12 mm LETTERING



SERIAL No. OF BOX AS APPLICABLE



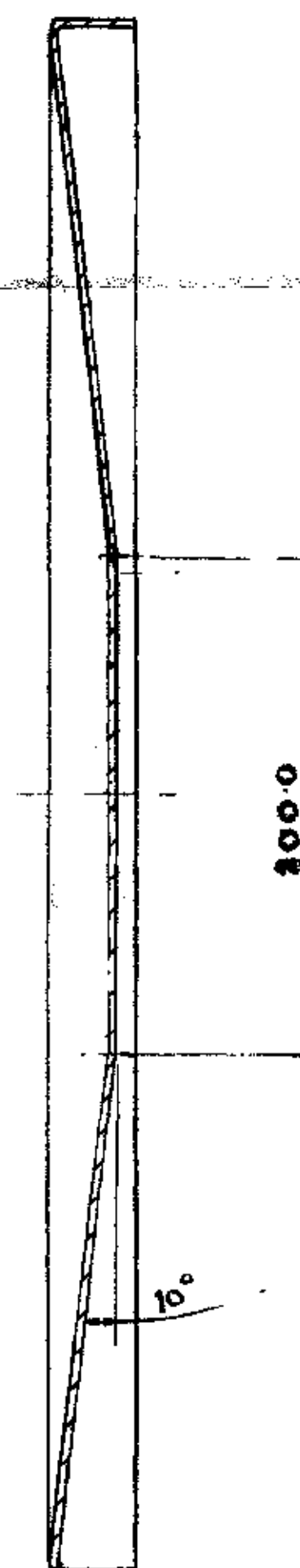
MARK OF BOX AS APPLICABLE



CONTRACTORS INITIALS, RECOGNISED TRADE MARK OR
APPROVED INSPECTION STAMP



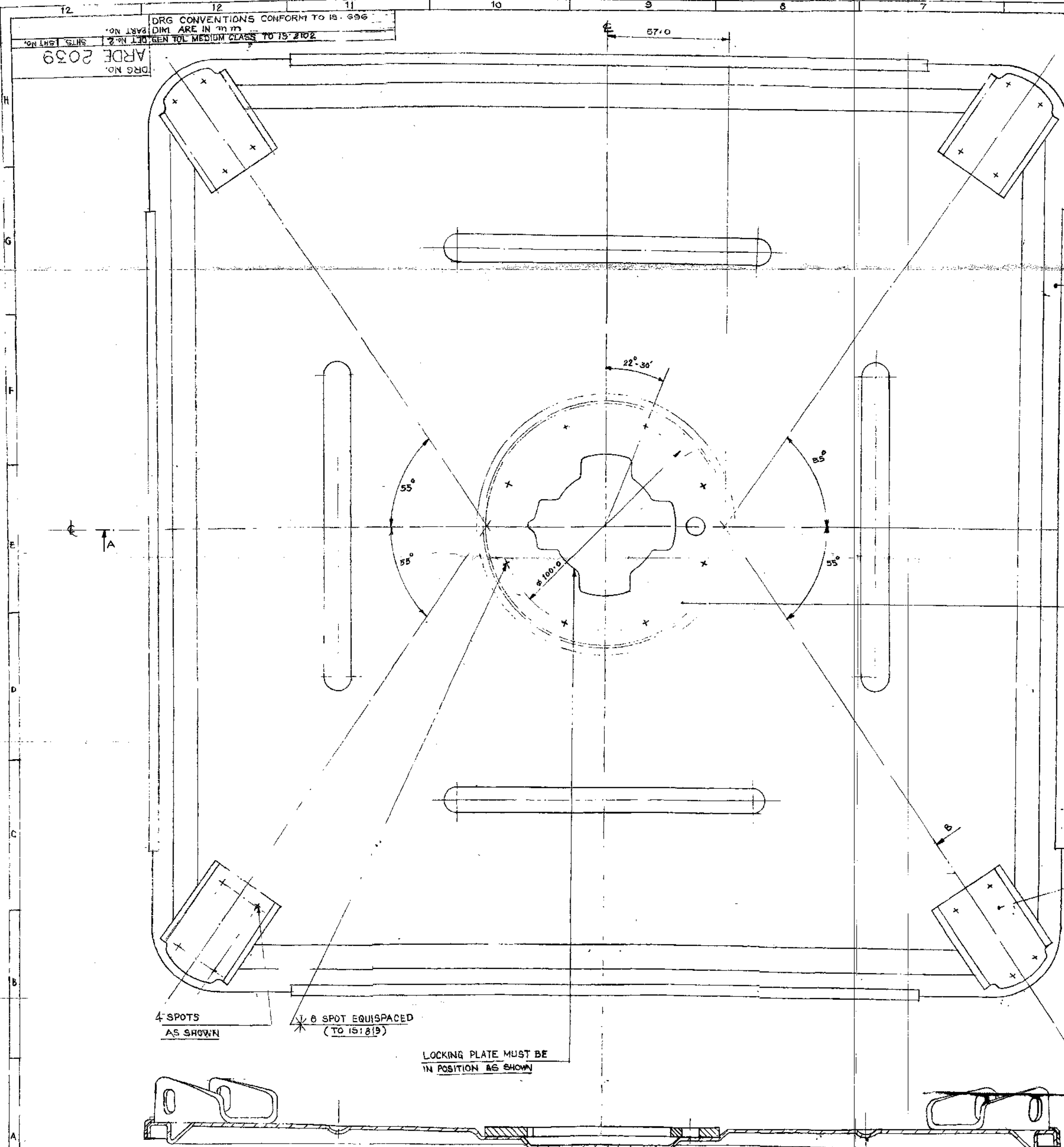
YEAR OF MANUFACTURE



SECTION-B.B

				DRN D.SS		CHD	TRD	SYG	COMP	ASSY DRG ARDE 2039 SHT
				CD		PASSED	SCALE 1/2		DESIGN AUTHORITY	
				MAHES			EST WEIGHT		ARDE PUNE-21	
				APPROVED		FOR DIRECTOR	GAUGE			
				MATH		AS ABOVE	DATE 18-7-85			
R No.	DATE	AUTHORITY	BRIEF RECORD	ZONE	CD	GO				
DRG SEALED							PROTECTIVE FINISH			DRG No.
										ARDE 2039
										DET No 7
										SHTS
										SHT No.
										PART No.
										D.S CAT No.
										AHSP

BOTTOM



LIST OF COMPONENTS					
ITEM No.	NOMENCLATURE	QTY	MATL	DRG No.	DET No. PART No.
1	LID	1		ARDE 2039	1
2	BRACKET	4		ARM1255AB	
3	LOCKING PLATE	4		" " AG	

PROTECTIVE TREATMENT
THE COMPONENTS OF THE SUB ASSY. SHALL BE GIVEN THE FOLLOWING PROTECTIVE TREATMENT.
a) PHOSPHATED TO SPEC IS: 3618 CLASS A-1

NOTE
ALL WELDING JOINTS SHOULD BE AS PER TO SPEC IS: 815

DRN DSS	CHD	TRD	SVG	COMP	ASSY DRG ARDE 2039 SHIT 4
CD	PASSED	SCALE	1:1		DESIGN AUTHORITY
APPROVED	DATE 15.7.66	WGT WEIGHT			ARDE PUNE- 21
DRG SEALED	DATE 15.7.66	GAUGE SCHD			
DATE	AUTHORITY	BRIEF RECORD	ZONE	CD	ISO
				SIGN	MATL
PROTECTIVE FINISH- AS ABOVE					

DRG NO. ARDE 2039
DET No. 2 SHTS 1 SHIT No.
PART No.
D'S CAT No.
AHSP.

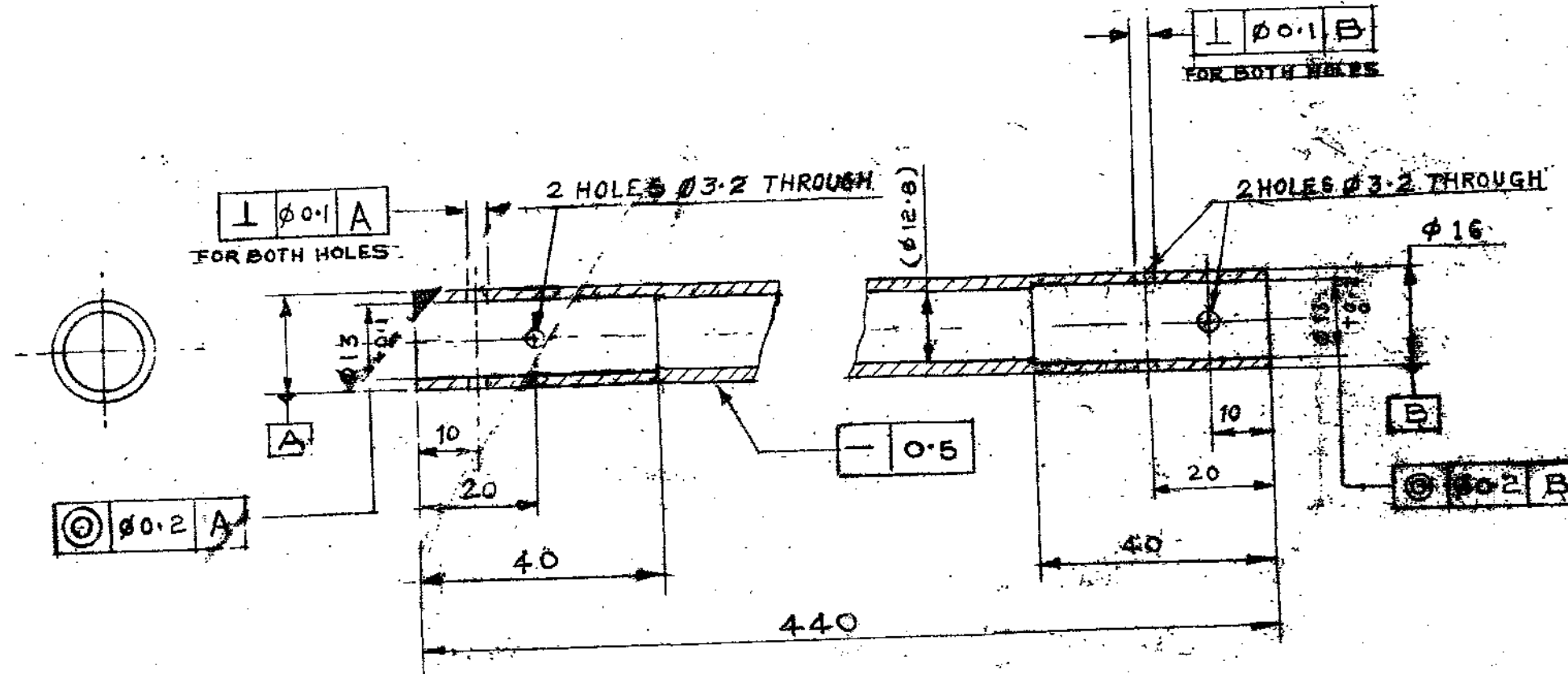
LID (WELDING ASSY)

DRG. No. ARDE 9501-03

DRAWING CONVENTIONS CONFORM TO IS : 669
DIMNS ARE IN m.m. UNLESS OTHERWISE STATED
GEN. TOL. MEDIUM/COARSE/FINE CLASS TO IS : 2102

NOTE:

ALL SHARP EDGES & BURRS ARE TO BE REMOVED



DRG. No. ARDE 9501-03		DESIGN AUTHORITY	
ARDE PUNE - 411 021		DATE: 21-3-94	
SCALE: 1:1		EST. MASS:	
Gauge Schd:		DATE: 21-3-94	
MATERIAL: AL. ALLOY TUBE TO IS: 738 WITH TENSILE STRENGTH OF 200 MPa (MIN)		PROTECTIVE FINISH: ANODISED TO IS: 1868	
DRG. No. ARDE 9501-03		DET. No. 20	
PART No.		D.S. CAT. No.	
A.H.S.P.			

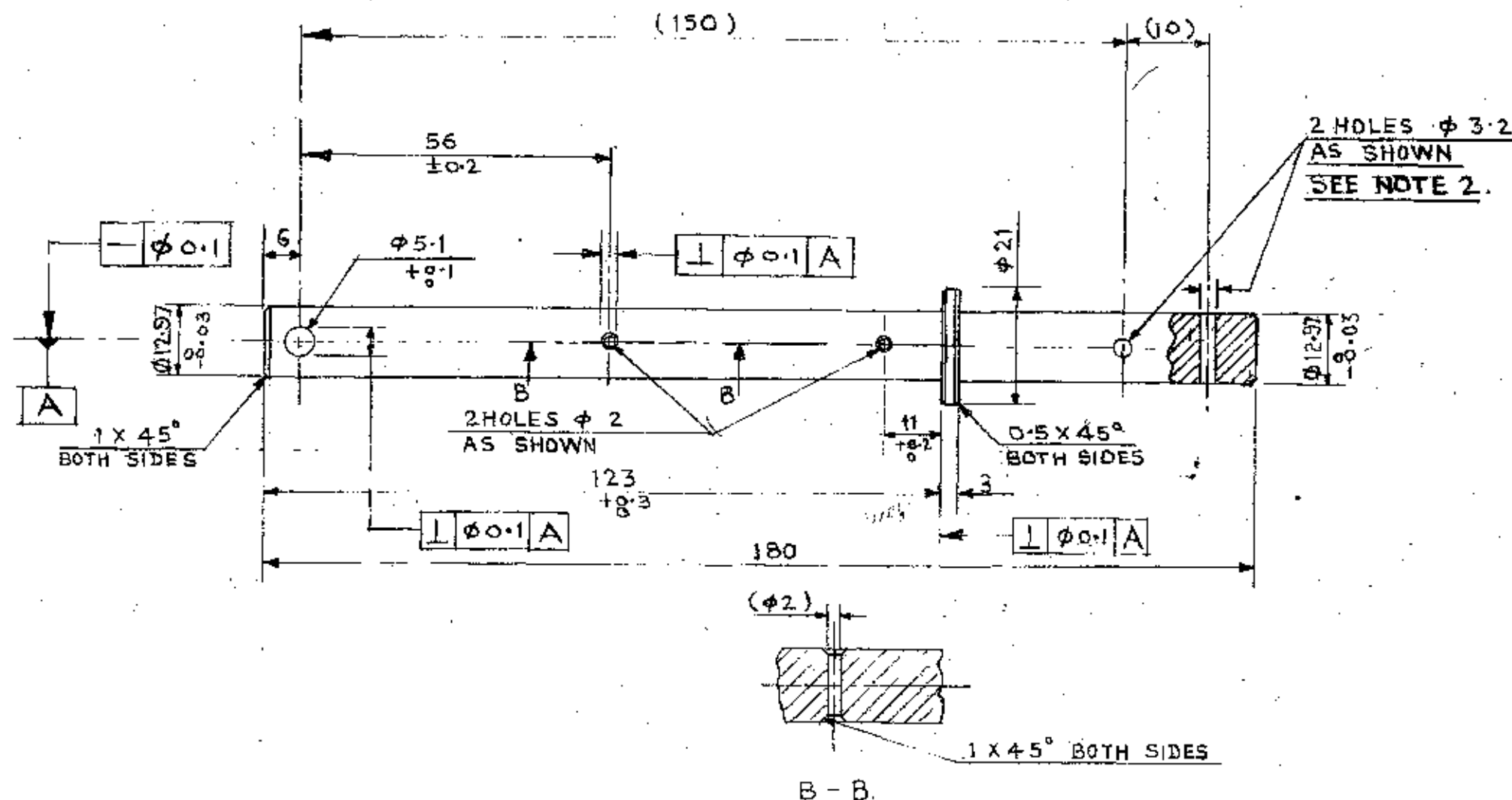
ARMING TUBE

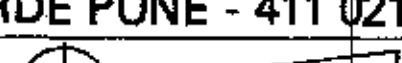
ARDE 9501-03

DRAWING CONVENTIONS CONFORM TO IS : 8000
DIMNS ARE IN m.m. UNLESS OTHERWISE STATED
GEN. TOL. MEDIUM/COARSE/FINE CLASS TO IS : 2102

NOTES:—

- 1) ALL SHARP EDGES & BURRS ARE TO BE REMOVED.
- 2) 2 HOLE $\phi 3.2$ TO BE DRILLED IN CONJUNCTION WITH HOLES OF ARMING TUBE (DRG NO ARDE 9501-03/20).



									DRN. DESHMUKH	CHD.	TRD.	COMP.	ASSY DRG. ARDE 9501-03/15
									CD	PASSED	SCALE: 1:1	EST MASS:	DESIGN AUTHORITY
									APPROVED	FOR DIRECTOR	GAUGE SCHD:		ARDE PUNE - 411 021
									(R. PERUMAL)		DATE: 29 - 10 - 96		
R. NO.	DATE:	AUTHORITY	BRIEF RECORD	ZONE	CD	GO			MATL: STAINLESS STEEL TO IS: 6603 WITH				
						SIGN			CY CONTENT 15 % MIN				
DRG SEALED (PROV.)			See in hand CRE (AA)		9 APR 2000		PROTECTIVE FINISH:				DRG No.		

FORK SPINDLE

DRG. No.
ARDE 9501-03

DET. No. 17 SHTS. SHT. No.

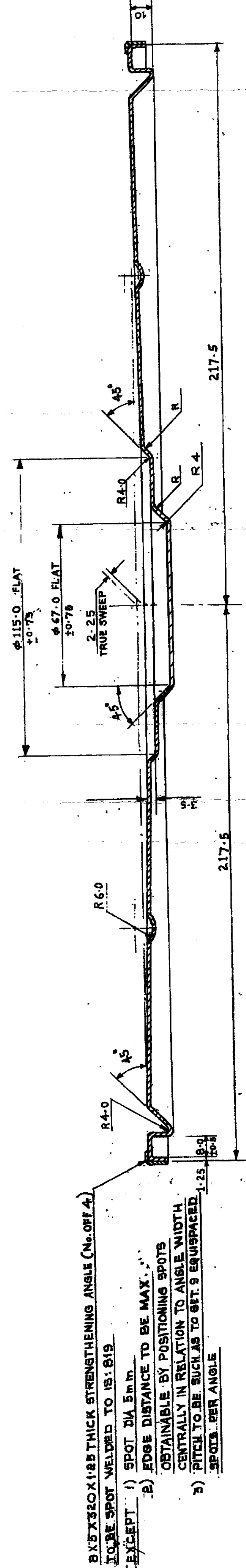
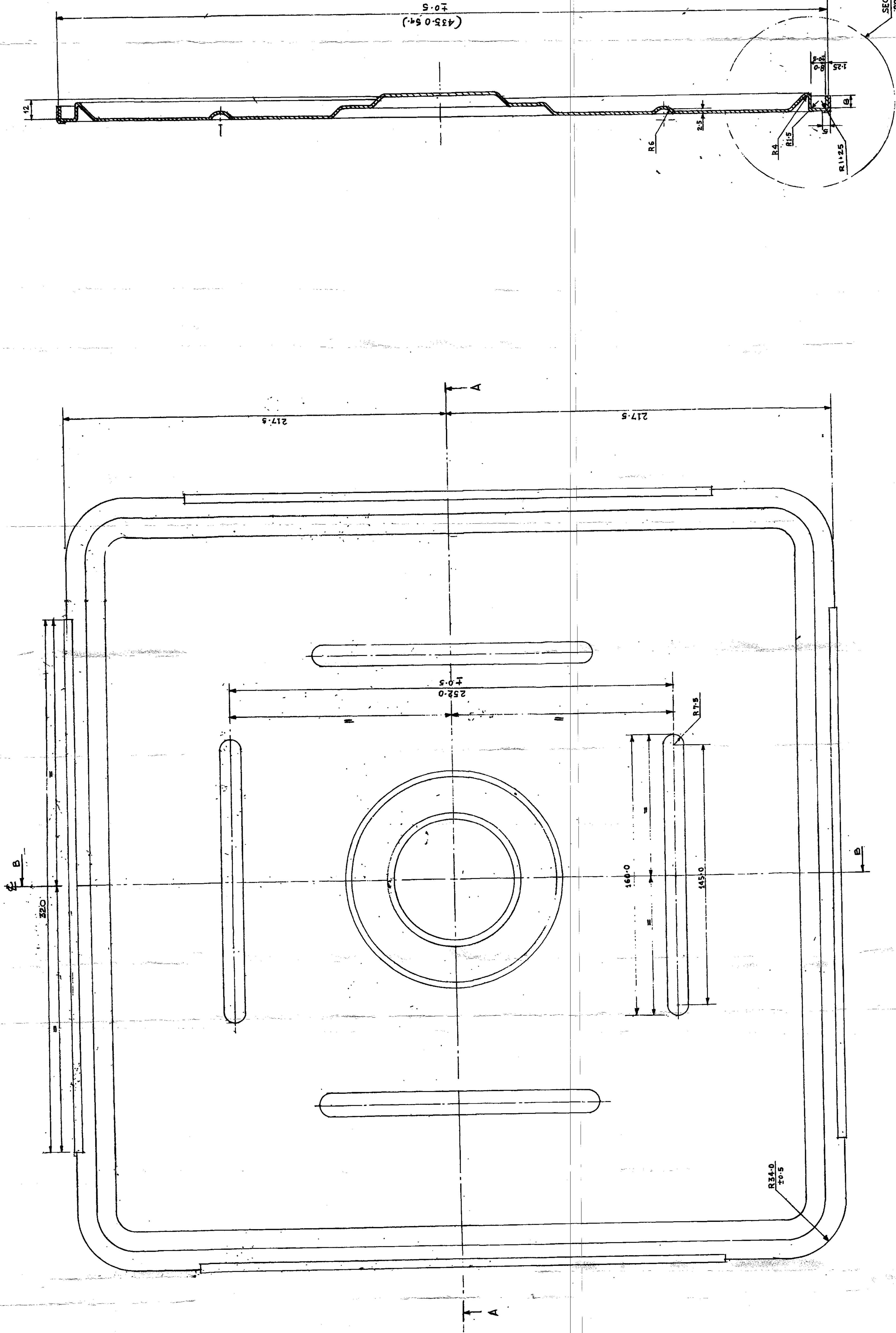
PART No.

D.S.CAT.No.

A.H.S.P.

NOTE
ALL SHARP EDGES AND BURRS ARE TO BE REMOVED.
MATERIAL
MILD STEEL 1/25 IN THICK SHOULD CONFORM TO ANY ONE OF THE FOLLOWING SPEC.
18-1079-63 GA. ST 34 HOT ROLLED AND ANNEALED.
18-513-63 COLD ROLLED AND ANNEALED TYPE 'D' BEST SURFACE.

PROTECTIVE TREATMENT
PHOSPHATED TO SPEC IN 3619 CLASS 'A'.



SECTION A-A
SWEEP APPLIED ON ALL LONGITUDINAL SECTIONS

SECTION B-B

SECTION RADIALLY
CONSTANT

DRN BY: JCH	APPROVED: [Signature]	COMP. BY: [Signature]	DATE: 10-11-83	ARDE PUNE - 21
DESIGN AUTHORITY	TEST AUTHORITY	TEST METHOD	TEST DATE	TEST RESULT
APPROVED: [Signature]	APPROVED: [Signature]	APPROVED: [Signature]	APPROVED: [Signature]	APPROVED: [Signature]
DATE: 10-11-83	DATE: 10-11-83	DATE: 10-11-83	DATE: 10-11-83	DATE: 10-11-83
ZONE: 10	ZONE: 10	ZONE: 10	ZONE: 10	ZONE: 10
RECORD: [Signature]	RECORD: [Signature]	RECORD: [Signature]	RECORD: [Signature]	RECORD: [Signature]
DATE: 10-11-83	DATE: 10-11-83	DATE: 10-11-83	DATE: 10-11-83	DATE: 10-11-83
PROTECTIVE FINISH: AS ABOVE	PROTECTIVE FINISH: AS ABOVE	PROTECTIVE FINISH: AS ABOVE	PROTECTIVE FINISH: AS ABOVE	PROTECTIVE FINISH: AS ABOVE
DRG No: ARDE 2039	SET No: 3	SHTS: 3	DRG No: ARDE 2039	SET No: 3
PART No	PART No	PART No	PART No	PART No
TS CAT No	TS CAT No	TS CAT No	TS CAT No	TS CAT No
ANSP	ANSP	ANSP	ANSP	ANSP

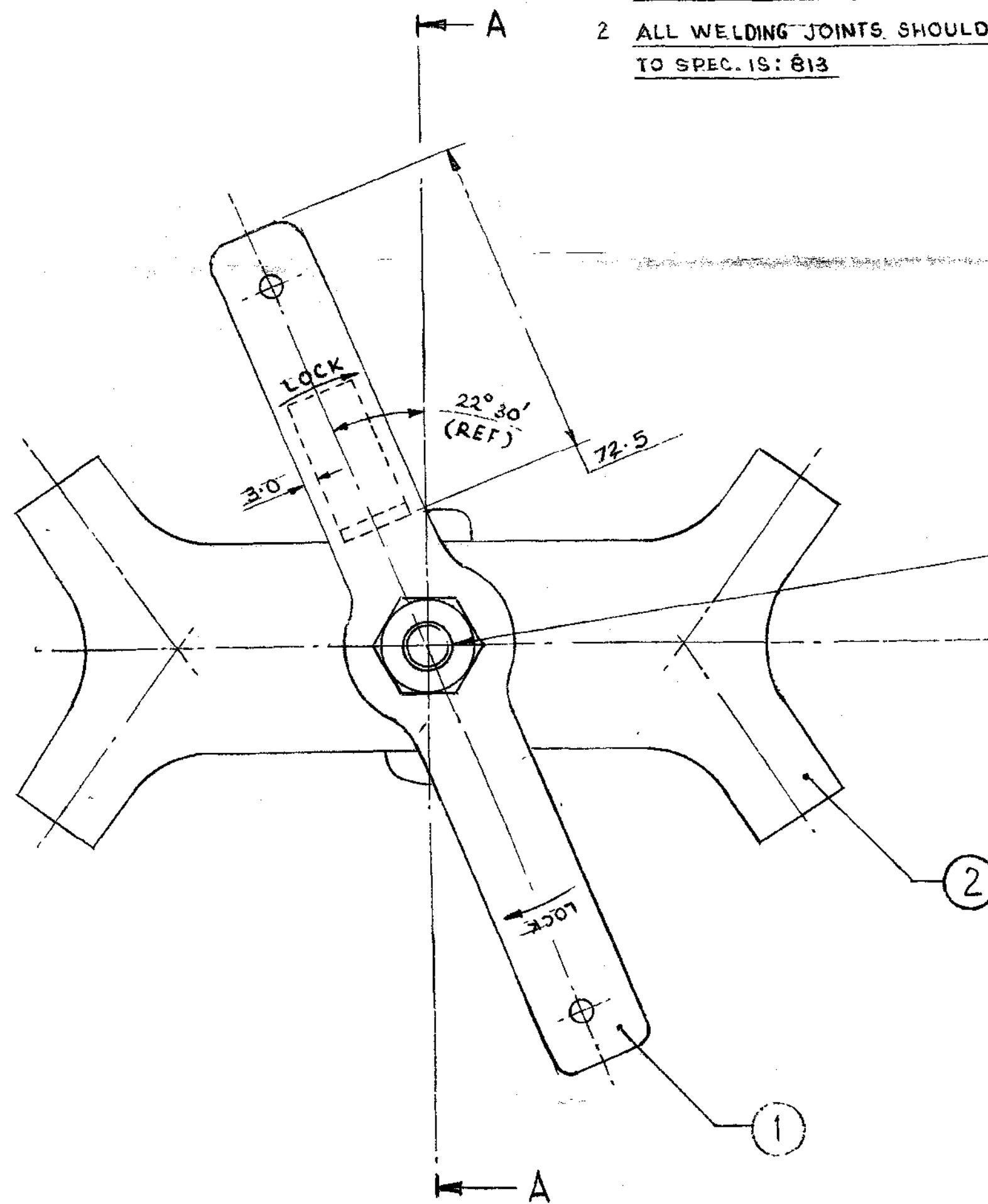
LID

DRG CONVENTIONS CONFORM TO IS: 612	
DIM ARE IN MM	
GEN TOL MEDIUM CLASS TO IS: 2102	
DRG NO	ARDE 2039
DEFINITION	GEN TOL MEDIUM CLASS TO IS: 2102
DATE	15-7-86

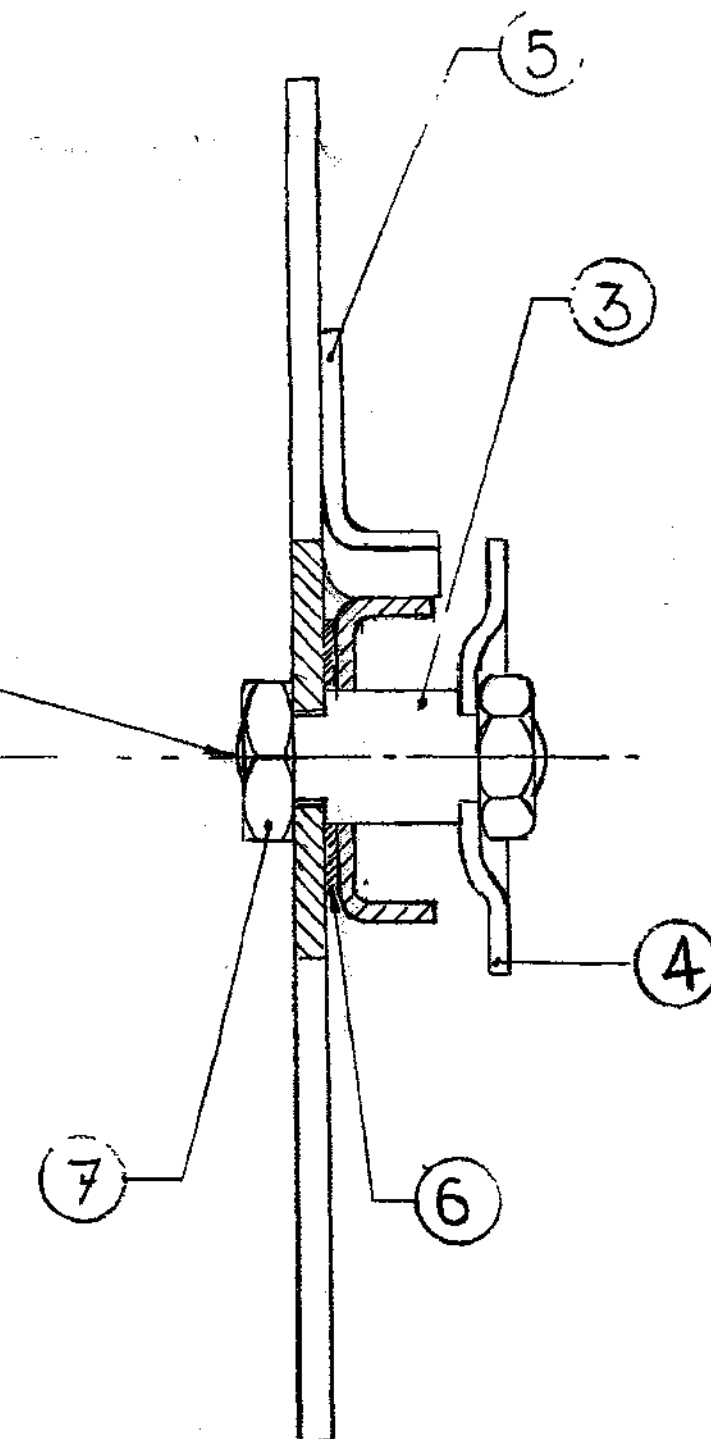
LIST OF COMPONENTS						
ITEM NO	NOMENCLATURE	NO. OF	DRG. NO	DET. NO	MATL	PART NO
1	RELEASE BAR	1	ARM 1253 (B8)			
2	PRESSURE PLATE	1	ARDE 2039	10		
3	SPIGOT	1	ARM 1253 A-10			
4	BASE PLATE	1	ARDE 2039	19		
5	STOP	1	ARM 1253 A-12			
6	WASHER	1	ARM 1253 A-13			
7	HEX. LOCK NUT	2	IND. (PLATED)			
	M12 X 1.25 TO SPEC IS: 1364					

NOTES:-

- ITEMS 1 & 5 SPOT WELDED IN POSITION & PROTECTIVE TREATMENT GIVEN AFTER WELDING.
- ALL WELDING JOINTS SHOULD BE AS PER TO SPEC. IS: 813



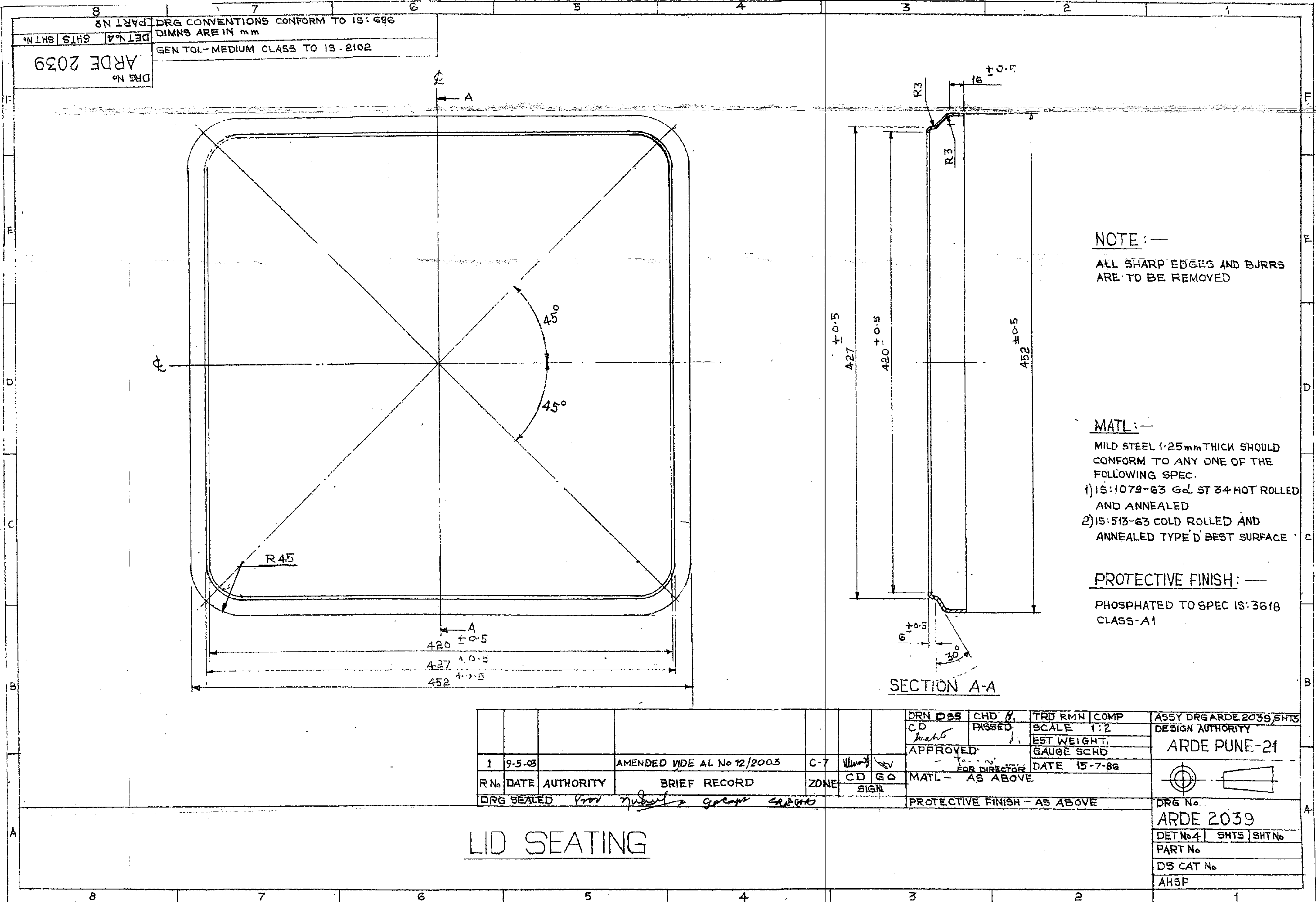
LOCK BY MEANS OF 3 STABS EACH END.



SECTION 'AA'

DRG. DES.		CHKD. DES.		TRD. DES.		COMP.		ASSY. DRG. ARDE 2039, SH. 4	
ED. DES.		PASSED		SCALE - 1:1		GAUGE SCHD.		DESIGN AUTHORITY	
APPROVED		FOR DIRECTOR		EST. WEIGHT		DATE - 15-7-86		ARDE PUNE-21	
R. NO.		DATE		AUTHORITY		BRIEF RECORD		ZONE	
CD		GO		SIGN		MATERIAL		PROTECTIVE FINISH: PHOSPHATED TO IS: 3618, CLASS A	
SEAL		DATE		AUTHORITY		BRIEF RECORD		ZONE	
CD		GO		SIGN		MATERIAL		PROTECTIVE FINISH: PHOSPHATED TO IS: 3618, CLASS A	
ARDE 2039		DET. NO. 9		SH. NO. 4		PART. NO.		DS. CAT. NO.	
AHSP									

PRESSURE PLATE-SUB ASSY.



DRG CONVENTIONS CONFORM TO IS: 696
DIMNS ARE IN mm
GEN TOL-MEDIUM CLASS TO IS-2102
DRG No. ARDE 2039
DET No. 4
SHTS 5

NOTE:—
ALL SHARP EDGES AND BURRS
ARE TO BE REMOVED

MATL:—
MILD STEEL 1.25mm THICK SHOULD
CONFORM TO ANY ONE OF THE
FOLLOWING SPEC.
1) IS:1079-63 Gd. ST 34 HOT ROLLED
AND ANNEALED
2) IS:513-63 COLD ROLLED AND
ANNEALED TYPE 'D' BEST SURFACE

PROTECTIVE FINISH:—
PHOSPHATED TO SPEC IS:3618
CLASS-A1

SECTION A-A

DRN D65				CHD 8		TRD RMN		COMP		ASSY DRG ARDE 2039, SHTS	
CD				PASSED		SCALE 1:2		EST WEIGHT		DESIGN AUTHORITY	
APPROVED				FOR DIRECTOR		GAUGE SCD		DATE 15-7-88		ARDE PUNE-21	
1				9-5-03		AMENDED VIDE AL No 12/2003		C-7		DRG No.	
R No				DATE		AUTHORITY		BRIEF RECORD		DET No 4	
DRG SEALED				SIGN		CD		GO		SHTS	
PROTECTIVE FINISH - AS ABOVE				SIGN		MATERIAL - AS ABOVE		FOR DIRECTOR		SHT No	
LID SEATING				SIGN		MATERIAL - AS ABOVE		FOR DIRECTOR		PART No	
										DS CAT No	
										AHSP	

NOTE: - ALL SHARP EDGES & BURRS ARE TO BE REMOVED
MATERIAL:
MILD STEEL 1/8" THICK TO SPEC. 15: 1079- GA
ST 34. HOT ROLLED AND ANNEALED.

AT DIE CONDITION
FULL DEPTH TO BE
NEAR HOLES

55°

55°

55°

55°

21.00
±1.25

R 21.00
±1.25

46.00
±0.75

58.00
±0.25

21.00
±1.25

57.00
±0.25

57.00
±0.25

20.00
±0.05

R 21.00
±1.25

0.015
±0.25

Technical drawing of a U-shaped profile. The vertical dimension is 410 ± 0.8 . The horizontal dimension is 11.0 ± 0.25 . The profile has a central vertical section and two side flanges. The flanges have a thickness of 1.0 ± 0.1 and a height of 1.0 ± 0.1 . The central section has a height of 1.0 ± 0.1 and a width of 1.0 ± 0.1 . The profile is shown in a cross-sectional view with hatching on the flanges.

PART SECTION 'A-A'

PROTECTIVE FINISH:-

G) PHOSPHATED TO SPEC. 15:3618 CLASS A1.

Technical drawing of a mechanical part. The drawing shows a rectangular block with a circular hole. The hole is labeled with the dimension $\phi 7.0$ (8 HOLES). The block has a width of 5.25 and a height of 0.5. The drawing is oriented diagonally.

SCRAP VIEW IN
DIRECTION OF ARROW 'X'

[illegible]

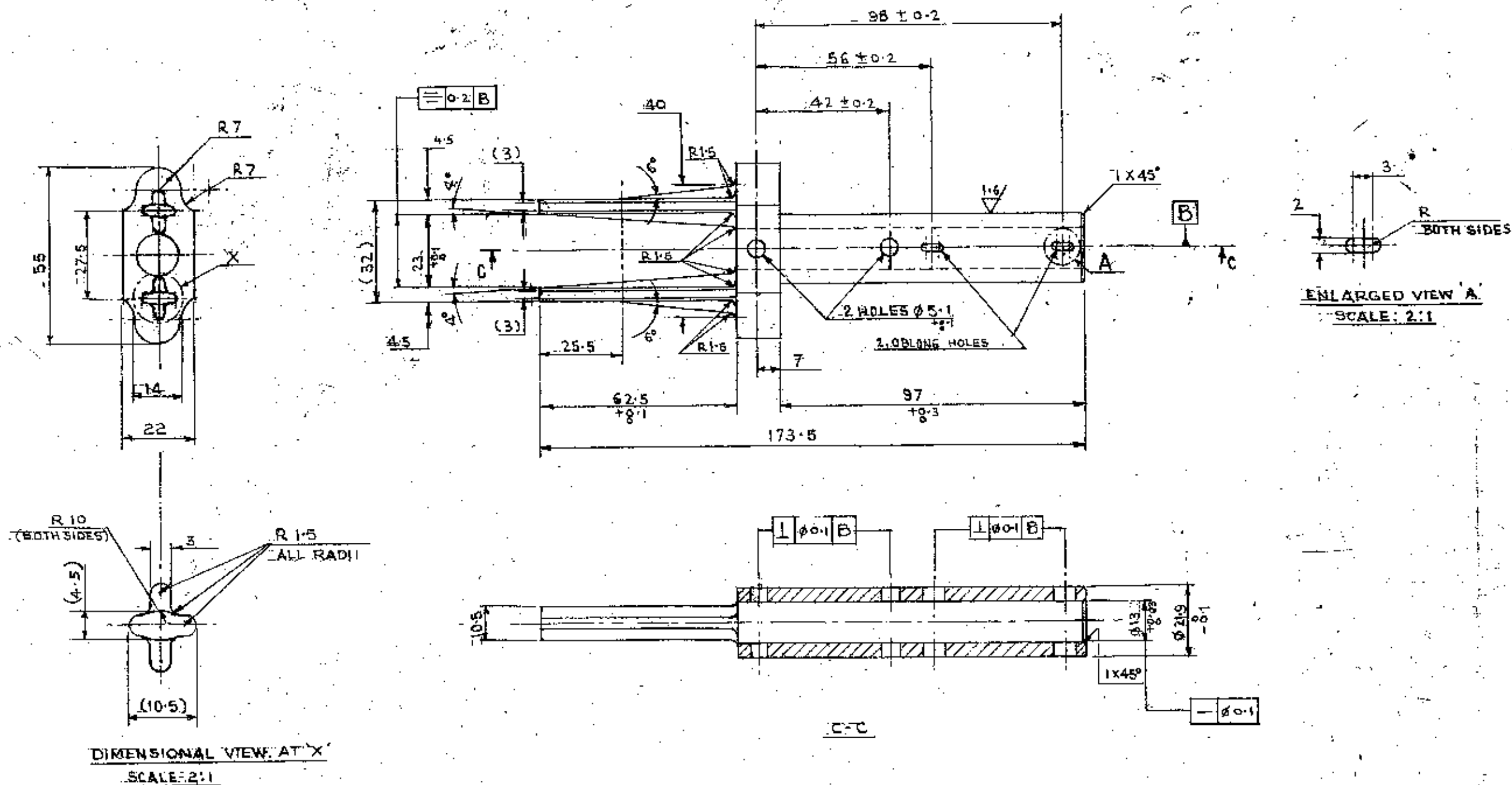
PRESSURE PLATE

DRG No.		
ARDE 2039		
DET No. 10	SHTS	SHT No.
PART No.		
D.S CAT No.		
AHSP		

DRAWING CONVENTIONS CONFORM TO IS: 1000	
DIMENSIONS ARE IN mm. UNLESS OTHERWISE STATED	
GEN. TOL. MEDIUM/CLASS TO IS: 2102	
DRG. No.	ARDE 9501-03

NOTES -

1. ALL SHARP EDGES & BURRS ARE TO BE REMOVED.
2. TO BE PRESSURE DIE CAST OR MACHINED.



MATL. AL. ALLOY TO IS: 733 WITH TENSILE STRENGTH OF 200 MPa (MIN) OR ALUMINIUM ALLOY 4-600 CONDITION M OR AL. ALLOY 4420 CONDITION M TO IS: 617-1975

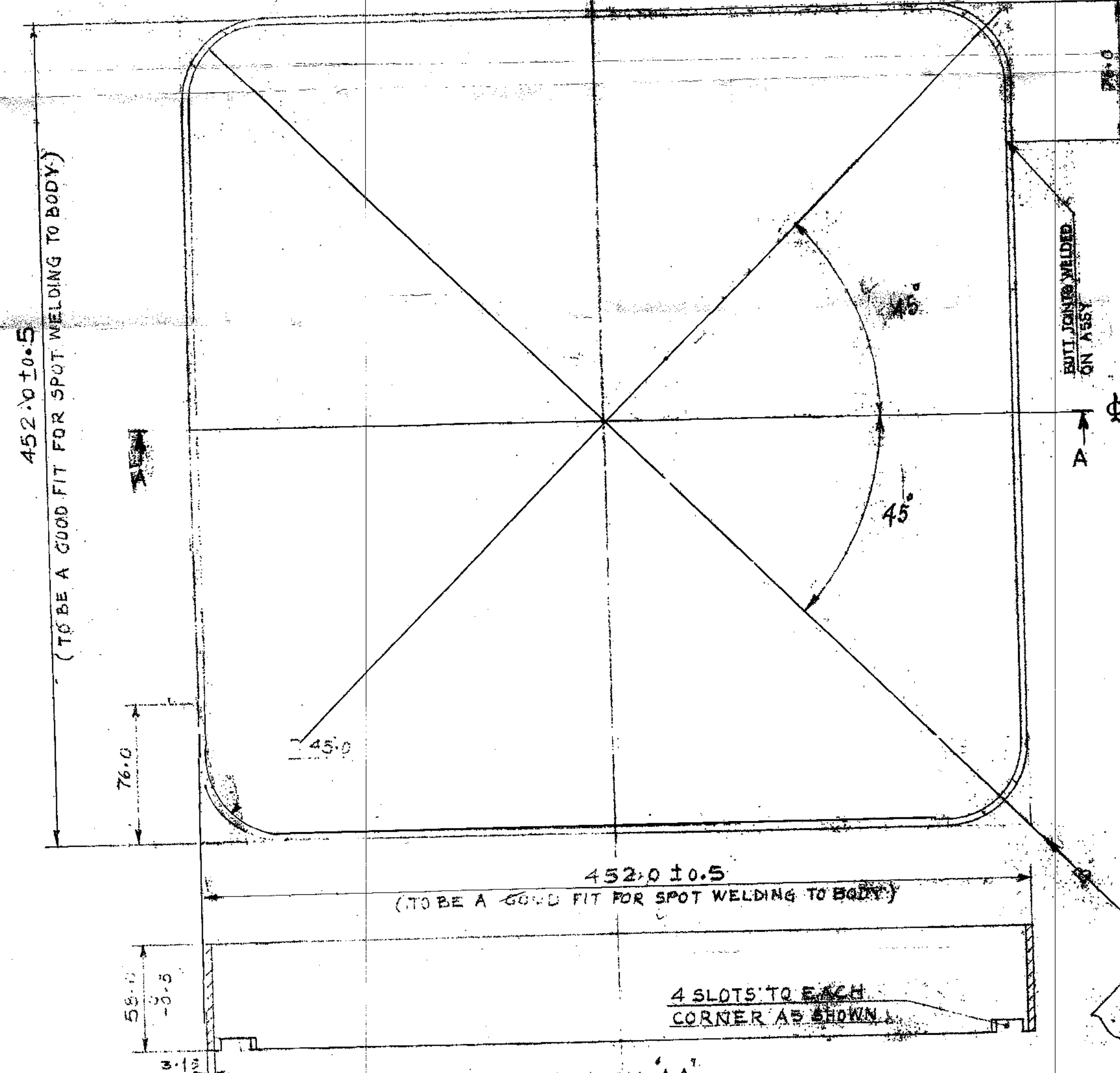
DRN. 1000	CHD. 1000	TRD. 1000	COMP. 1000	DESIGN AUTHORITY: ARDE PUNE-411 001
CD 1000	PASSED 1000	SCALE: 1:1	EST. MASS:	
APPROVED 1000	DATE: 1-4-96	GALGE SCHD:		
R. NO. 1000	DATE: 19 APR 2000	MATL: AS ABOVE		
DRG SEALED (PROV.)	BRIEF RECORD	ZONE	CD GO	PROTECTIVE FINISH:

ARMING FORK

ARDE 9501-03

ALL CONVENTIONS CONFORM TO 15-696
DIMENSIONS ARE IN MM
GEN. TOL. MEDIUM CLASS TO 15-2102

ARDE 2039

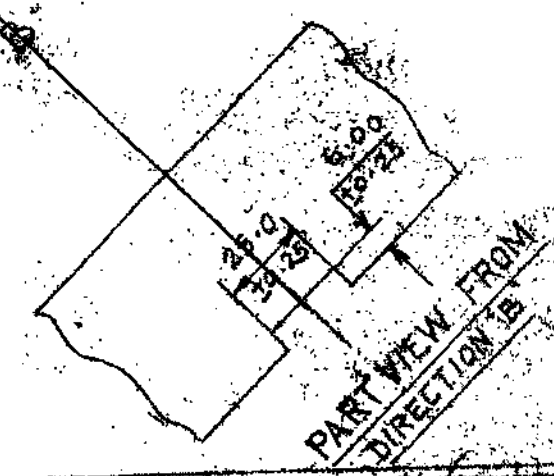


MATERIAL
MILD STEEL 3.15 THICK TO SPEC 15-1079-6d
ST. 52 HOT ROLLED & ANNEALED

PROTECTIVE TREATMENT
A. DISPHATED TO SPEC 15-3618 CLASS A1

NOTE 1) ALL SHARP EDGES & BURRS ARE TO BE REMOVED
2) ALL WELDING JOINTS SHOULD BE AS PER TO SPEC 15-613

WELDING JOINTS WELDED
ON ASSY



MAY BE MADE IN ONE PIECE
IF DESIRED

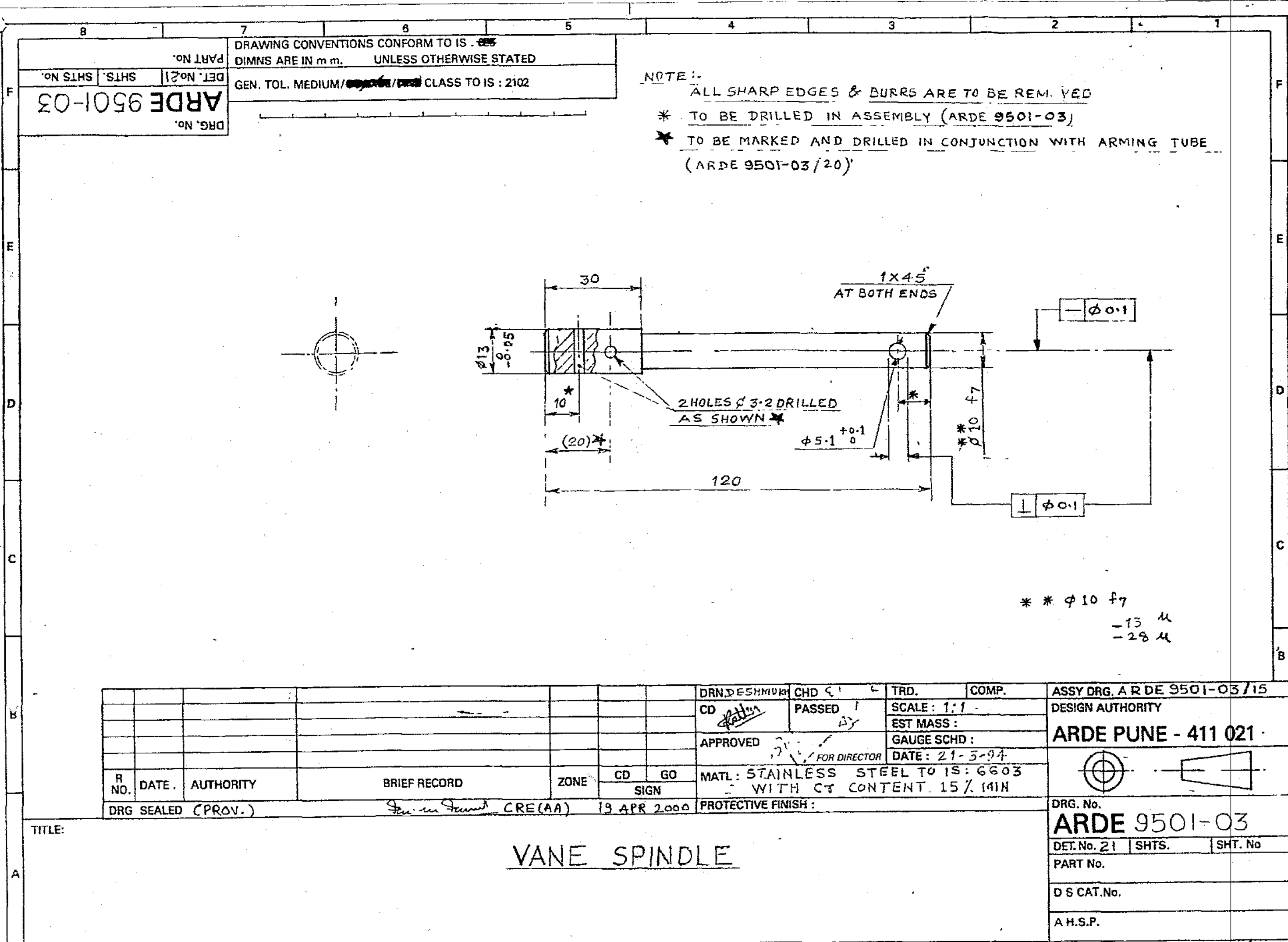
SECTION 'AA'			
DATE	AUTHORITY	BRIDGE	ZONE
DRC SEAL: <i>[Signature]</i>		C.D. G.D. MATL. AS ABOVE	
DRC SEAL: <i>[Signature]</i>		PROTECTIVE FINISH: AS ABOVE	

DRN	CHKD	TRD	COMP
C.D.	PASSED	SCALE: 1:2	EST. WEIGHT: 1.2
APPROVED		Gauge 5CHD	DATE: 15-7-86

ASSY. DRG	DESIGN AUTHORITY
ARDE 2039	ARDE, RUNE/21

ORG	PART No.	D.S. CAT. No.	A.H. SP.
ARDE 2039			

RIM



NOTE:-
ALL SHARP EDGES & BURRS ARE TO BE REM. VED
* TO BE DRILLED IN ASSEMBLY (ARDE 9501-03)
* TO BE MARKED AND DRILLED IN CONJUNCTION WITH ARMING TUBE (ARDE 9501-03/20)

DRAWING CONVENTIONS CONFORM TO IS . 885	
DIMNS ARE IN m m. UNLESS OTHERWISE STATED	
GEN. TOL. MEDIUM/ 1000 / 1000 CLASS TO IS : 2102	
DRG. No.	DET. No. 21
ON SHS	SHS
ARDE 9501-03	

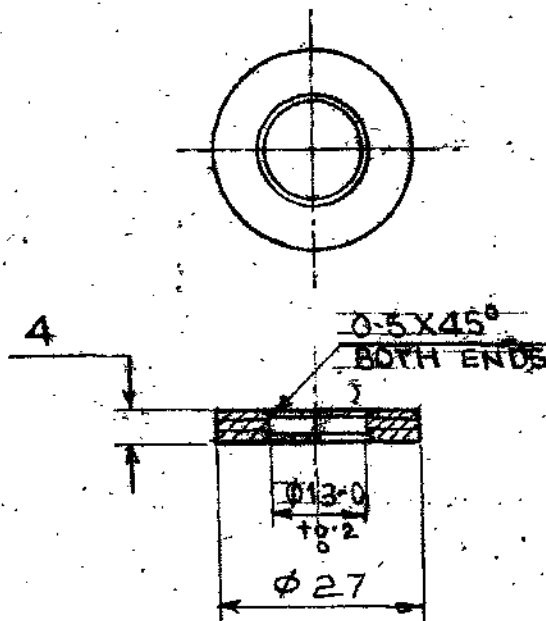
DRG. No.		ASSY DRG. A R DE 9501-03 / 15	
DET. No. 21		SHTS.	
PART No.		SHT. No	
D S CAT. No.			
A H.S.P.			
TITLE:		VANE SPINDLE	
DRG. No.		ARDE 9501-03	
DET. No. 21		SHTS.	
PART No.		SHT. No	
D S CAT. No.			
A H.S.P.			
DRG. No.		ARDE 9501-03	
DET. No. 21		SHTS.	
PART No.		SHT. No	
D S CAT. No.			
A H.S.P.			

DRAWING CONVENTIONS CONFORM TO IS
DIMNS ARE IN m.m. UNLESS OTHERWISE STATED

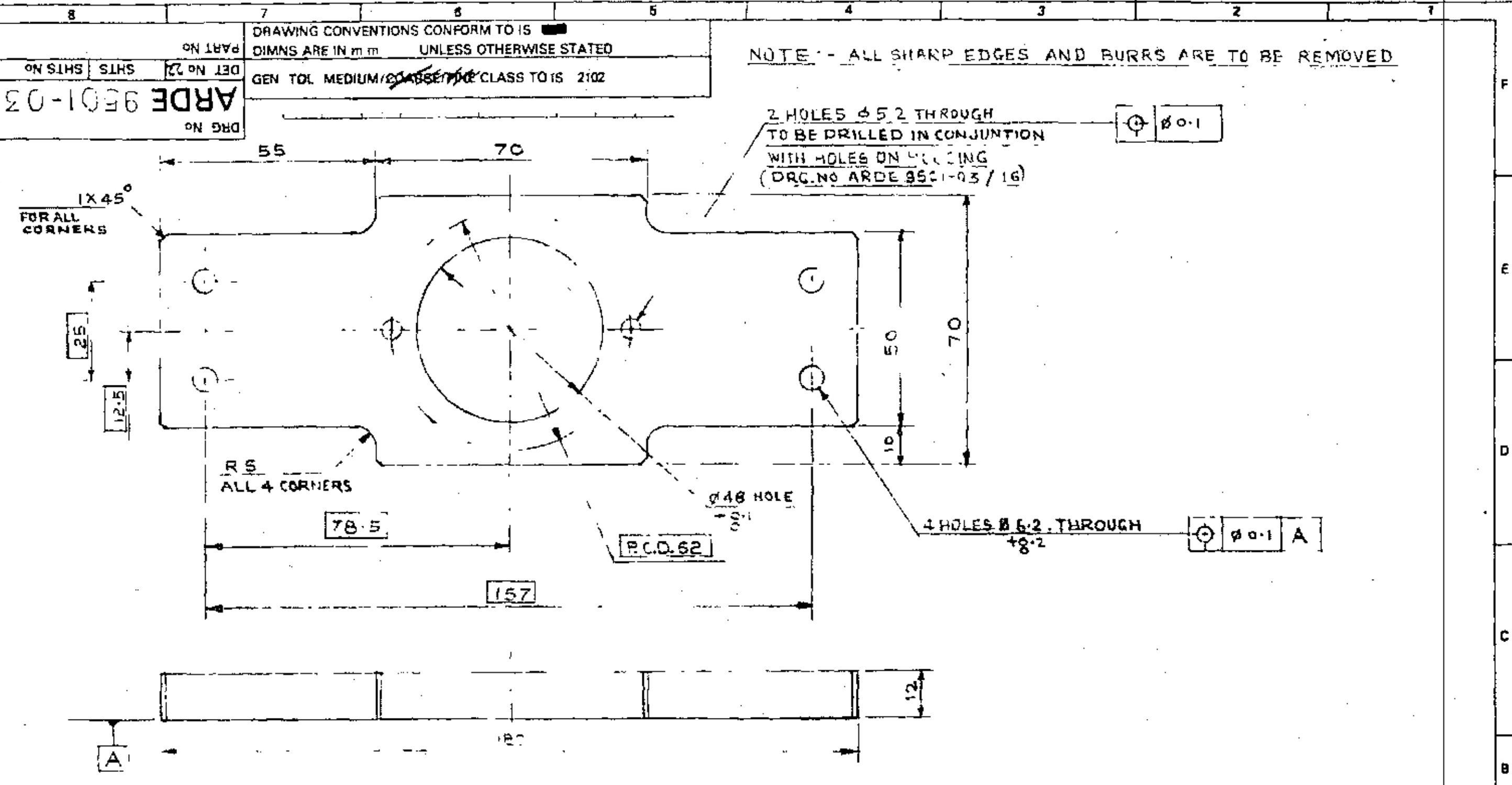
GEN. TOL. MEDIUM / COARSE / FINE CLASS

DRG. No.
ARDE 9501-03
DET. No. 19 SHTS. 6
ON SHTS

NOTE: ALL FLASHES AND EXCESS MATL TO BE REMOVED.



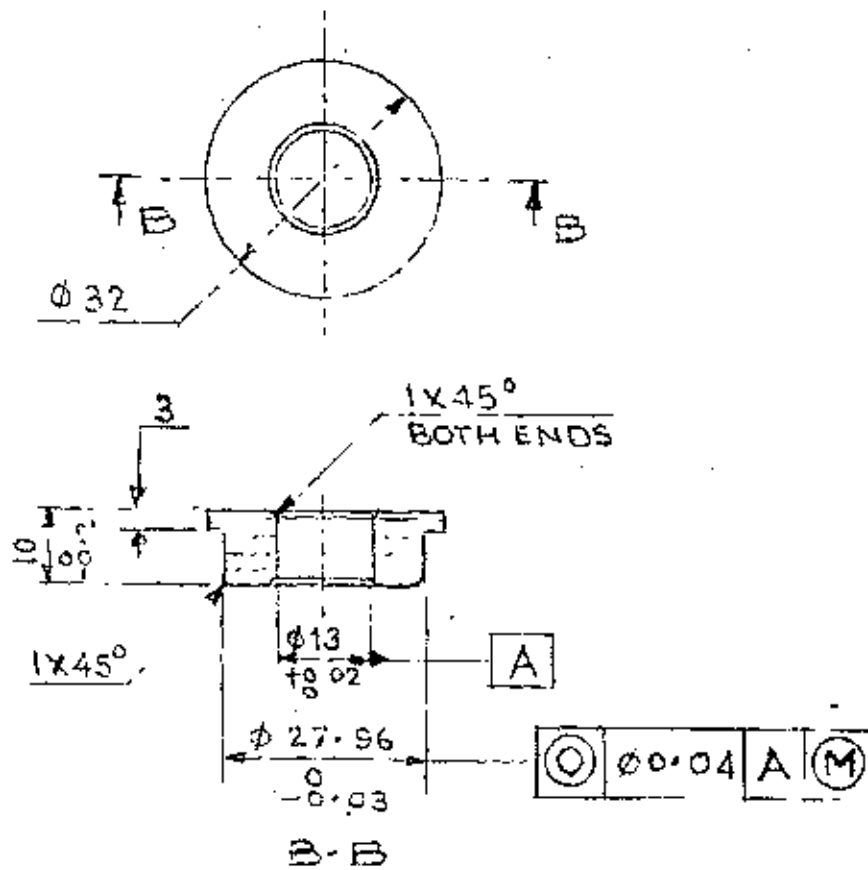
1	23-10-01		AMENDED VIDE AL. NO. 26/2001			
R. NO.	DATE :	AUTHORITY	BRIEF RECORD	ZONE	CD	GO
DRG. SEALED (X PROV.)			CRE (AA)	19 APR. 2000		
DRN. 1000000000	CHD.	TRD.	COMP.	ASSY. DRG. ARDE 9501-03/15		
CD	PASSED	SCALE : 1:1		DESIGN AUTHORITY		
APPROVED		EST. MASS:		ARDE PUNE-411 021		
FOR DIRECTOR		GAUGE SCHD :				
		DATE : 29-10-96				
MATL: "PERFECTO ASTM D1710-96 TYPE I / TYPE II, GRADE I, CLASS A"				DRG. No.		
PROTECTIVE FINISH :				ARDE 9501-03		
TITLE :				DET. No. 19 SHTS. SHT. No.		
BEARING WASHER				PART No.		
				D.S.CAT.No.		
				A.H.S.P.		



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TITLE			BOTTOM PLATE			ARDE 9501-03 DET. No. 22 SHYS SHT. No. PART No. D S CAT No. A.H.S.P.		
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1		2		3		4	
PART No. 184V				DRAWING CONVENTIONS CONFORM TO IS			
DET. No. 26				DIMNS ARE IN mm UNLESS OTHERWISE STATED			
ON SHS				GEN TOL. MEDIUM / COARSE / FINE CLASS TO IS 2102			
ARDE 9501-03							
DRG. No.							



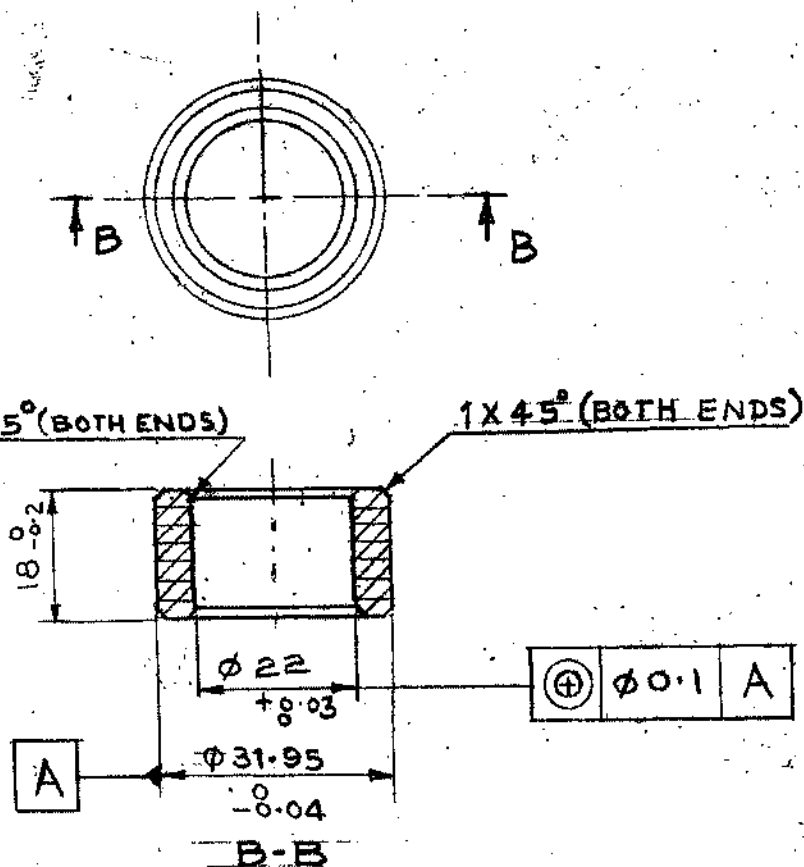
I		23-10-01		AMENDED VIDE AL NO. 26/2001			
R NO.	DATE:	AUTHORITY	BRIEF RECORD		ZONE	CD	GO
						SIGN	
DRG SEALED (PROV.)		See in Stamp		CRE(AA)		19 APR 2000	
DRN. 34520000	CHD.	TRD	COMP	ASSY DRG. ARDE 9501-03 / 15			
CD	PASSED	SCALE	1:1	DESIGN AUTHORITY			
APPROVED		EST. MASS.		ARDE PUNE-411 021			
FOR DIRECTOR		GAUGE SCHO.					
DATE 28-10-96							
MATERIAL: "PTFE TO ASTM D 1710-96 TYPE I / TYPE II, GRADE 1, CLASS A"							
PROTECTIVE FINISH:				DRG No			
TITLE				ARDE 9501-03			
				DET No. 26		SHTS.	
				PART No.		SHT. No.	
				D.S CAT.No			
				A H S P.			

FORK BEARING REAR

1	2	3	4
PART No.		DRAWING CONVENTIONS CONFORM TO IS 1000	
DET. No. 24		DIMNS ARE IN mm. UNLESS OTHERWISE STATED	
SHTS. No.		GEN. TOL. MEDIUM / COMSE/PINE CLASS TO IS 2102	
DRG. No.			

ARDE 9501-03

NOTE:- ALL FLASHES & EXCESS MATERIAL TO BE REMOVED.



1	23-10-01	AMENDED VIDE AL.NO. 26/2001		CD	GO
R. NO.	DATE:	AUTHORITY	BRIEF RECORD	ZONE	SIGN
DRG. SEALED (PROV.)			19 APR 2000		
DRN. CR Photo	CHD. <i>Patel</i>	TRD.	COMP.	ASSY. DRG. ARDE 9501-03/15	
CD <i>Patel</i>	PASSED <i>Patel</i>	SCALE: 1:1		DESIGN AUTHORITY	
APPROVED <i>Patel</i>		EST. MASS:		ARDE PUNE-411 021	
FOR DIRECTOR		GAUGE SCHD:			
		DATE: 29-10-1996			
MATL: "PTFE TO ASTM D1710-96 TYPE I/TYPE II, GRADE 1, CLASS A"					
PROTECTIVE FINISH:					
TITLE:				DRG. No.	
FORK BEARING FRONT				ARDE 9501-03	
				DET. No. 24 SHTS.	
				SHT. No.	
				PART No.	
				D.S.CAT.No.	
				A.H.S.P.	

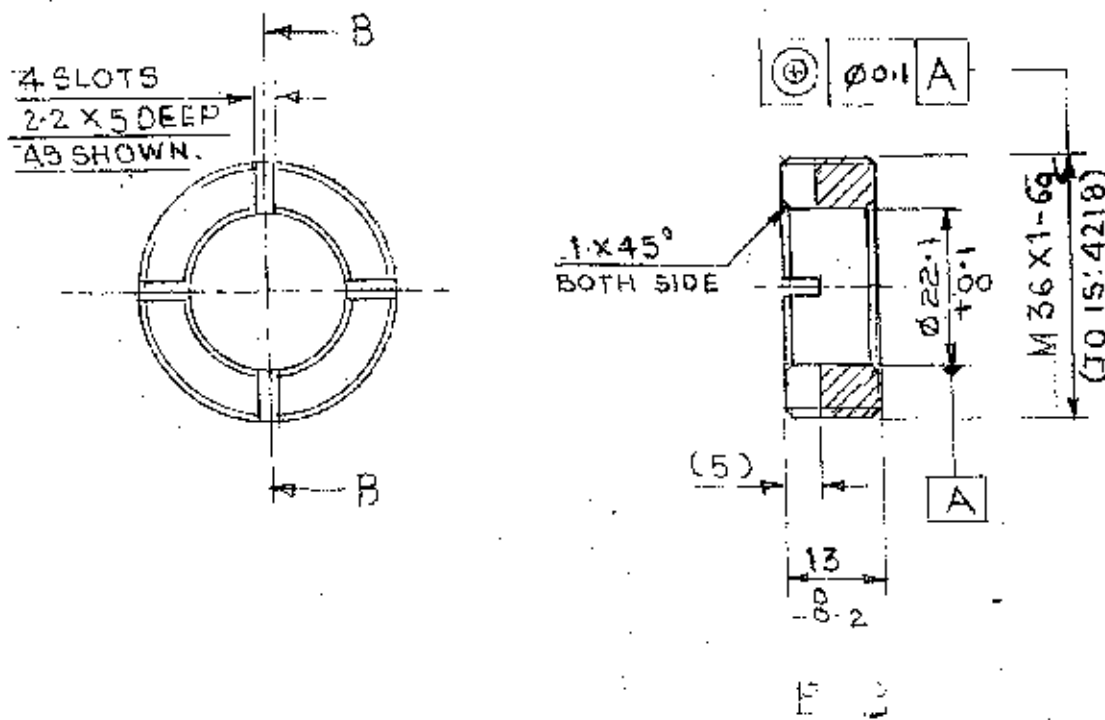
DRAWING CONVENTIONS CONFORM TO IS : ~~4000~~
DIMNS ARE IN m.m. UNLESS OTHERWISE STATED

GEN. TOL. MEDIUM / ~~AS PER IS: 2818~~ CLASS TO IS 2102

DRG. No. **ARDE 9501-03**
DET. No. 25 SHTS.

NOTE : —

ALL SHARP EDGES & BURRS ARE TO BE REMOVED.

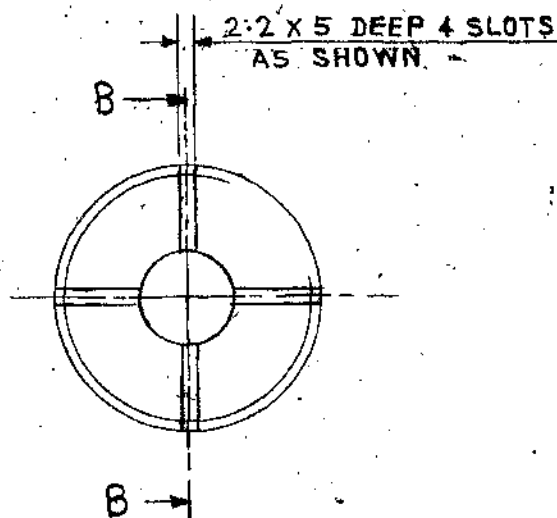
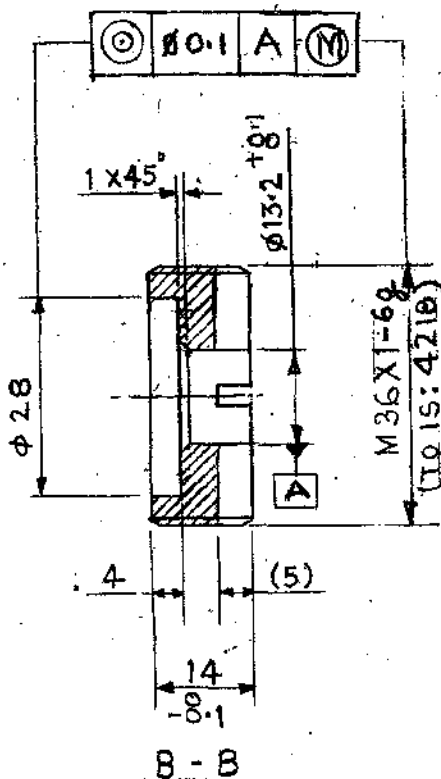


R. NO.	DATE :	AUTHORITY	BRIEF RECORD		ZONE	CD	GO
						SIGN	
DRG. SEALED (PROV.)			For in Form CRE(AA)		19 APR 2000		
DRN. C.R.P.	CHD.	TRD.	COMP.	ASSY. DRG. ARDE 9501-03 /15			
CD	PASSED	SCALE : 1:1	DESIGN AUTHORITY				
APPROVED		EST. MASS:	ARDE PUNE-411 021				
FOR DIRECTOR		GAUGE SCHD:					
		DATE: 15/11/96					
MATL: ALUMINIUM ALLOY TO IS: 733 WITH TENSILE STRENGTH 200 MPa(MIN)				DRG. No. ARDE 9501-03			
PROTECTIVE FINISH: ANODISED TO IS: 1868 AC 25				DET. No. 25 SHTS. SHT. No.			
TITLE:				PART No.			
CLOSING PLUG FRONT BEARING				D.S.CAT.No.			
				A.H.S.P.			

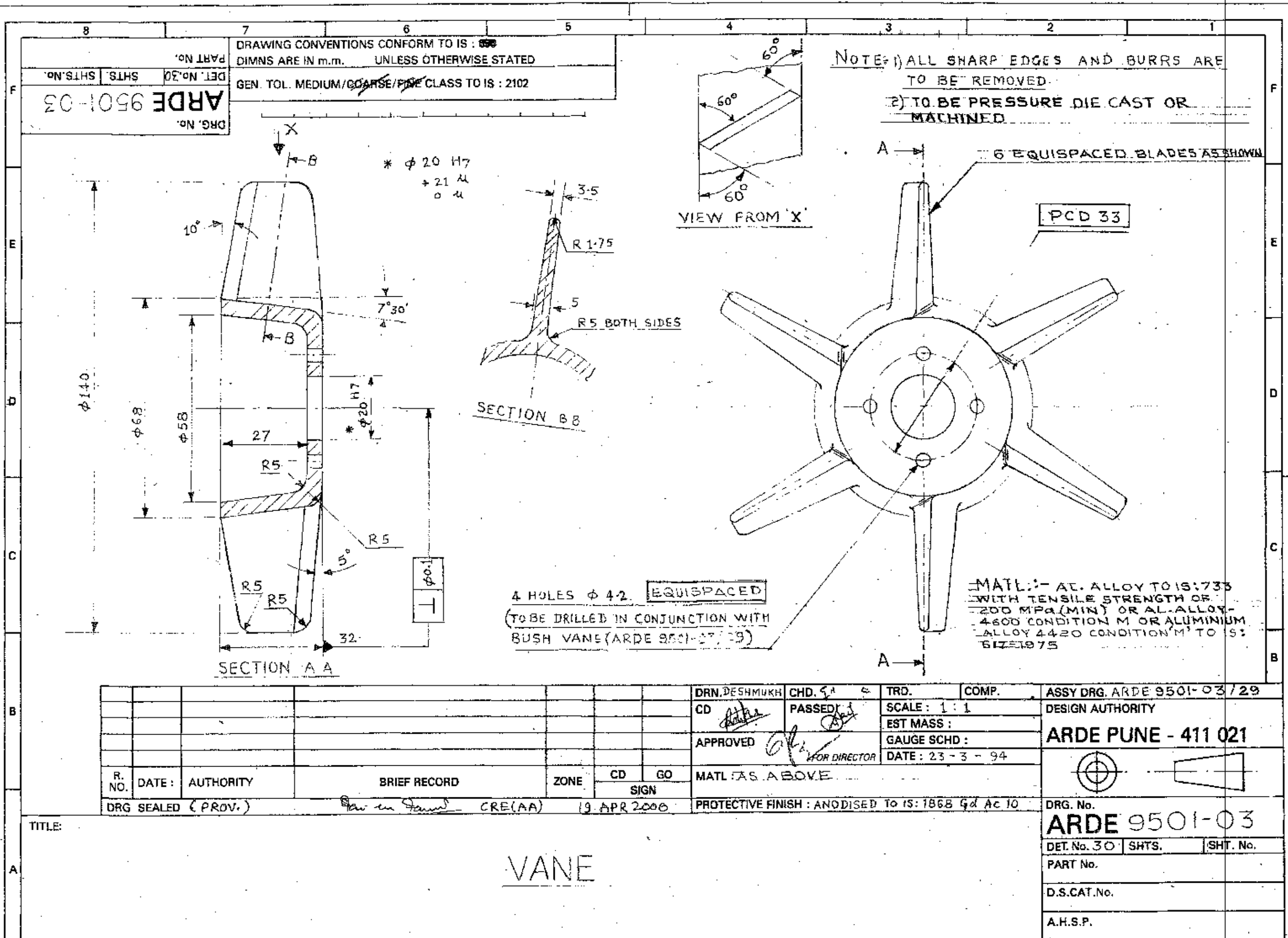
1	2	3	4
PART No.		DRAWING CONVENTIONS CONFORM TO IS : DIMNS ARE IN m.m. UNLESS OTHERWISE STATED	
DET. No. 23	SHTS.	GEN. TOL MEDIUM / COARSE / FINE CLASS TO IS 2102	
DRG. No.			

ARDE 9501-03

NOTE: ALL SHARP EDGES AND BURRS ARE TO BE REMOVED.



R. NO.	DATE:	AUTHORITY	BRIEF RECORD	ZONE	CD	GO
				SIGN		
DRG. SEALED (PROV.)		For in Form CRE (AA)		19 APR 2000		
DRN. DESHMUKH	CHD.	TRD.	COMP.	ASSY. DRG. ARDE 9501-03/15		
CD	PASSED	SCALE: 1:1		DESIGN AUTHORITY		
APPROVED		EST. MASS:		ARDE PUNE-411 021		
FOR DIRECTOR		GAUGE SCHD:				
		DATE: 30-10-96				
MATL: AL. ALLOY TO IS: 733 WITH TENSILE STRENGTH 200 MPa (MIN)						
PROTECTIVE FINISH: ANODISING TO IS: 1868 AC 25						
TITLE:				DRG. No.		
CLOSING PLUG				ARDE 9501-03		
(REAR BEARING)				DET. No. 23 SHTS. SHT. No.		
				PART No.		
				D.S.CAT.No.		
				A.H.S.P.		

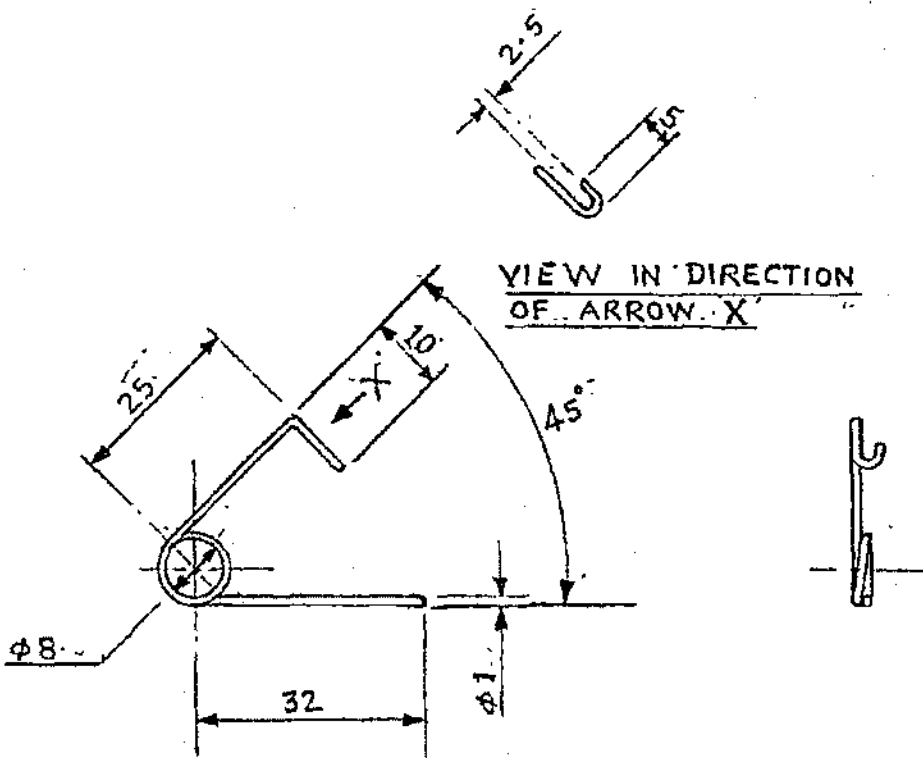


[illegible]

1		2		3		4	
PART no.				DRAWING CONVENTIONS CONFORM TO IS : ☐ DIMNS ARE IN m.m. UNLESS OTHERWISE STATED			
DET. No. 33 SHTS.				GEN. TOL. MEDIUM / CLASS TO IS 2102			
DRG. No.							

ARDE 9501-03

NOTE :- ALL SHARP EDGES AND BURRS ARE TO BE REMOVED.



PROTECTIVE FINISH :- CADMIUM PLATED TO SPEC IS: 1572 - 1968
WITH CLASSIFICATION Cd-12

R. NO.	DATE:	AUTHORITY	BRIEF RECORD	ZONE	CD	GO

DRG. SEALED. (PROV.)	CHD. 5	TRD.	COMP.	ASSY. DRG. ARDE 9501-03
CD	PASSED	SCALE: 1:1	EST. MASS:	DESIGN AUTHORITY
APPROVED	FOR DIRECTOR	GAUGE SCHD:	DATE: 30-3-94	ARDE PUNE-411 021
MATL: SPRING STEEL WIRE TO SPEC IS: 4454 - 1967 Pt 1 Gd-2				

PROTECTIVE FINISH: AS ABOVE.	DRG. No.
TITLE:	ARDE 9501-03
CLIP RETAINING	DET. No. 33 SHTS. SHT. No.
	PART No.
	D.S.CAT.No.
	A.H.S.P.

8	7	6	5	4	3	2	1
DRAWING CONVENTIONS CONFORM TO IS : 8000 DIMNS ARE IN m.m. UNLESS OTHERWISE STATED				LIST OF COMPONENTS			
GEN. TOL. MEDIUM/COARSE/FINE CLASS TO IS : 2102				ITEM No	NOMENCLATURE	No OFF	MATL
DET. No. 29 ARDE 9501-03 DRG. No.				1	VANE	1	ARDE 9501-03
				2	BUSH VANE	1	" "
				3	SNAP HEAD RIVET 4X15 IS: 2907 ALUMINIUM	4	AI ND*

NOTES :-

- 1) FIRST COAT: PAINT, PRE-TREATMENT PRIMER (ETCHING PRIMER) TYPE SPRAYING TO SPECN DEF STAN 80-15/1.
- 2) SECOND COAT: PAINT, PRIMING, CHLORINATED RUBBER, TYPE SPRAYING TO SPECN DEF STAN 80-72/1, COLOUR RED OXIDE (No. 446) TO IS: 5
- 3) THIRD COAT: - PAINT, FINISHING, CHLORINATED RUBBER TYPE SPRAYING TO SPECN DEF STAN 80-72/1, COLOUR DEEP BRONZE GREEN (No 224) TO IS: 5
- 4) ALL COATS OF PAINTS TO BE APPLIED ALL OVER INTERNALLY AND EXTERNALLY EXCEPT HOLES AND I.D. OF BUSH VANE.
- 5) FOR METHOD OF APPLICATION AND TESTS FOR SUITABILITY OF THE PAINTS REFER PARA 6.7.1 OF SPECIFICATION No. ARDE/SPECN/ 613.

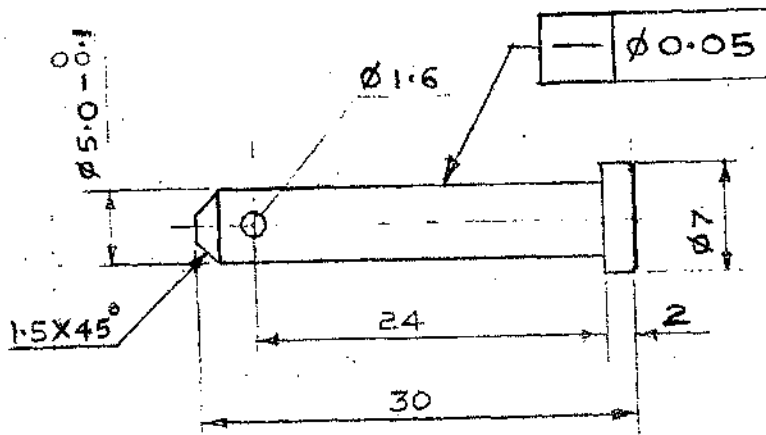
DRN. VIB CD <i>[initials]</i>				CHD. <i>[initials]</i> PASSED <i>[initials]</i>		TRD. SCALE: 1:1		COMP. EST MASS:		ASSY DRG. ARDE 9501-03 DESIGN AUTHORITY ARDE PUNE - 411 021	
APPROVED <i>[initials]</i> FOR DIRECTOR				MATL:		GAUGE SCHD:		DATE: 29-10-96			
R. NO. DATE: AUTHORITY				BRIEF RECORD		ZONE		CD GO SIGN		DRG. No. ARDE 9501-03	
DRG SEALED (PROV.)				CRE(AA) 13 APR 2000		PROTECTIVE FINISH:		DET. No. 29 SHTS.		SHT. No.	
TITLE:										PART No.	
VANE ASSY										D.S.CAT.No.	
										A.H.S.P.	

PANEL I

1	2	3	4
PART No.		DRAWING CONVENTIONS CONFORM TO IS : XXXX	
DET. No. 28		DIMNS ARE IN m.m. UNLESS OTHERWISE STATED	
SHTS.		GEN. TOL. MEDIUM / COARSE / FINE CLASS TO IS 2102	
DRG. No.			
NOTE:- ALL SHARP EDGES & BURRS ARE TO BE REMOVED.			
4 HOLES $\phi 7$ EQUISPACED $\phi 33$ PCD 45 8 R EQUISPACED AS SHOWN $\phi 0.1$ C 2.2 20 $\phi 25$ +0.1/-0.0 8.5 $\phi 0.1$ B A-A			
R. NO.	DATE:	AUTHORITY:	BRIEF RECORD
			ZONE
			CD GO
			SIGN
DRG. SEALED (PROV.) <i>For in Service</i> CRE(AA) 19 APR. 2000			
DRN. C.R. Phatke	CHD. <i>g</i>	TRD.	COMP.
CD <i>g</i>	PASSED <i>g</i>	SCALE: 1:1	ASSY. DRG. ARDE 9501-03
		EST. MASS:	DESIGN AUTHORITY
APPROVED <i>g</i>		GAUGE SCHD:	ARDE PUNE-411 021
<i>FOR DIRECTOR</i>		DATE: 4-7-1995	
MATERIAL: AL. ALLOY TO IS: 733 WITH TENSILE STRENGTH 200 N/mm ² (MIN)			
PROTECTIVE FINISH: ANODISED TO IS: 1868 GR. A & 25			DRG. No.
TITLE:			ARDE 9501-03
SPINDLE BEARING HOUSING			DET. No. 28 SHTS.
			SHT. No.
			PART No.
			D.S.CAT.No.
			A.H.S.P.

1	2	3	4
PART No.		DRAWING CONVENTIONS CONFORM TO IS : XXXX DIMNS ARE IN m.m. / UNLESS OTHERWISE STATED	
DET. No. 32		GEN. TOL. MEDIUM / COARSE FINE CLASS TO IS 2102	
SHTS. No.			
DRG. No.			
ARDE 9501-03			

NOTE:- ALL SHARP EDGES & BURRS ARE TO BE REMOVED.



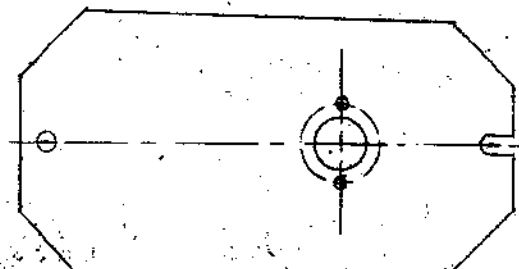
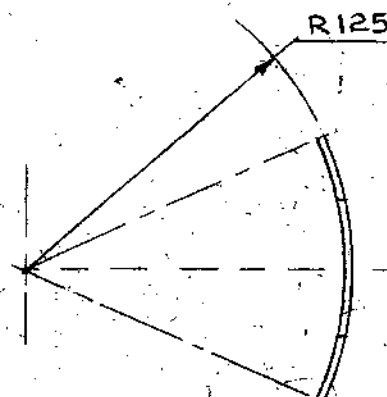
R. NO.	DATE :	AUTHORITY	BRIEF RECORD	ZONE	CD	GO
DRG. SEALED (PROV.) <i>See in Form</i> CRE(AA)				19 APR 2000		
DRNCR Phatch	CHD. <i>GL-E</i>	TRD.	COMP.	ASSY. DRG. ARDE 9501-03		
CD <i>Phatch</i>	PASSED <i>Phatch</i>	SCALE: 2:1		DESIGN AUTHORITY		
		EST. MASS:		ARDE PUNE-411 021		
APPROVED		GAUGE SCHD :				
FOR DIRECTOR		DATE: 30-2-94				
MATL: STAINLESS STEEL TO IS: 6603 WITH CY. CONTENT 15% MIN.						
PROTECTIVE FINISH:				DRG. No.		
TITLE: <u>PIN VANE</u>				ARDE 9501-03		
				DET. No. 32 SHTS.		
				SHT. No.		
				PART No.		
				D.S.CAT.No.		
				A.H.S.P.		

ARDE 9501-03

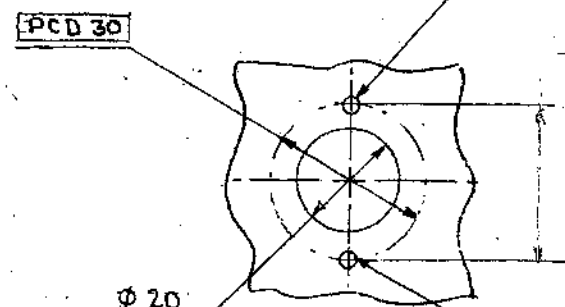
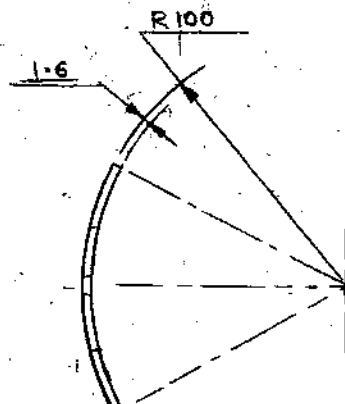
DRG No

CONVERSIONS CONFORM TO IS: 2102
UNLESS OTHERWISE STATED
GEN. TOL. MEDIUM/COURSE/FINE CLASS TO IS: 2102

NOTE: ALL SHARP EDGES & BURRS ARE TO BE REMOVED.

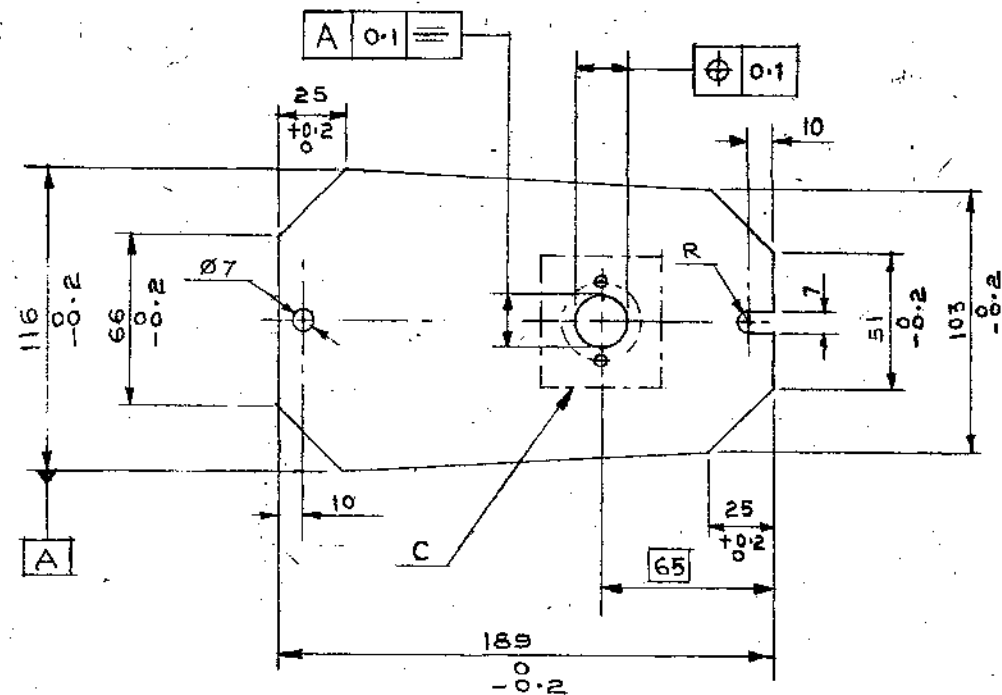


VIEW AFTER FORMING

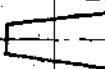


VIEW AT C
SCALE: 1:1

2 HOLES Ø 3.1
TO BE DRILLED IN
CONJUNCTION WITH
THE HOLES ON
ARMING WIRE GUIDE
(DRG. No ARDE 9501-03/37)

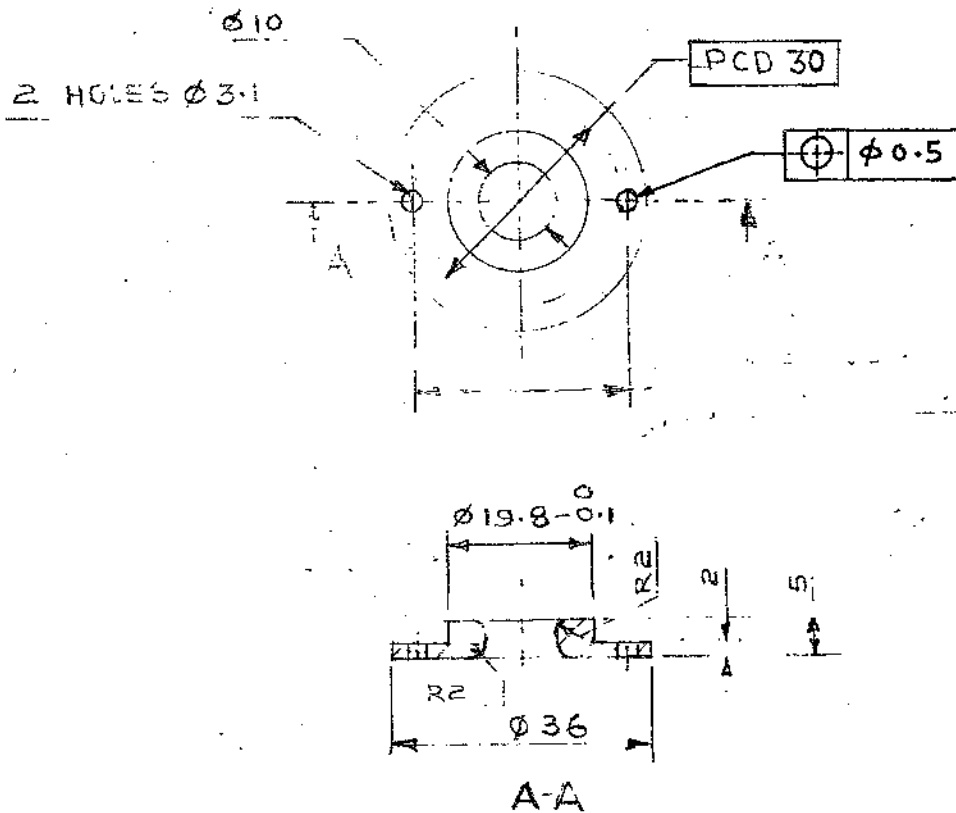


VIEW ON DEVELOPMENT

				DRG. No. ARDE 9501-03/35			
				DESIGN AUTHORITY			
				ARDE PUNE-411021			
				 			
				DRG. No. ARDE 9501-03			
				DET. No 36 SHTS. SHT.No.			
				PART No.			
				D. S. CAT. No.			
				A.H.S.P.			

PANEL II

1	2	3	4
PART no.		DRAWING CONVENTIONS CONFORM TO IS : 400	
DET. No. 37		DIMNS ARE IN m.m. UNLESS OTHERWISE STATED	
SHTS. No.		GEN. TOL. MEDIUM / COARSE / FINE CLASS TO IS 2102	
DRG. No.		NOTE :- ALL SHARP EDGES & BURRS ARE TO BE REMOVED.	



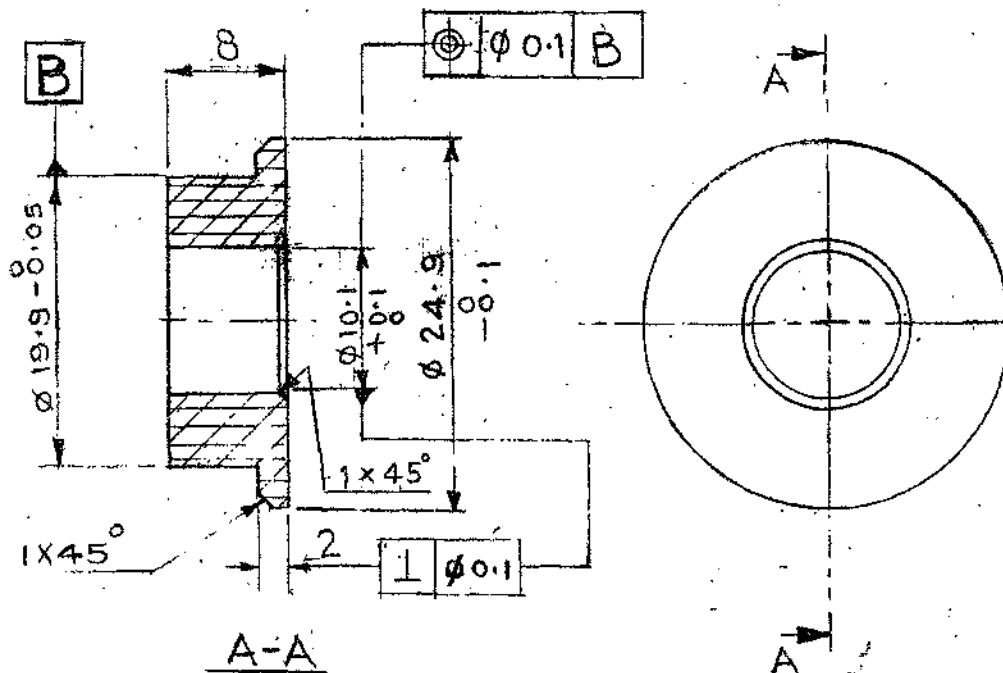
R. NO.	DATE :	AUTHORITY	BRIEF RECORD	ZONE	CD	GO
					SIGN	

DRG. SEALED (PROV.) <i>For in Form</i> CRE(AA) 19 APR 2000	
DRN. C. R. Phatke	CHD. G. TRD. COMP.
CD <i>[Signature]</i>	PASSED
APPROVED	SCALE : 1:1
FOR DIRECTOR	EST. MASS:
	GAUGE SCHD :
	DATE : 17-7-1985
MATL: BRASS TO IS: 319 ANY CONDITION	
PROTECTIVE FINISH :	
TITLE :	
ARMING WIRE GUIDE	
DRG. No. ARDE 9501-03	
DET. No. 37	SHTS. SHT. No.
PART No.	
D.S.CAT.No.	
A.H.S.P.	

1		2		3		4	
PART No.				DRAWING CONVENTIONS CONFORM TO IS : 800			
DET. No. 27				DIMNS ARE IN m.m. UNLESS OTHERWISE STATED			
SHTS. No.				GEN. TOL. MEDIUM / COARSE FINE CLASS TO IS 2102			
DRG. No.							

ARDE 9501-03

NOTE: ALL FLASHES & EXCESS OF
MATL. TO BE REMOVED.



1		23-10-01		AMENDED VIDE AL. NO-26/2001			
R. NO.	DATE :	AUTHORITY	BRIEF RECORD		ZONE	CD	GO
DRG. SEALED (PROV.)		For in Service		CRE(AA)	13 APR 2000		
DRN. C.R. Phatak	CHD. S	TRD.	COMP.	ASSY. DRG. ARDE 9501-03			
CD	PASSED	SCALE : 2:1	DESIGN AUTHORITY				
APPROVED		EST. MASS:		ARDE PUNE-411 021			
FOR DIRECTOR		GAUGE SCHD :					
		DATE : 5-7-1995					
MATL. "PTFE TO ASTM D 1710-96 TYPE I/TYPE II, GRADE 1, CLASS A"							
PROTECTIVE FINISH :				DRG. No.			
TITLE :				ARDE 9501-03			
				DET. No. 27		SHTS.	SHT. No.
				PART No.			
				D.S.CAT.No.			
				A.H.S.P.			

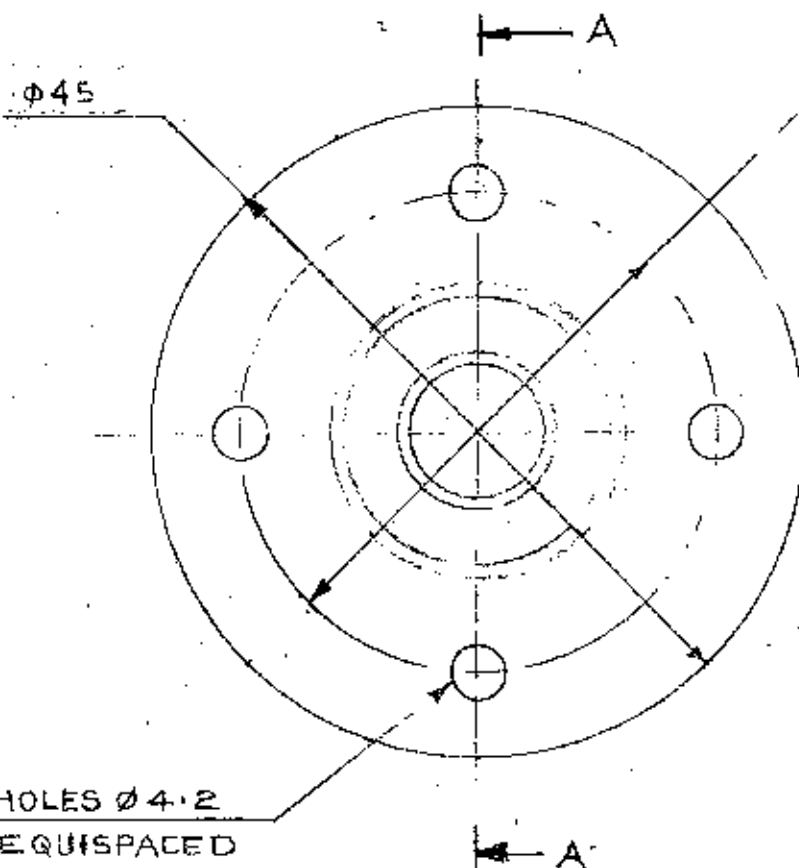
SPINDLE BEARING

NOTE-ALL SHARP EDGES & BURRS ARE TO BE REMOVED.

* $\phi 20 f7$ $\pm \phi 10 H7$
 -20μ $+15 \mu$
 -43μ 0μ

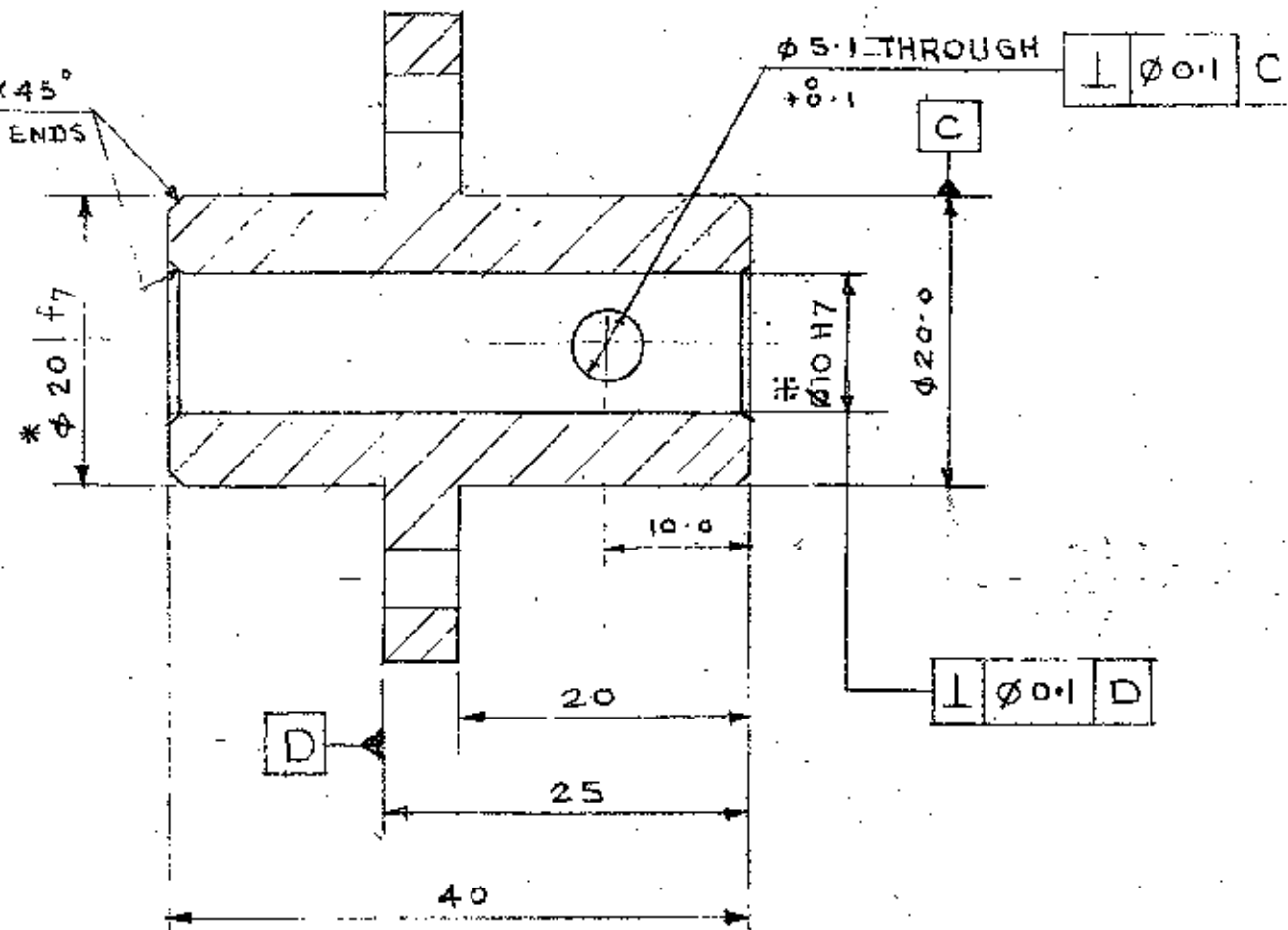
DRAWING CONVENTIONS CONFORM TO IS : 8000
 DIMNS ARE IN m.m. UNLESS OTHERWISE STATED
 GEN. TOL. MEDIUM/COARSE/FINE CLASS TO IS : 2102

ARDE 9501-03
 DET. No. 31
 SHTS. 1
 PART No. 1



PCD 33

1X45°
 BOTH ENDS



SECTION A-A

DRN. VUB	CHD. S	TRD.	COMP.	ASSY DRG. ARDE 9501-03/29
CD	PASSED	SCALE : 2:1	EST MASS :	DESIGN AUTHORITY
APPROVED	FOR DIRECTOR	GAUGE SCHD :	DATE : 29-10-96	ARDE PUNE - 411 021
R. NO.	DATE :	AUTHORITY	BRIEF RECORD	ZONE
CD	GO	MAT. ALLOY TO IS : 733 WITH TENSILE STRENGTH 200 MPa (MIN)	PROTECTIVE FINISH : ANODISED TO IS : 1868 Gd A & 10	DRG. No.
DRG SEALED (PROV.)	19 APR 2000	CRE (AA)		ARDE 9501-03

BUSH VANE

DET. No. 31 SHTS. 1 SHT. No. 1
 PART No. 1
 D.S.CAT.No. 1
 A.H.S.P. 1

PIN, ARMING FORK

TITLE:

PROTECTIVE FINISH:

MATL: STAINLESS STEEL TO IS: 6603
WITH CR. CONTENT 15% MIN.

DATE: 13-12-96

APPROVED

CD PASSED

DRN. DESKCHKD

DRG. SEALED (PROV.)

TRD. COMP.

SCALE: 2:1

EST. MASS:

GAUGE SCHD:

ARDE PUNE-411 021

DESIGN AUTHORITY

ASSY. DRG. ARDE 9501-03/15

19 APR 2000

CRE(MA)

BRIEF RECORD

AUTHORITY

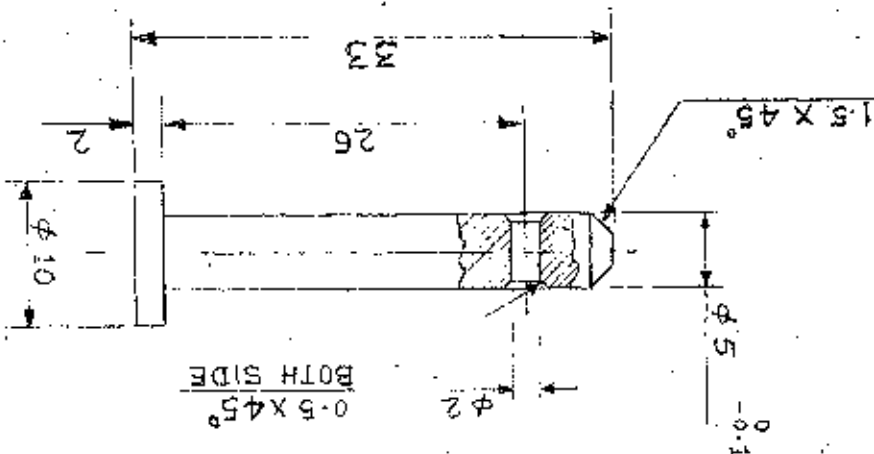
R. NO.

DATE

ZONE

SIGN

CD GO



NOTE: - ALL SHARP EDGES AND BURRS ARE TO BE REMOVED.

DRG. No.

ARDE 9501-03

DET. No. 40 SHTS.

PART no.

GEN. TOL. MEDIUM / CONFORM TO IS: 2102

DIMNS ARE IN mm. UNLESS OTHERWISE STATED

4

3

2

1

8		7		6		5		4		3		2		1					
DRAWING CONVENTIONS CONFORM TO IS : 8026				LIST OF COMPONENTS															
DIMNS ARE IN m.m. UNLESS OTHERWISE STATED				GEN. TOL. MEDIUM/COARSE/FINE CLASS TO IS : 2102															
PART No.		DET. No.		SHTS.		ITEM No.		NOMENCLATURE		No. OFF		MATL		DRG No.		DET No.		PART No.	
ARDE 9501-03		35		3		1		PANEL II		1		STEEL		ARDE 9501-03		36			
ARDE 9501-03		35		3		2		ARMING WIRE GUIDE		1		STEEL		ARDE 9501-03		37			
ARDE 9501-03		35		3		3		SNAP HEAD RIVET 3X10 IS: 2998		2		STEEL		ARDE 9501-03		38			

NOTES:-

1. TO BE PAINTED BOTH SIDES, OMIT PAINT FROM HOLES.
2. FIRST COAT: PAINT, PRE-TREATMENT PRIMER (ETCHING PRIMER) TYPE SPRAYING TO SPECN DEF STAN 80-15/1.
3. SECOND COAT: PAINT, PRIMING, CHLORINATED RUBBER, TYPE SPRAYING TO SPECN DEF STAN 80-72/1, COLOUR RED OXIDE (No. 446) TO IS: 5.
4. THIRD COAT: PAINT, FINISHING, CHLORINATED RUBBER, TYPE SPRAYING TO SPECN DEF STAN 80-72/1, COLOUR DEEP BRONZE GREEN (No. 224) TO IS: 5.
5. ALL COATS OF PAINTS TO BE APPLIED ALL OVER ON BOTH SIDES.
6. FOR METHOD OF APPLICATION AND TESTS FOR SUITABILITY OF THE PAINTS, REFER PARA 6.7.1 OF SPECIFICATION No. ARDE / SPECN / 613.

SECTION A-A
(ENLARGED)

DRG. No. ARDE 9501-03				SCALE: 1:2				EST MASS:				Gauge Schd:			
DESIGN AUTHORITY				DATE: 3-10-1996				MATERIAL:				PROTECTIVE FINISH:			
ARDE PUNE - 411 021				DATE: 3-10-1996				MATERIAL:				PROTECTIVE FINISH:			
DRG. No. ARDE 9501-03				DATE: 3-10-1996				MATERIAL:				PROTECTIVE FINISH:			
DET. No. 35				SHTS.				SHT. No.				PART No.			
D.S.CAT.No.				A.H.S.P.				MATERIAL:				PROTECTIVE FINISH:			

R. NO.	DATE:	AUTHORITY	BRIEF RECORD	ZONE	CD	GO	SIGN	MATERIAL:	PROTECTIVE FINISH:

TITLE: PANEL II AND ARMING WIRE GUIDE ASSY.

DRG. No. ARDE 9501-03

DET. No. 35 SHTS. SHT. No.

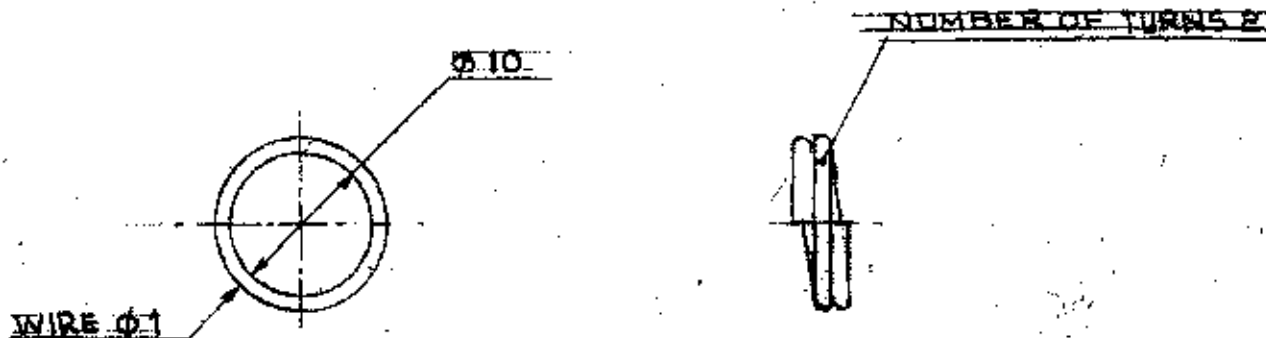
PART No.

D.S.CAT.No.

A.H.S.P.

1	2	3	4
PART No.		DRAWING CONVENTIONS CONFORM TO IS 1572 DIMNS ARE IN m.m. UNLESS OTHERWISE STATED	
ON SHTS	SHTS	GEN. TOL. MEDIUM / CLASS TO IS 2102	
DET. No. 44		ARDE 9501-03	
DRG. No.			

NOTE: ALL SHARP EDGES & BURRS ARE TO BE REMOVED.

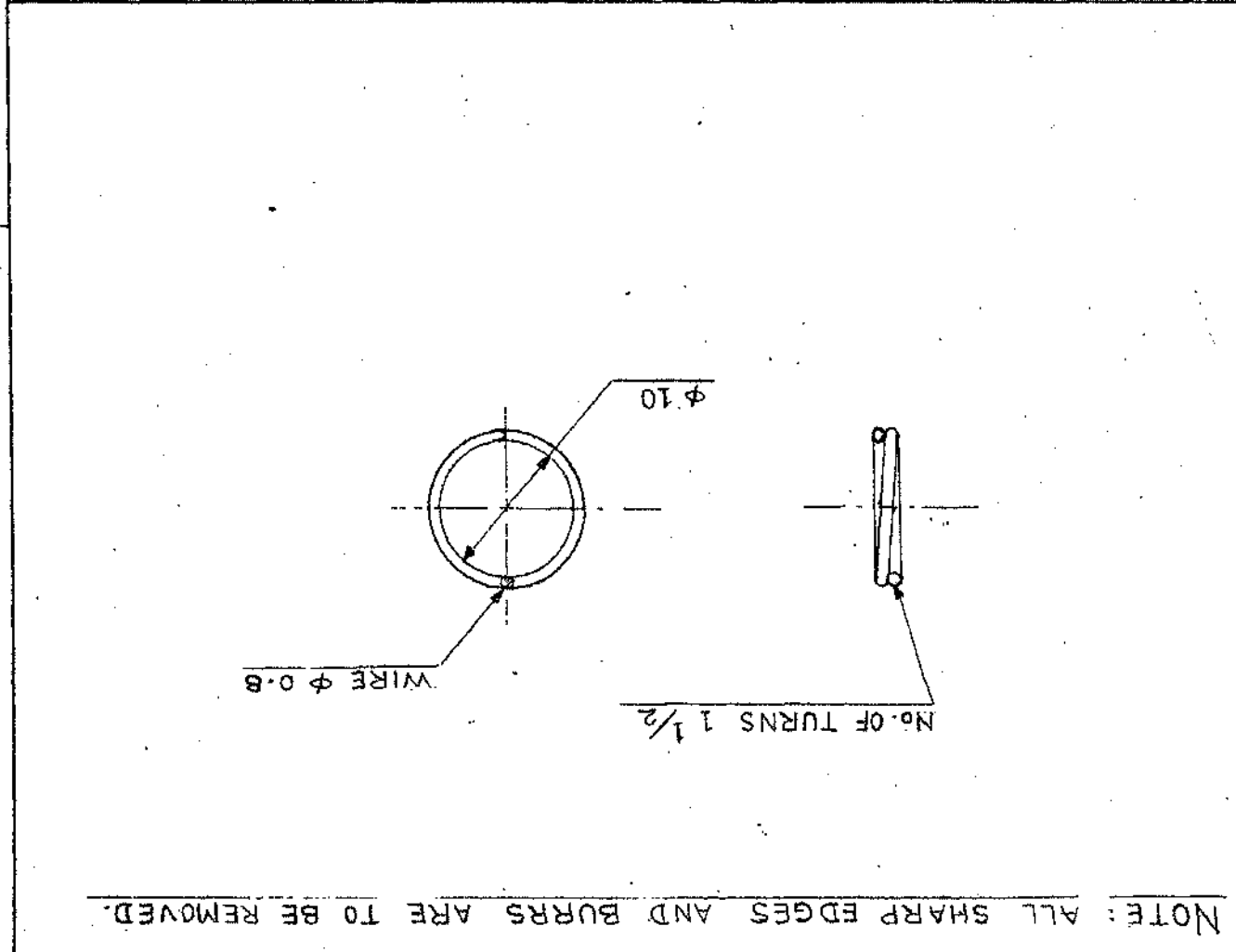


R. NO.	DATE:	AUTHORITY	BRIEF RECORD	ZONE	CD	GO
					SIGN	
DRG. SEALED (PROV.)		TRD. COMP.		19 APR 2000		
DRN. 5.1.1.24 m.10	CHD. <i>for</i>	SCALE: 2:1		ASSY. DRG. ARDE 9501-03/42		
CD <i>for</i>	PASSED <i>for</i>	EST. MASS:		DESIGN AUTHORITY		
APPROVED <i>for</i>		GAUGE SCHD:		ARDE PUNE-411 021		
FOR DIRECTOR		DATE: 10-11-99				
MATL: SPRING STEEL TO IS 4454 PL. 1. Qd. 2						
PROTECTIVE FINISH: CADMIUM PLATED TO IS 1572 Cd B				DRG. No.		
TITLE:				ARDE 9501-03		
				DET. No. 44 SHTS		
				PART No.		
				D.S. CAT. No.		
				A.H.S.P.		
RING FOR WARNING FLAG						

TITLE:		RING RETAINING	
PROTECTIVE FINISH: CADMIUM PLATING TO IS: 1572 Cd 12		DRG. No.	
ARDE 9501-03		DET. No. 41	
SHTS.		SHT. No.	
PART No.		D.S. CAT. No.	
A.H.S.P.			

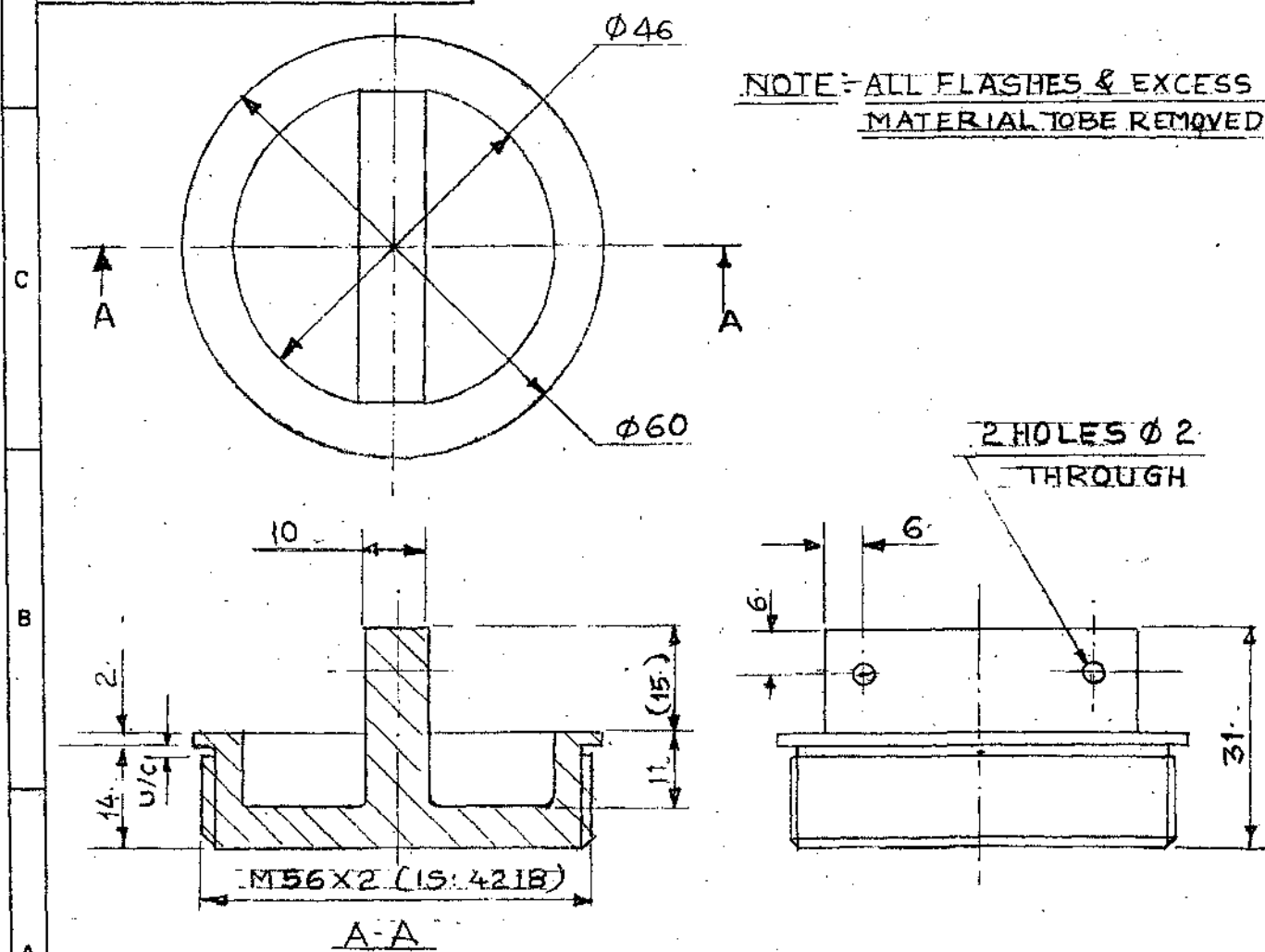
MATERIAL: SPRING STEEL WIRE TO IS: 4454		DATE: 16-12-96	
APPROVED		G.A.U. SCHED:	
CD		EST. MASS:	
PASSED		SCALE: 2:1	
DRN. DESHMUKH		TRD.	
CHD.		COMP.	
DRG. SEALED (PROV.)		ASSY. DRG. ARDE 9501-15	
19 APR 2000		DESIGN AUTHORITY	
ARDE PUNE-411 021			

R. NO.		DATE:		AUTHORITY		BRIEF RECORD		ZONE		SIGN	



DRG. No.		ARDE 9501-03	
DET. No. 41		SHTS.	
PART no.		SHTS. No.	
DIMS ARE IN M.M. UNLESS OTHERWISE STATED		GEN. TOL. MEDIUM / COARSE/FINE CLASSES TO IS 2102	
DRAWING CONVENTIONS CONFORM TO IS: 1		UNLESS OTHERWISE STATED	
1		2	
3		4	

1		2		3		4	
PART No. ARDE 9501-03 DET. No. 39 SHTS.				DRAWING CONVENTIONS CONFORM TO IS : UNLESS OTHERWISE STATED DIMNS ARE IN m.m.			
GEN. TOL. MEDIUM / COARSE FINE CLASS TO IS 2102							



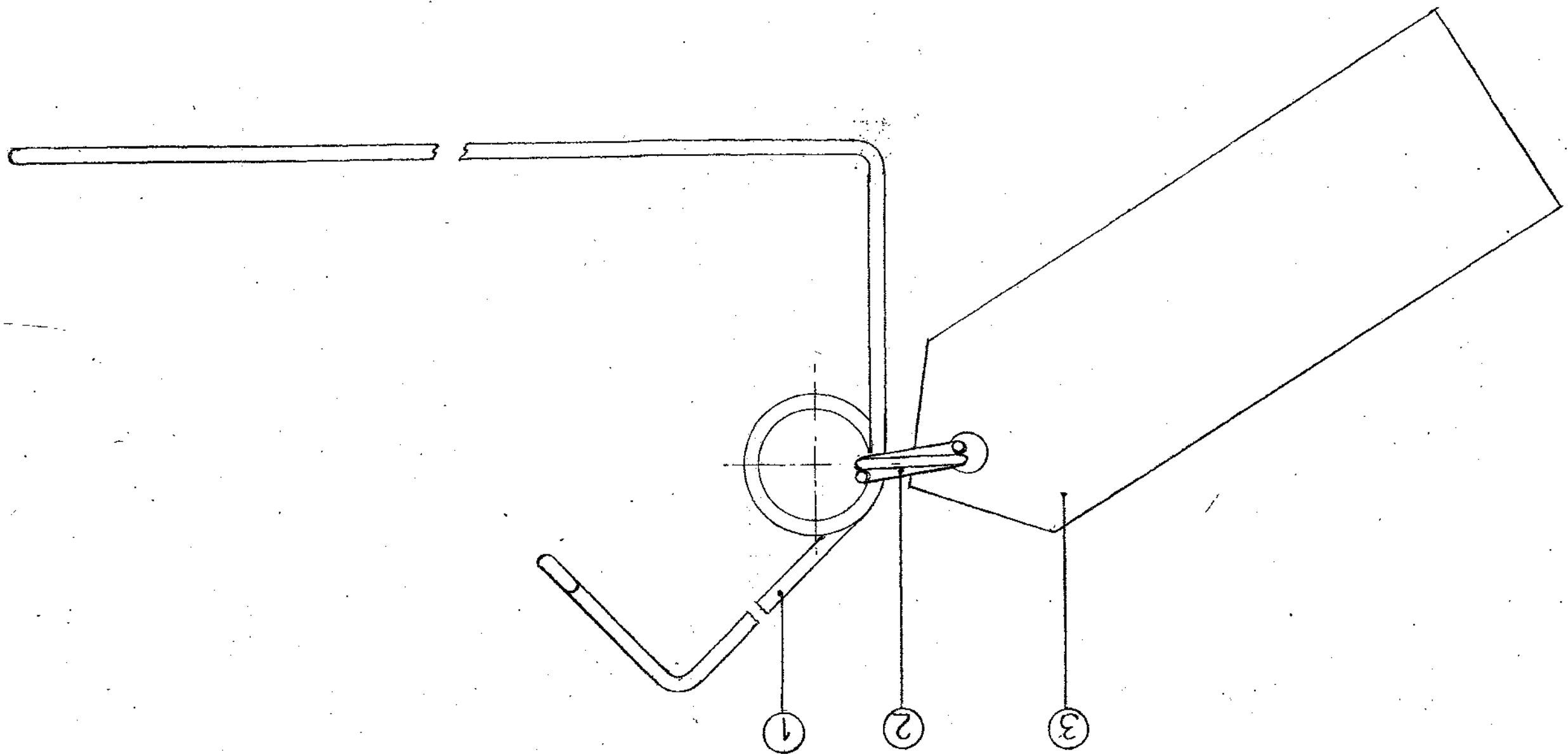
R. NO.		DATE :		AUTHORITY		BRIEF RECORD		ZONE		CD		GO	
										SIGN			
DRG. SEALED (PROV.) <i>For use Form</i> CRE(AA) 19 APR 2000													
DRN. GNG		CHD <i>21.12.2000</i>		TRD. DYD		COMP.		ASSY. DRG. ARDE 9501-03					
CD <i>Patel</i>		PASSED <i>for</i>		SCALE : 1:1				DESIGN AUTHORITY					
APPROVED <i>for</i>		FOR DIRECTOR		EST. MASS:				ARDE PUNE-411 021					
				GAUGE SCHD :		DATE : 30-4-94							
MATL: PVC / POLYTHENE OF ANY COLOUR													
PROTECTIVE FINISH :								DRG. No. ARDE 9501-03					
TITLE :								DET. No. 39		SHTS.		SHT. No.	
ADAPTOR BLANKING								PART No.					
								D.S. CAT. No.					
								A.H.S.P.					

A2

CLIP TRANSIT ASSY.

A.H.S.P.	
D.S.CAT.No.	
PART No.	
DET.No. 42	SHTS.
ARDE 9501-03	
DRG. No.	
ARDE PUNE - 411 021	
DESIGN AUTHORITY	
ASSY DRG. ARDE 9501-03 /	

DRG SEALED (PROV.)		15 APR 2000		PROTECTIVE FINISH :	
R. NO.	DATE :	AUTHORITY		BRIEF RECORD	
ZONE	CD	GO	SIGN		
MATERIAL :		APPROVED			
DATE : 10-11-99		FOR DIRECTOR			
GAUGE SCHED :		K. L.			
EST MASS :		PASSED			
SCALE : 2:1		CD			
TRD.		CHD.			
COMP.		DRN.			

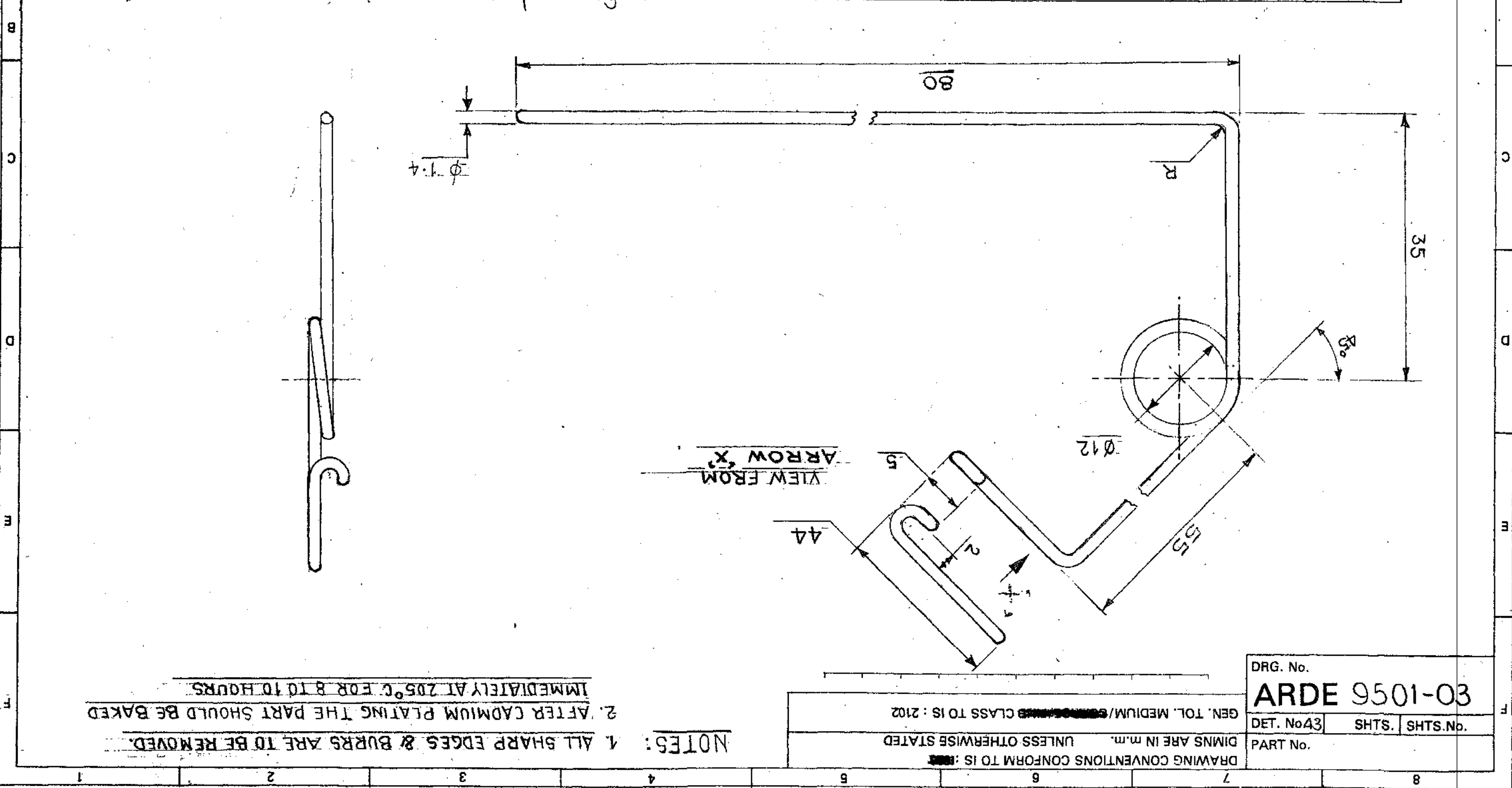


ITEM No	NOMENCLATURE	NO OF MATL	DRG. No	DET. No	PART. No
1	CLIP TRANSIT	1	ARDE 9501-03	43	
2	RING FOR WARNING FLAG	1		44	
3	WARNING FLAG	1		45	

DRAWING CONVENTIONS CONFORM TO IS 1502		DIMNS ARE IN m.m. UNLESS OTHERWISE STATED		GEN. TOL. MEDIUM/CLASS TO IS : 2102	
PART No.		DET. No. 42		DRG. No.	
SHTS.		SHTS.		ARDE 9501-03	

CLIP TRANSIT

A.H.S.P.	
D.S.CAT.No.	
PART No.	
DET.No.43	SHTS.
ARDE 9501-03	
DRG. No.	
PROTECTIVE FINISH: CADMIUM PLATED TO IS: 1572 Cd B	
MATT: SPRING STEEL WIRE TO IS: 4454 Pt I	
DATE: 10-11-99	
APPROVED	
GAGE SCHD:	
EST MASS:	
SCALE: 2:1	
CD	
PASSED	
TRD.	
COMP.	
ASSY DRG. ARDE 9501-03/42	
DESIGN AUTHORITY	
ARDE PUNE - 411 021	
A	



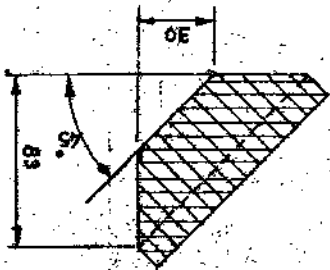
PIECE PACKING TOP-1

TITLE

DRG NO.	ARDE 9501-05
DET. NO.	2
SHT. NO.	1
PART NO.	
D.S. CAT. NO.	
A.H.S.P.	

NO.	1
DATE	10/1/86
AUTHORITY	ISSUE - H
BRIEF RECORD	
ZONE	
CD	
SIGN	
PROTECTIVE FINISH	AS ABOVE
APPROVED	
DATE	1/1/85
GAUGE SCHED.	
EST. MASS	
SCALE	1:2.5
DESIGN AUTHORITY	ARDE PUNE - 411 021
ASSY DRG. ARDE 9501-05, SMT. 2	

PIECE WOOD-I (QTY-4)
(SCALE: 1:2)



PIECE FELT TO THE SIZE OF PIECE WOOD TO SPEC. IS: 1719 (PROOFED MEDIUM HARD) TO BE STUCK TO PLYWOOD WITH APPROVED ADHESIVE AND NAILED BY 8 NAILS 5#10 X 20 LONG TO SPEC. IS: 723-1972



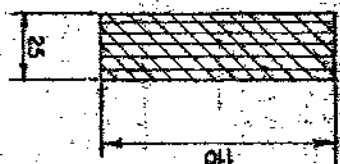
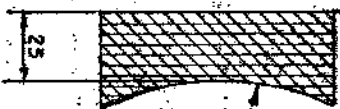
PIECE FELT (QTY-8)
SIZE: 95 X 50 X 10MM TO SPEC. IS: 1719 (PROOFED MEDIUM HARD) TO BE STUCK TO PLYWOOD WITH APPROVED ADHESIVE, FOLDED BACK AND NAILED BY 4 NAILS TO PLYWOOD WITH APPROVED ADHESIVE. 1-8 X 30 LONG CLINCHED FROM OTHER END AS SHOWN TO SPEC. IS: 723-1972

PIECE WOOD-1
EACH SECURED TO PLYWOOD BY 2 WOOD SCREWS MS CSK HD 8 X 3-45 X 35 LONG TO SPEC. IS: 6760 AS SHOWN

PIECE POLYETHYLENE-II
TO BE STUCK TO PLYWOOD WITH APPROVED ADHESIVE AS SHOWN

PIECE POLYETHYLENE-I
SIZE: 0.232 X 25THK. (QTY-1)
TO BE STUCK TO PLYWOOD WITH APPROVED ADHESIVE AS SHOWN

PIECE POLYETHYLENE-II (QTY-4)
(SCALE: 1:2)



EXPANDED POLYETHYLENE FOAM TO DENSITY 35 TO 40 kg/m³

3) PIECE POLYETHYLENE I & II

TO BE COATED ALL OVER WITH SHELLAC VARNISH APC-224 OR APC-225 TO SPEC. ISS: 8010-63

VARNISHING

GRADE: BWR

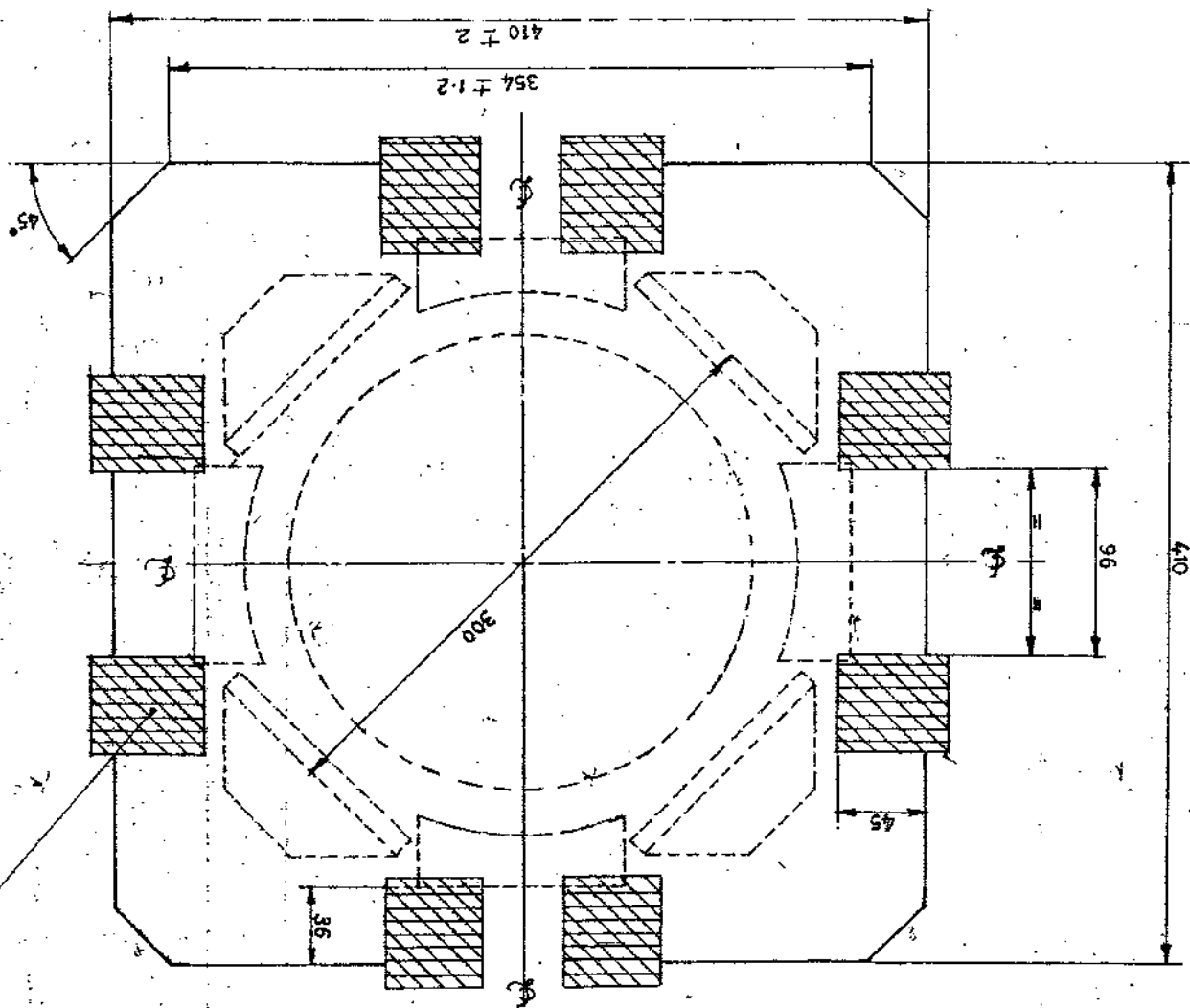
PLYWOOD MOISTURE PROOF TO SPEC. IS: 1303-1989

2) PLYWOOD

TIMBER SHOWN IN APPENDIX 'A' OF SPEC. IND/ME/883 (PROV.)

1) PIECE WOOD-I

MATL:-



12THK PLYWOOD

DRG NO.	ARDE 9501-05
DET. NO.	2
SHT. NO.	1
PART NO.	
D.S. CAT. NO.	
A.H.S.P.	

ARDE 9501-05

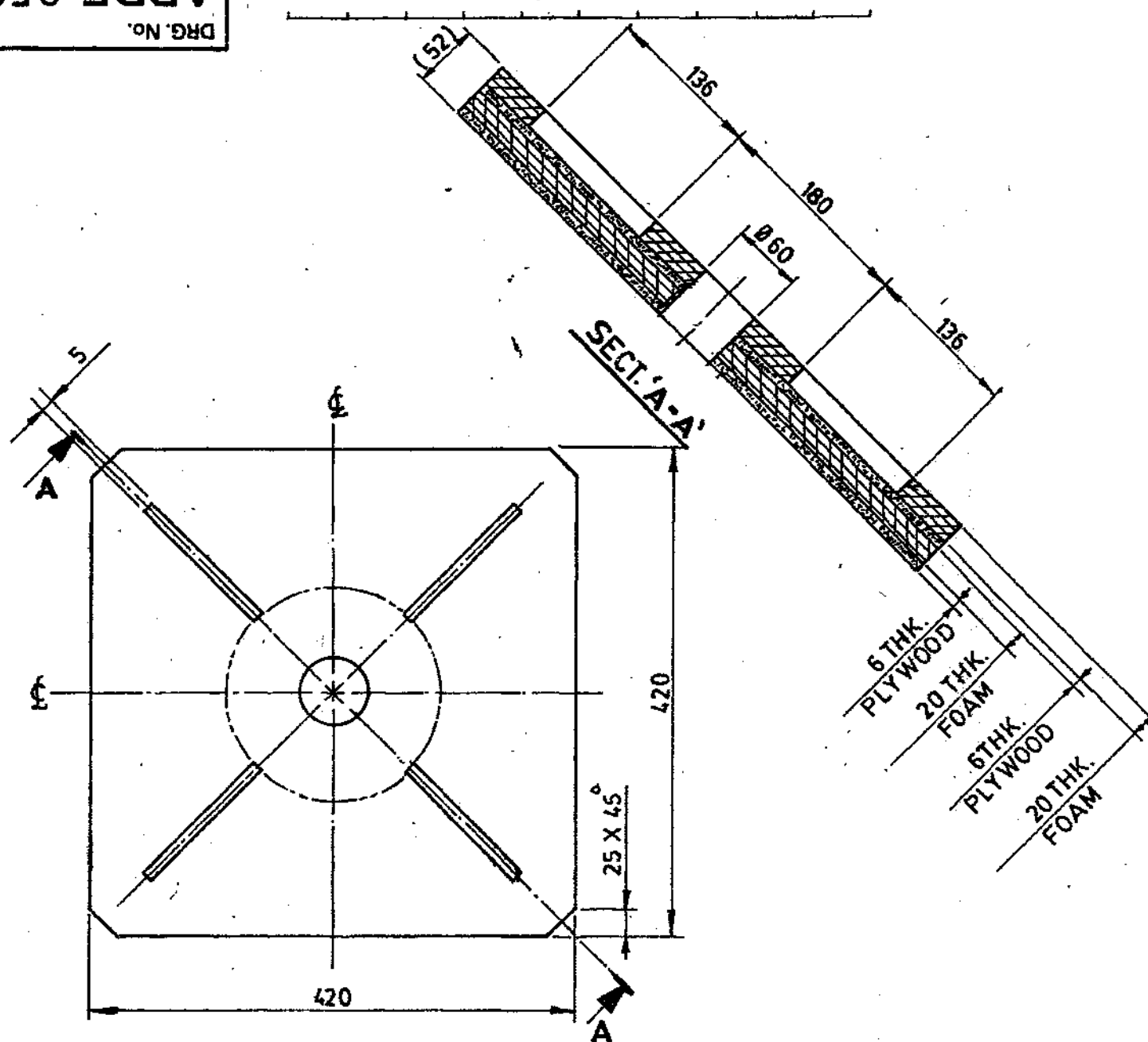
DRG. No.

DET. No. 1

ON SHTS

PART No.

DRAWING CONVENTIONS CONFORM TO IS : 696
DIMNS ARE IN m.m. UNLESS OTHERWISE STATED
GEN. TOL. ~~MEDIUM~~ COARSE/CLASS TO IS : 2102



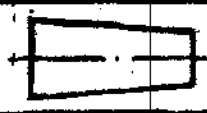
MATL :-

FOAM :-
CROSSLINKED POLYETHYLENE FOAM TO
DENSITY $80 \pm 5 \text{ Kg/m}^3$

PLYWOOD :-
PLYWOOD TO SPEC. IS : 303-89, GRADE : BWR.
TO BE COATED ALL OVER WITH SHELLAC VARNISH
APC 224 OR APC 225 TO SPEC. JSS : 8010-63.

NOTE :-

PLYWOOD PIECES TO BE STUCK TO FOAM
WITH APPROVED ADHESIVE AS SHOWN.

								DRN. Suresh	CHD. <i>[Signature]</i>	TRD.	COMP.	ASSY DRG. ARDE 9501-05, SHT-2	
								CD	PASSED <i>[Signature]</i>	SCALE: 1:5		DESIGN AUTHORITY	
								APPROVED <i>[Signature]</i>		EST MASS:		ARDE PUNE - 411021	
									FOR DIRECTOR	GAUGE SCHD:		 	
								MATL: AS ABOVE		DATE: 4-1-2000			
R. NO.	DATE:	AUTHORITY	BRIEF RECORD	ZONE	CD	GO							
							SIGN						
DRG SEALED (PROV.) <i>[Signature]</i>							CRE (AA)	08 MAY 2000		PROTECTIVE FINISH:		DRG. No.	

TITLE:

PIECE PACKING BOTTOM

DRG. No.
ARDE 9501-05

DET. No. 1 SHTS. SHT.No.

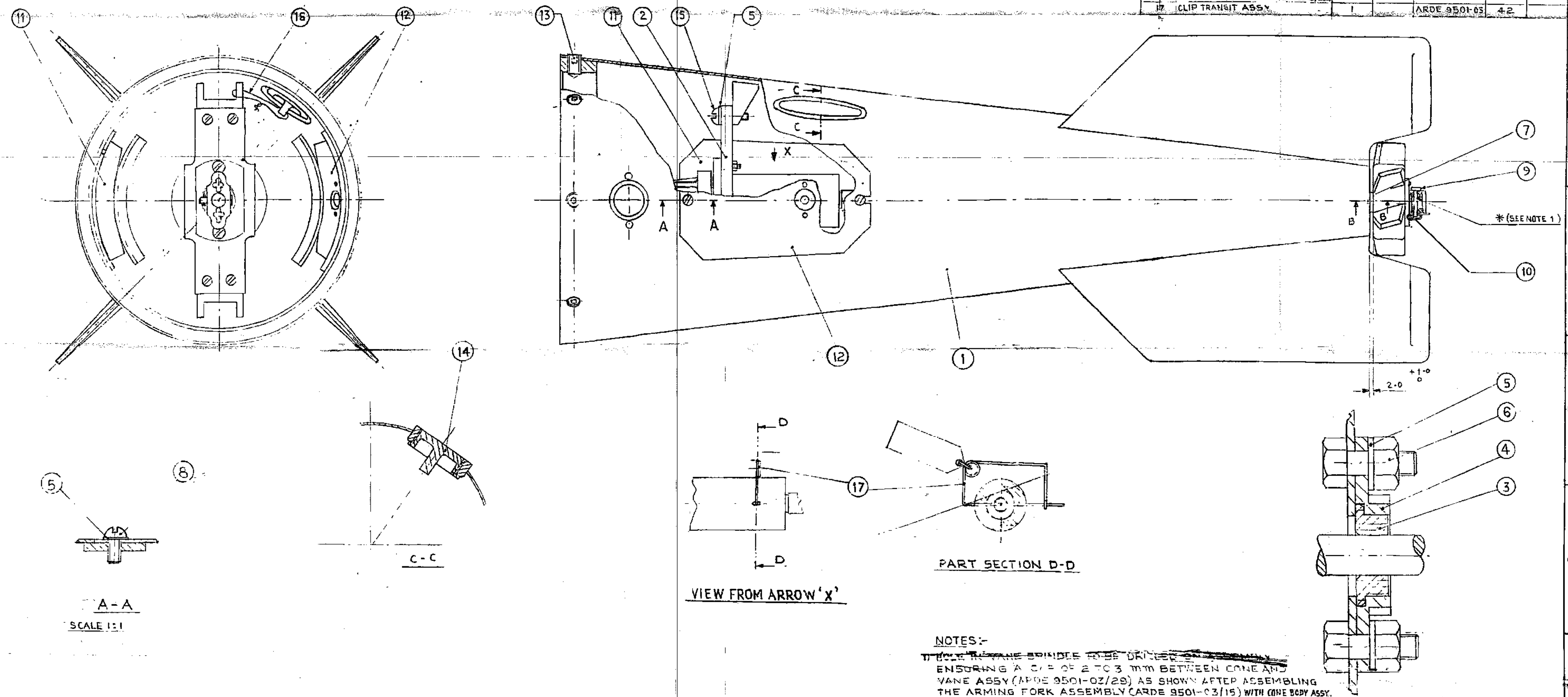
PART No.

D. S. CAT. No.

A.H.S.P.

DRAWING CONVENTIONS CONFORM TO IS:	
DIMNS ARE IN mm. UNLESS OTHERWISE STATED	
GEN. TOL./MEDIUM/ CLASS TO IS: 2107	
DET. No.	9501-03
SHTS.	1
DRG. No.	ARDE 9501-03

LIST OF COMPONENTS						
ITEM No.	NOMENCLATURE	No.OFF	MATL	DRG. No.	DET. No.	PART No.
1	CONE BODY ASSY (PAINTING & STENCILING)	1		ARDE 9501-03	1	
2	ARMING FORK ASSY	1		" " "	15	
3	SPINDLE BEARING	1		" " "	27	
4	SPINDLE BEARING HOUSING	1		" " "	28	
5	SPRING LOCK WASHER M6-15-3065	12		N.D.		
6	FLUSH PEEK PLATED	4		N.D.		
7	HEX NUT M6X1-15-1364 (PART 3)-B	4		N.D.		
8	VANE ASSY	1		ARDE 9501-03	29	
9	ROUND HEX MACHINE SCREW M12-15-1364	4		N.D.		
10	PIN VANE	1		ARDE 9501-03	32	
11	CLIP RETAINING	1		" " "	33	
12	PANEL I	1		" " "	34	
13	PANEL II & ARMING WIRE GUIDE ASSY	1		" " "	35	
14	STUD	8		" " "	38	
15	ADAPTOR BLANKING	1		" " "	39	
16	ROUND HEX MACHINE SCREW M12-15-1364	4		N.D.		
17	STAINLESS STEEL WIRE Ø 0.5 111 10 X 200 MM LONG TO IS: 6528 ANY 16° 15° 30° 45° 60°	1		N.D.		
18	CLIP TRANSIT ASSY	1		ARDE 9501-03	42	



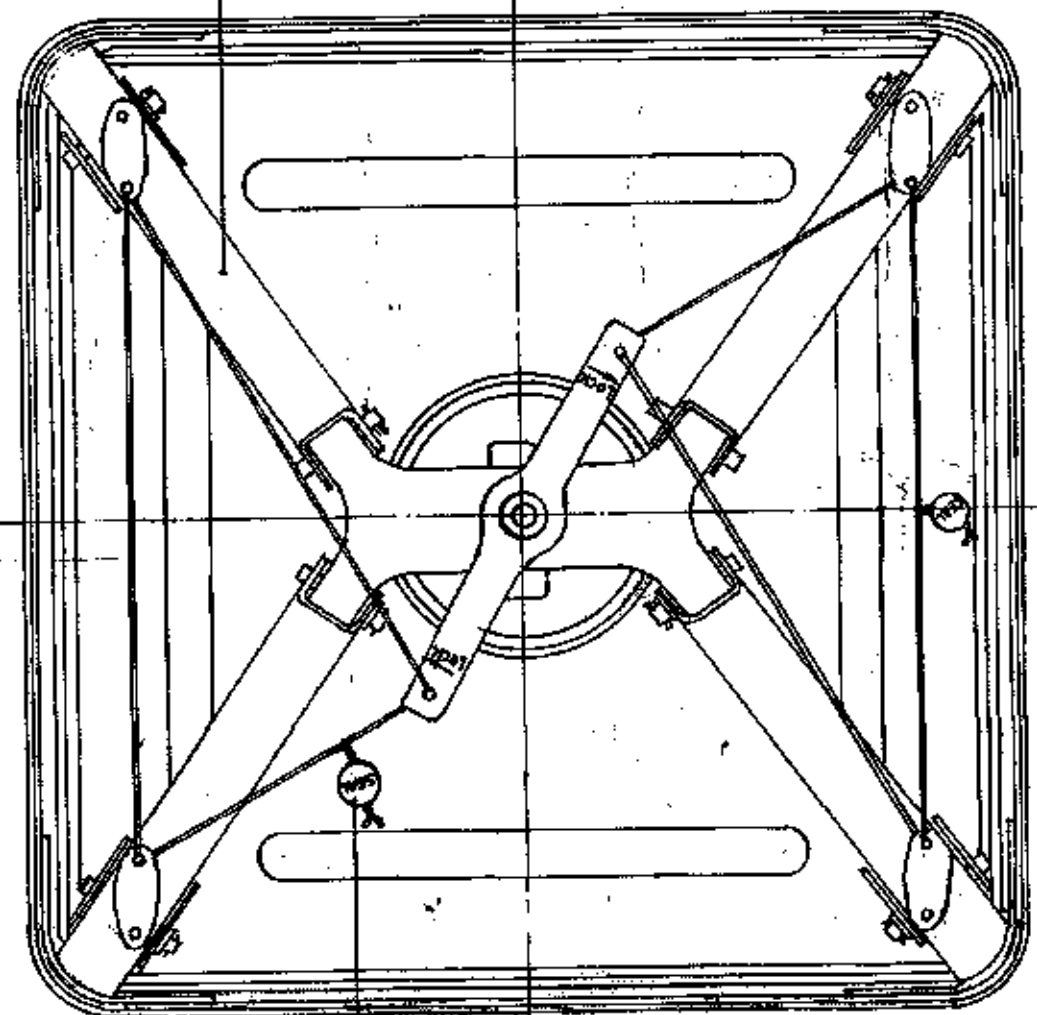
NOTES:-

- 1) VANE & VANE SPINDLE RINGS DRILLED ON CONE ENSURING A GAP OF 2 TO 3 MM BETWEEN CONE AND VANE ASSY (ARDE 9501-02/29) AS SHOWN AFTER ASSEMBLING THE ARMING FORK ASSEMBLY (ARDE 9501-03/15) WITH CONE BODY ASSY.
- 2) ALL STANDARD COMPONENTS (EXCEPT ITEM No. 16) TO BE CADMIUM PLATED TO IS: 1572, C412, BEFORE ASSY.
- 3) GREASE TO IS: 507 TO BE APPLIED IN TAPPED HOLES OF CONE RING AND FLEXIBLE DRIVE ADAPTOR BEFORE ASSEMBLY OF STUDS (ITEM No. 14) AND ADAPTOR BLANKING (ITEM No. 15).

R. NO.		DATE		AUTHORITY		BRIEF RECORD		ZONE		CD		GD		MATERIAL		PROTECTIVE FINISH	
DRG. No.		9501-03		DET. No.		1		SHTS.		1		SHT. No.		D.S. CAT. No.		A.N.S.P.	

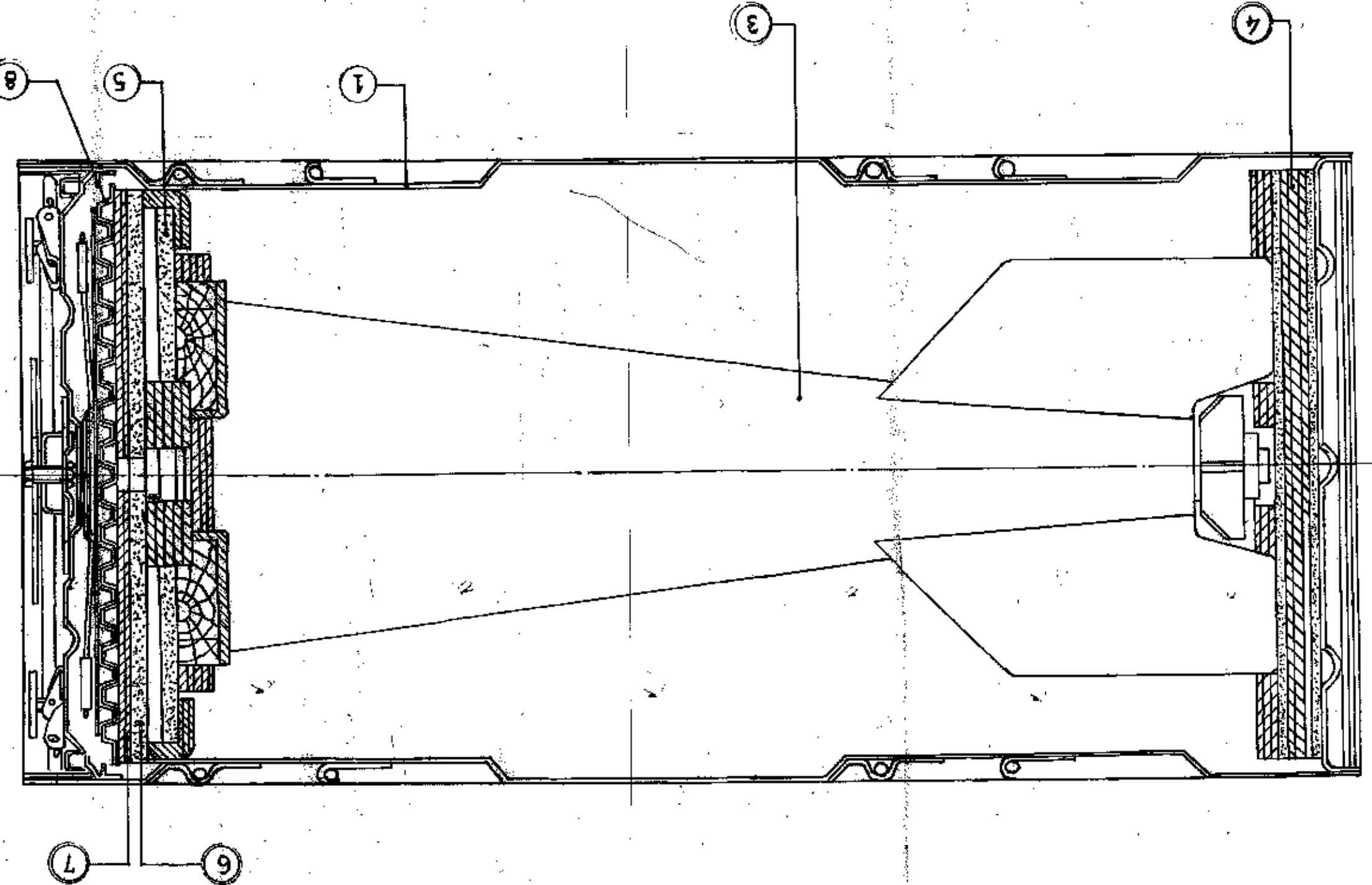
TAIL UNIT No. TB-250

DRAWING CONVENTIONS CONFORM TO IS: 696	
DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED	
GEN TOL: MEDIUM (COARSE) FIN: CLASS 5 TO IS: 2012	
DRG. NO.	ARDE 9501-05
DET. NO.	SHT-5
PART NO.	SHTS 3



WHEN PACKED AFTER PUTTING IN PACKERS LABEL WIRE STEEL SOFT GALVANISED Ø1 OR 1.25 X 650 LONG TO SPEC. 151.280. TO BE PASSED THROUGH HOLES TWISTED AND SEALED WITH SEAL LEAD Ø10 WHICH IS STAMPED WITH INSPECTOR'S MONOGRAM. THE ENDS OF WIRE TO BE LEFT LONG ENOUGH TO ENABLE UNTWISTING BY HAND.

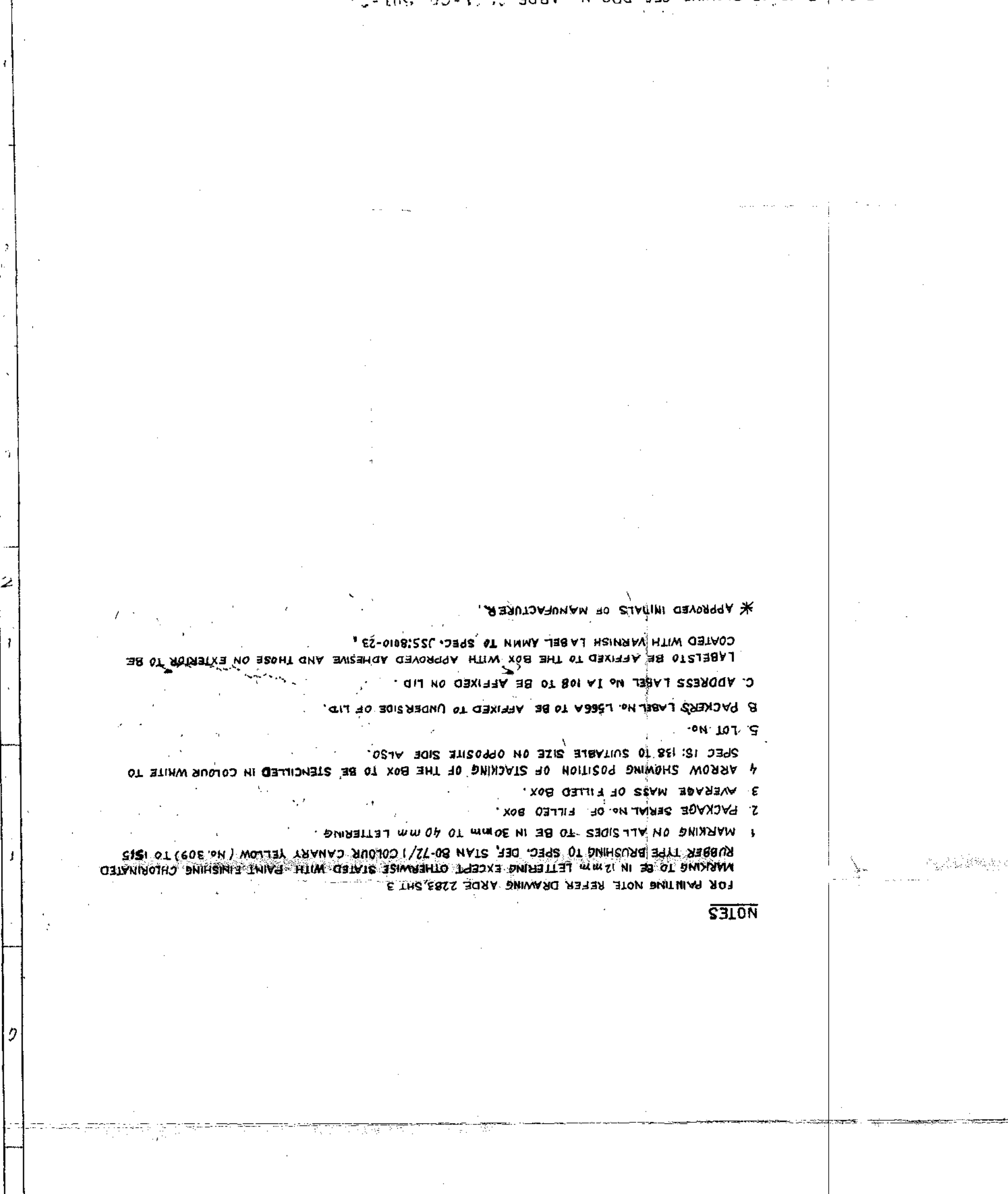
MATERIAL FOR:-
 ITEM NO. ①
 PLYWOOD TO SPEC. IS 1303 - 89 GRADE: BWS. TO BE COATED ALL OVER WITH SMC/LAC VARNISH APC-224 OR APC-225 TO SPEC. JSS: 8010-63



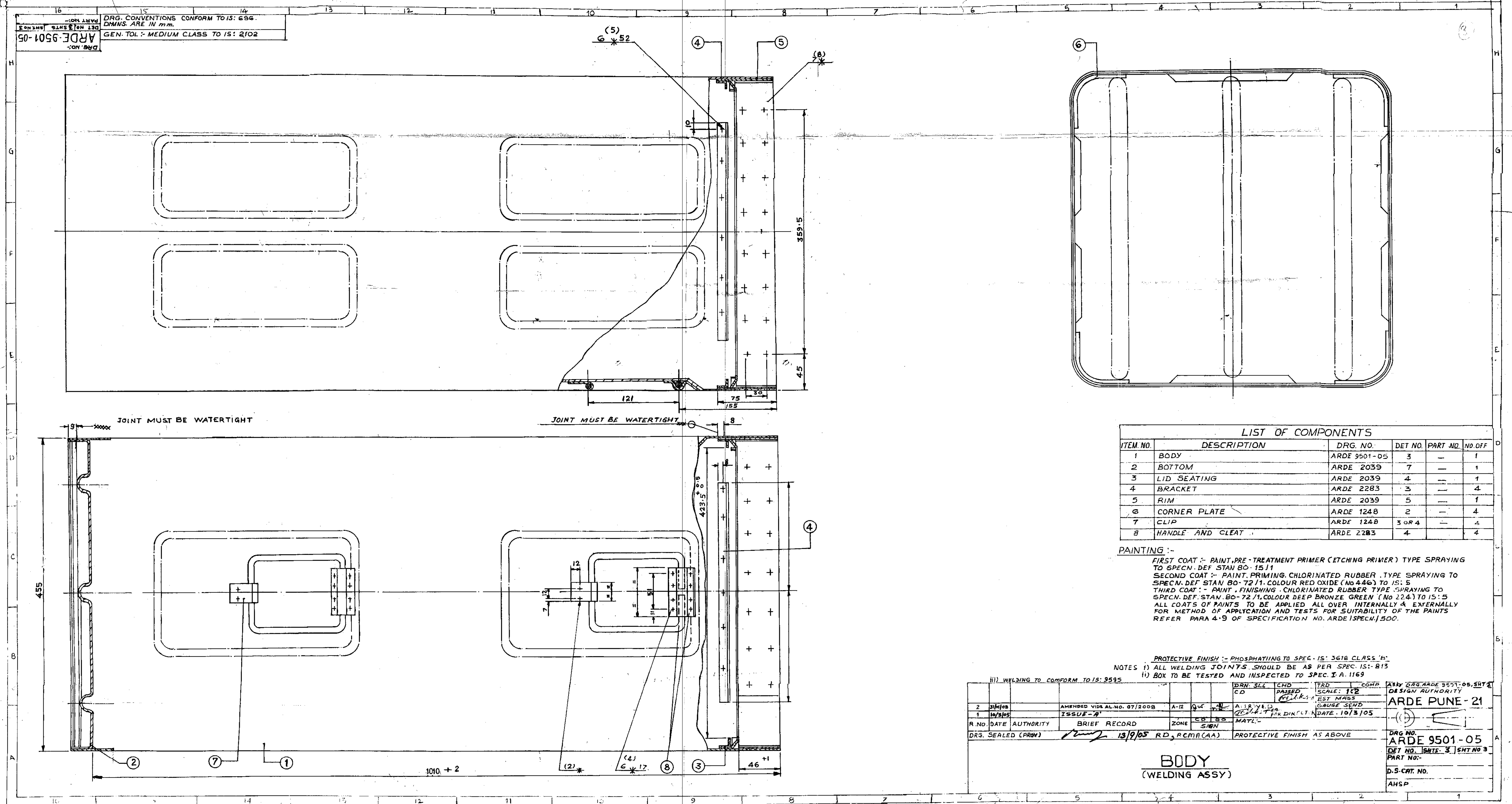
ITEM NO.	DESCRIPTION	DRG. NO.	PRT NO.	PART NO. MO. OFF.
1	BODY (WELDING ASSY)	ARDE 9501-05	SHT-5	1
2	SEALING LID ASSY	ARDE 2039	SHT-4	1
3	TAIL UNIT NO TB-250 FOR BOMB 250KG HSLD.	ARDE 9501-03		1
4	PIECE PACKING BOTTOM	ARDE 9501-05	1	1
5	PIECE PACKING TOP-I	ARDE 9501-05	2	1
6	PIECE PACKING TOP-II SIZE: 420 X 420 X 12 THK. Ø25 HOLE AT CENTRE	ND		1
7	PIECE PACKING TOP-III SIZE: 420 X 420 X 10 THK. Ø25 HOLE AT CENTRE	ND		1
8	INNER LID ASSY	ARDE 2283	SHT-4	1

FOR METHOD OF PAINTING & STENCILLING SEE DRG. NO. ARDE 9501-05, SHT-1

DRG. NO.		ARDE 9501-05	
DET. NO.		SHTS 3	
PART NO.		SHT NO. 2	
BOX STEEL NO. 1 MK 1 TO HOLD ONE TAIL UNIT NO. TB 250			
METHOD OF PACKING FOR			
DRG. NO. (SEE)			
SHT-1			
SHT-2			
SHT-3			
SHT-4			
SHT-5			
SHT-6			
SHT-7			
SHT-8			
SHT-9			
SHT-10			
SHT-11			
SHT-12			
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SHT-99			
SHT-100			



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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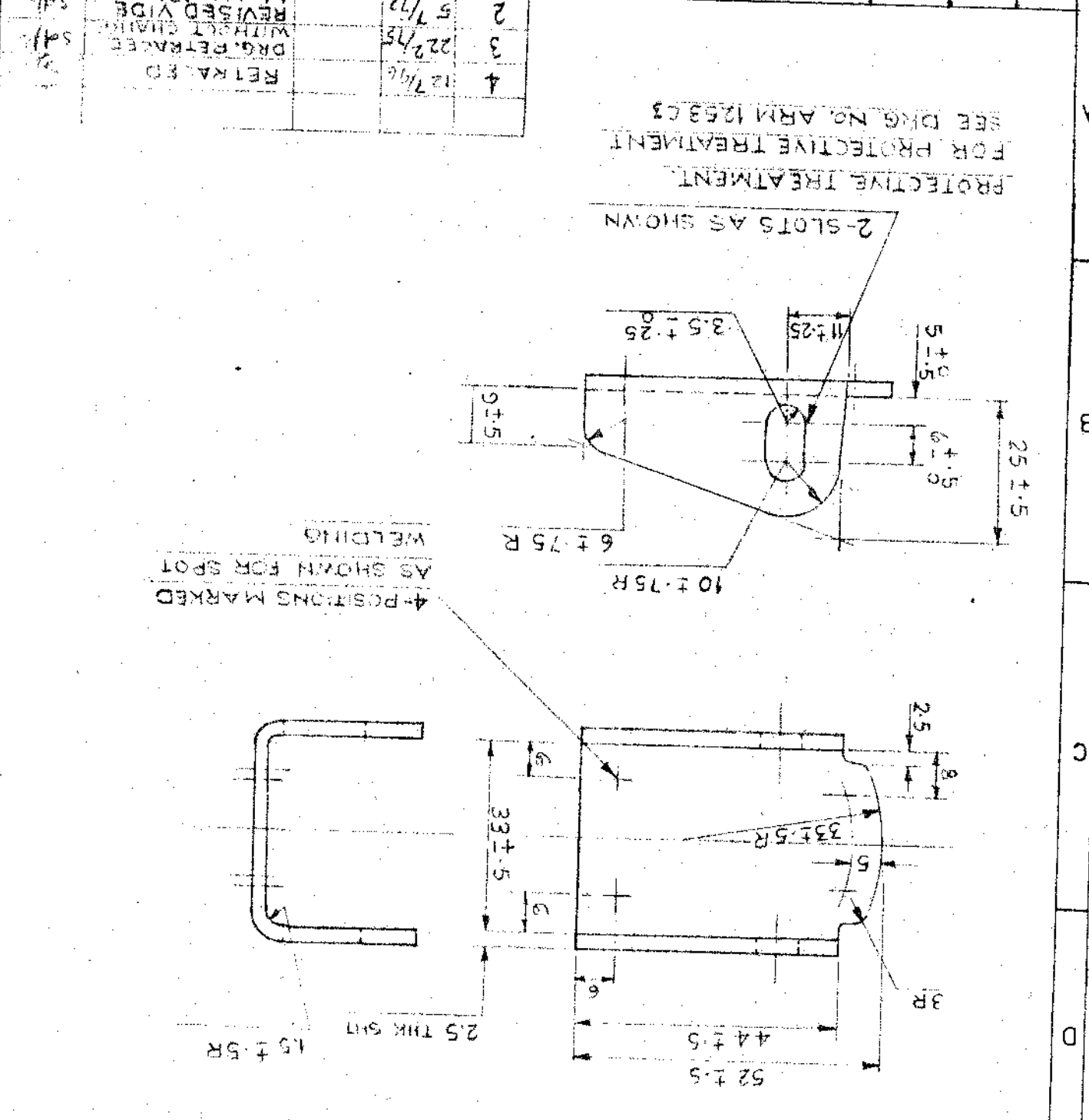
LIST OF COMPONENTS						
ITEM NO.	DESCRIPTION	DRG. NO.	DET NO.	PART NO.	NO OFF.	
1	BODY	ARDE 9501-05	3	—	1	
2	BOTTOM	ARDE 2039	7	—	1	
3	LID SEATING	ARDE 2039	4	—	1	
4	BRACKET	ARDE 2283	3	—	4	
5	RIM	ARDE 2039	5	—	1	
6	CORNER PLATE	ARDE 1248	2	—	4	
7	CLIP	ARDE 1248	3 OR 4	—	4	
8	HANDLE AND CLEAT	ARDE 2283	4	—	4	

PAINTING :-
FIRST COAT :- PAINT,PRE - TREATMENT PRIMER (ETCHING PRIMER) TYPE SPRAYING TO SPECN. DEF. STAN 80-15/1
SECOND COAT :- PAINT,PRIMING, CHLORINATED RUBBER, TYPE SPRAYING TO SPECN. DEF. STAN 80-72/1, COLOUR RED OXIDE (NO 446) TO 15:5
THIRD COAT :- PAINT, FINISHING, CHLORINATED RUBBER TYPE SPRAYING TO SPECN. DEF. STAN. 80-72/1, COLOUR DEEP BRONZE GREEN (NO 224) TO 15:5
ALL COATS OF PAINTS TO BE APPLIED ALL OVER INTERNALLY & EXTERNALLY FOR METHOD OF APPLICATION AND TESTS FOR SUITABILITY OF THE PAINTS REFER PARA 4.9 OF SPECIFICATION NO. AR.15 SPECN./500.

PROTECTIVE FINISH :- PHOSPHATING TO SPEC. IS: 3618 CLASS 'B'

NOTES 1) ALL WELDING JOINTS SHOULD BE AS PER SPEC. IS: 813
ii) BOX TO BE TESTED AND INSPECTED TO SPEC. I. A. 1169

11) WELDING TO CONFORM TO IS: 9595				DRG. SLE CHD		TRD COMP		ARJ DRG ARDE 9501-05, SHT 2	
				CD PASSED		SCALE: 1:2		DESIGN AUTHORITY	
				A.I.R. VELD		EST MASS		ARDE PUNE - 21	
2	31/10/08	AMENDED VIDAL NO. 07/2008	A-12	QW	4	GAUGE SEND			
1	10/3/05	ISSUE - A	CB ES		DATE: 10/3/05				
R.NO. DATE AUTHORITY		BRIEF RECORD		ZONE		MATE'L			
DRG. SEALED (PROV)		13/9/05 RD, PCMB(AA)		PROTECTIVE FINISH		AS ABOVE		DRG NO. ARDE 9501-05	
								DET NO. SHTS: 3 SHT NO 3	
								PART NO:	
								D.S. CAT. NO.	
								AHSP	



R.NO	DATE	ZONE	BRIEF RECORD	PROV SEALED	DATE	INITIAL	DIMENSIONS ARE IN MM.	MATL. SPEC.	STEEL IS: 1079	SEC. REF. NO.	Gauge. SCHED. NO.	DRG. LIST. NO. ARM 1253	TITLE: —	APPROVED	DRG. NO.	ARM 1253 A5
1	20/15															
2	5/12															
3	22/15															
4	12/16															

SCALE: 1:1

TOL: -TOL. EXCEPT WHERE OTHERWISE STATED TO IS: 2102 (MED)

COMP.

TCD 12/7/48

CHD 12/7/48

DRN

DGN

DATE

INITIAL

DRG. LIST. NO. ARM 1253

Gauge. SCHED. NO.

SEC. REF. NO.

MATL. SPEC.

STEEL IS: 1079

SEC. REF. NO.

MINISTRY OF DEFENCE

D.T.D. & P. (AIR)

(23)

RESTRICTED

A. R. D. E. 141

ए. आर. डी. ई १४१

प्रतिलिपी संख्या

Copy No. _____



भारत सरकार

Government of India

रक्षा मंत्रालय

Ministry of Defence

अनुसंधान तथा विकास संगठन

Research & Development Organisation

गु. यो. स. अनुभाग

O. P. C. SECTION

आ. नि. सहायक जवाहरपुर

O. F. K. JABALPUR

पत्र संख्या

दिनांक 3.12.14

Red. 1/2000
AQAW New Delhi

L NO. 512/DGAQA

/ARMT DT-24 Nov. 14

ARDE/SPECN/613

SPECIFICATION

FOR

MANUFACTURE, ASSEMBLY AND QUALITY ASSURANCE

OF

TAIL UNIT NO. TB250

Issued By

आयुध अनुसंधान तथा विकास संस्थापन, पाषाण, पुणे ४११०२१

ARMAMENT RESEARCH & DEVELOPMENT ESTABLISHMENT

PASHAN, PUNE - 411021.

RESTRICTED

MINISTRY OF DEFENCE
RESEARCH & DEVELOPMENT ORGANISATION
SPECIFICATION
FOR
MANUFACTURE, ASSEMBLY AND QUALITY ASSURANCE
OF

TAIL UNIT NO. TB250

0. FOREWORD

0.1 This specification is the property of the Ministry of Defence and must be returned to the Department from which it is issued immediately after the tender has been declined or on completion of the contract or on demand.

0.2 This specification or any other information issued in connection therewith may only be given for specific enquiries, tenders or orders placed by a competent authority on behalf of the Ministry of Defence. It is not to be used for any other purpose whatsoever without the express written sanction of the DGQA, New Delhi. Any enquiries regarding this specification should be addressed to the Inspecting Authority named in the tender or contract. This specification is:

Issued by :

The Director
Armament Research & Development Establishment
Research & Development Organisation
Ministry of Defence
Pashan, PUNE - 411 021

Sealed by :

The Chief Resident Engineer (AA)
Regional Centre for Military Airworthiness(AA)
Ministry of Defence
Pashan, PUNE - 411 021

Obtainable from :

The Director
Directorate General Aeronautical Quality Assurance
Ministry of Defence
DMQ PO NEW DELHI - 110 011

1. SCOPE

1.1 This specification governs the manufacture, assembly and quality assurance of Tail Unit No. TB250 consisting of Tail Cone and Arming Mechanism.

2. DOCUMENTS

2.1 **Applicable document** - The following documents of issue in effect on date of invitation for bids or request for proposal, or finalising the contract form a part of this document to the extent specified herein:

Drawing - ARDE 9501-03 - Tail Unit No. TB250
- ARDE 1947 Det 73 - Kit Arming and Fuzing

2.2 **Related document** -

Drawing - ARDE 9501-05 - Package for Tail Unit No. TB250

2.3 Copies of drawings and specification required can be obtained from the agency mentioned under "Obtainable from" at 0.2 or as directed by the contract.

3. TERMINOLOGY

3.1 For the purpose of this document, the following terms and their explanations shall apply.

3.2 **Item** - The individual component of the Tail Unit No. TB250 including standard component such as screw etc.

3.3 **Store** - The resulting final product on assembly/integration of individual items governed by applicable document, being Tail Unit No. TB250.

3.4 **Lot** - The term lot used here and elsewhere in applicable document shall be understood to be defined as an essentially homogeneous collection of units of products from which representative sample (see below) is drawn and inspected to determine conformance with applicable requirements. Homogeneity shall be considered to exist provided the lot has been produced by one manufacturer, in one unchanged process in accordance with the same drawing, same drawing revision, same specification and same specification revision. Change to the process, specification or drawing, not affecting safety, performance, interchangeability or storage, as determined by the inspection agency, shall not be deemed to alter the homogeneity of an inspection lot.

3.5 **Lot Size** - The number of items in a lot is taken to be 200 for the purpose of mechanical testing. However, no restriction is imposed on lot size of items offered for inspection as long as items constituting the lot satisfy the characteristics of lot

mentioned at para 3.4.

3.6 Sample - Group of items drawn at random from a lot under consideration. The sample selected shall represent only that quantity of units from which the sample was drawn and shall not be construed to represent any prior or subsequent quantities presented for inspection.

4. REQUIREMENTS

4.1 This specification shall be read in conjunction with drawing no. ARDE 9501-03 and the relevant contract requirements. All parts must be manufactured strictly in accordance with the limits and dimensions thereon and as required by this specification. Any question relating to the drawings or specification should be referred to the Inspection Authority mentioned in the contract.

4.2 No components/parts shall be built up or repaired in any way not provided for by the drawings or this specification unless authorised, in writing, by the indenter or any other agency authorised by the indenter.

4.3 Where the specification or drawing permits a choice of alternative materials, the manufacturer is required to notify the Inspecting Officer, in writing, which of the permitted alternatives he chooses. If the choice of the alternative is changed during the course of manufacture, the manufacturer shall obtain the prior permission of the Inspecting Officer before such a change over.

4.4 The contractor may subcontract the manufacture of subassemblies or part thereof with the prior permission and approval of the Inspecting Officer.

4.5 Whenever reference is made to any specification/document in this specification, the latest issue is implied unless otherwise stated.

4.6 A list of relevant specifications referred to herein is given in Appendix 'A' to this specification.

4.7 Unless otherwise stated in the contract, the contractor is also required to supply all paints, varnishes and other preservatives called for on the drawings or by this specification.

4.8 Any sample which may be supplied to the contractor shall be taken as a general guide to assembly only and not as an indication of workmanship or dimensions.

5. MATERIALS & COMPONENTS

5.1 The tail unit consists of all the components listed in the

schedule of parts issued with the drawing No. ARDE 9501-03 and all must be supplied by the contractor unless otherwise stated in the contract.

5.2 All materials used in the manufacture of the store shall have been accepted as satisfactory by the Inspecting Officer before being taken into use. No mechanical work, heat treatment or other operation which may modify their physical properties may be carried out on the materials after they have been submitted for test, unless so required by the drawings or authorised by the Inspecting Officer.

5.3 Where materials to the specifications called for cannot be obtained, materials to other specifications giving equivalent physical properties may be used if authorised in writing by the Inspecting Officer who may require alternative materials to be subjected to such additional tests as he may direct before acceptance. The Inspecting Officer shall permit such a change in materials or material condition in consultation with and with the approval of RCMA (AA)/ARDE, PUNE.

5.4 All materials used in the manufacture of the store shall comply with the requirements of the material specifications quoted on the relevant drawings.

6. MANUFACTURING PROCESS

6.1 General Workmanship - Machined components are to be finish machined to conform to the surface finish and dimensions called for on the relevant drawings. All rags and burrs are to be removed as they are formed when cutting or drilling operations are carried out on components or assemblies. Failure to do this may result in incorrect functioning of the systems.

6.1.1 The radii of bends in sheets and pressings shall not be less than that shown on the relevant drawings. Cracked components or components which show signs of crack after bending or forming shall be rejected.

6.1.2 All components are to be clean and dry, free from grease or oil of any kind. Where the protective finish or paint has been removed during machining or assembly, the affected area is to be treated locally with the appropriate finish as agreed by the Inspecting Officer.

6.1.3 Rolled, pressed and flow-turned sheet parts shall have uniform curvatures free from tool marks, dents or non-uniform local thickness and other defects.

6.2 Rolling - Cone rolling is to be carried out by means of taper rollers, and taper and final weldings and cone smoothing are to be carried out by means of suitable fixtures/mandrel, duly approved by the Inspecting Officer.

6.3 Casting Arming Fork and Vane are to be manufactured by

means of pressure die casting. Casting parameters such as molten metal temperature, type of die, speed of ladling, die temperature, casting temperature, locking force of die, plunger force, plunger speed, die coolant, die face lubricant and die temperature cycle time etc shall be established to obtain clean and smooth casting free from defects such as void, cracks, cold shut, segregation, inclusions etc, and these parameters on yielding satisfactory castings (vide 10.5.2 and 10.5.3) shall be frozen and maintained throughout the casting process. The allowances for machining, where machining is required, shall be the minimum possible without leaving evidence of cast surface.

6.3.1 Alternatively Arming Fork and Vane may be manufactured by machining from bar stock of specified material.

6.4 Welding

6.4.1 Welding fixtures - Cone Ring, Brackets, End Cover and Fin assemblies are to be welded to the Cone Body using suitable welding fixtures. Necessary welding fixtures shall be designed with utmost care, with the approval of the Inspecting Officer for locating and welding these components without any distortion to obtain the geometric tolerances specified in the drawings.

6.4.2 Fusion Welding - Fusion welding shall be carried out by metallic arc process in accordance with the relevant specifications given in the drawings. All welding operators shall have been checked and approved according to Section 4 of IS:817 as competent to carry out welding with the materials shown in the drawings to produce consistently high quality welds. The welders shall also undergo 'Periodic Control Test' at regular intervals of six months as laid down in the above specification in case the duration of the contract exceeds six months.

6.4.2.1 All fusion welding shall be carried out in such a manner as to ensure that the welds are of good, clean metal, free from cracks, gas holes, slag inclusions and all other impurities. The surfaces of the welds shall have an even contour and regular finish and shall indicate proper fusion with and penetration of the parent metal. Inspection of welding during preliminary, in process and final stages, shall be carried out in accordance with IS:822. All welded components having welds showing cracks or cavities or blow holes shall be rejected. However, with the prior approval of the Inspecting Officer, defective components may be re-welded and re-submitted for approval.

6.4.3 Seam Welding - Fins are to be seam welded as per IS:1261. Approved machines shall be used for seam welding giving adequate control of wheel speed, pressure and current interruptions. Careful attention shall be paid to the shape and width of the tread of the wheel and alignment of the top and bottom wheels. Where necessary, fixtures shall be provided to maintain the components in correct relationship during welding. Great care shall be taken to ensure clean metal surface, free from scales, rust, phosphate coating, paint or dirt. Where components are

phosphated/painted prior to seam welding, the planned weld region shall be marked precisely and the phosphate/paint coating over the region so marked shall be removed by suitable abrasive process. After seam welding is completed, all scales shall be removed from the component over the region of the roller path and this region shall be immediately coated with primer/protective coating specified in the drawing to avoid rusting.

6.5 Pressings - Pressed components are to have bent radii not less than that required by the relevant drawings. Bent and fabricated components of steel sheet which show evidence of cracks after forming are to be rejected.

6.6 Riveting - Only rivets of the specified materials shall be used. All rivet holes shall be drilled to the correct size to suit the rivet being used. All burrs and chips shall be removed from the holes and from the joints in between the components being rivetted.

6.6.1 All rivets shall be formed with full heads. The rivet length called for on the drawings may be varied with the prior consent of the Inspecting Officer.

6.6.2 All driven rivets shall be inspected to ensure that the riveting is satisfactory in all respects. Particular care shall be taken so that the sheets are not damaged or weakened by the riveting and that rivet heads are neither distorted nor cracked. All joints that do not comply with the Inspector's requirements shall be rejected but if authorised by the Inspector, defective rivets may be removed and the rectified components or assembly re-submitted for approval.

6.7 Protective finish- All protective processes are to be carried out in accordance with the specifications quoted in the relevant drawings. Any treated component which is not to the satisfaction of the Inspecting Officer is to be rejected. Rejected components may, with the agreement of the Inspecting Officer, be rectified by the contractor and re-submitted for acceptance.

6.7.1 The paints specified in the drawings are to be applied by spraying. Method of application and tests for suitability of the paints shall be governed by the requirements laid down at Appendix 'B' and Appendix 'C'. Where a multi coat system is specified, the undercoat shall be thoroughly set before the subsequent coat is applied.

6.7.2 All painting operations shall be carried out in clean and dry conditions. Condensation of moisture before and during application shall be avoided and dust excluded. All paints shall adhere firmly and present a smooth coat free from cracks, flaws, and thin patches. Care shall be taken to avoid accumulation of paint at any point. Parts which have to be free from paint shall efficiently be masked in such a way that adjacent painted surfaces are not damaged on removal of the mask.

6.7.3 Stencilling - After stencilling/screen printing, the paint shall be allowed to dry for not less than 72 hours before undertaking packing.

7. QUALITY ASSURANCE PROVISIONS

7.1 General - The Contractor shall offer free of charge all the specimen/test pieces, duly machined, if required, for testing/checking of raw materials and arrange testing/checking of these specimen/test pieces at the testing agency duly approved by the Inspecting Officer. When finished or partly finished stores or components are expended or damaged in tests, re-tests or examinations as stipulated in the specification or elsewhere as a condition of acceptance, the contractor supplying the stores will be required to supply, replace or repair, free of charge, the stores so damaged or expended which become the property of the Government.

7.2 Responsibility of Contractor- The Contractor shall undertake cent percent inspection of the items before offering the same to the Inspecting Officer for acceptance, and maintain detailed records. Contractor's documentation shall include details of raw material source, its mechanical properties and chemical composition. The document shall be comprehensive including the entire raw material flow history with details of successive operations performed on it at his various production facilities. It is the responsibility of the prime contractor to ensure maintenance of such documents by his subcontractor(s) if subcontracting is resorted to. Such documents shall be made available for scrutiny of the Inspecting Officer on demand.

7.2.1 Submission of items/store - At the time of submitting each completed lot of item for acceptance of the Inspecting Officer, the contractor shall supply the following information accompanied by a certificate attesting that the information provided is correct and applicable to the items/store being submitted.

- (a) A statement that the lot complies with all of the quality assurance provisions specified in this and applicable documents.
- (b) A statement that all the materials purchased by the contractor meet the requirements and that certificates of conformance are available for review/scrutiny.
- (c) A statement that only the material, bonded and cleared by the Inspector, is used for the lot of items being offered and that no deviation/change in the process of manufacture as permitted earlier has been made.
- (d) Number of items in the lot.
- (e) Date submitted.

The certificate shall be signed by a responsible agent of the contractor.

7.2.2 The contractor may also submit items with dimensional and geometric deviations for concessional acceptance by the Inspecting Officer. When such request is made, the contractor shall submit along with the details of items and related deviations, causative factors, already identified by him, leading to such deviations along with the details of remedial action. He shall also provide a guarantee that such concessional acceptance shall not be sought by him subsequently. However the acceptance of deviated components will depend on the discretion of Inspecting Officer.

7.3 The Inspecting Officer is at liberty to perform inspection of items for dimensional and geometric feature either on the basis of sampling plan or 100 per cent inspection of items as deemed necessary. Such decision to adopt either of above inspection procedures shall be based on, whether or not, in the opinion of the Inspecting Officer, the items offered for inspection are eligible to qualify to constitute a lot and the production process is sustained to yield consistent quality.

7.4 Gauges and fixtures - During all stages of manufacture and assembly, all components shall be subjected to examination, gauging and, where necessary, testing. The contractor shall supply at his own cost all the necessary gauges as listed in Appendix 'D' and necessary test fixtures as required by this specification. He shall also offer central facilities for inspection of components, if manufactured by various sub-contractors.

8. ASSEMBLY

8.1 Tail Cone Assembly

8.1.1 The Tail Cone assembly has dimensional restrictions and is, therefore, to be built with the aid of assembly fixture which is also to be used to control the geometric tolerances. The fixture required is to be designed by the contractor in consultation with the Inspecting Officer who will approve it.

8.1.2 When the assembly is complete, the Cone Body Welding Assembly shall conform in all respects with the relevant drawing and with the following requirements:-

- (a) The drawing requirements for concentricity, parallelism and squareness of the cone and fins with the datum faces or diameters shall strictly be observed.
- (b) Excessive variation of the cone shape from the nominal right circular conical frustum and

discontinuity in profile of the cone or fins more than that is permissible as per relevant drawings shall be avoided. Correction of irregularity by planishing after welding shall only be allowed by agreement with the Inspecting Officer and by the means approved by him.

- (c) Symmetry of extremity of the fins, the alignment of fins in relation to the longitudinal axis and the angular relation of fins with each other shall be strictly maintained as per the drawing requirements and shall be checked by means of a suitable gauge.
- (d) The working surfaces of all moving parts shall be free from paints and the order of application of the specified finishes shall be arranged to ensure this.
- (e) On the completion of assembly, the cone shall be free from metal particles, swarf, dirt and other foreign bodies. No work shall be done during manufacture or assembly which might result in such metal particles etc., becoming lodged inside the tail cone. Failure to observe this requirement might result in operational failure of the tail unit. The inside diameter of the tail cone ring shall conform to the dimension given on the component drawing after all assembly is complete.

8.2 Arming Fork Assembly

8.2.1 Arming Fork Assembly consists mainly of Bottom Plate, Housing, Fork Spindle, Arming Fork, Bearings and Closing Plugs. After assembly of the Arming Fork Assembly to the tail unit it shall comply with the following requirements:

- (a) After assembly is complete, the gap between the Vane from the rear end of the Tail Unit shall be within the tolerances shown on the drawing.
- (b) The Arming Fork Assembly shall be concentric with the cone axis and shall rotate freely. The concentricity of Arming Fork shall be checked using appropriate apparatus approved by the Inspecting Officer.

9. FUNCTIONAL CHECKS

9.1 General - In addition to dimensional checks of the components as per the relevant drawings, the Tail Cone and Arming Fork Assembly shall be checked in the assembled condition for their functional features and for free rotation of the Arming Fork Assembly.

10. MECHANICAL TESTING

10.1 Samples, test set up and facilities for all the tests specified in this specification shall be provided by the Contractor, free of cost, to the Inspecting Authority.

10.2 **Raw material** - The entire raw material required for the manufacture of the store shall be procured, as far as possible, at one stretch and offered for acceptance by the Inspecting Officer. These materials shall be subjected to the appropriate tests given in the material specification quoted in the drawings together with any specified requirements given thereon. The preparation of test pieces and method of testing for sheets, billets, bars and forgings used in the manufacture of the components shall comply with the conditions laid down in the relevant specifications.

10.3 **Casting** - The Arming Fork and Vane shall be manufactured by pressure die casting.

10.3.1 **Chemical analysis** - At the start of production, the Inspector may, at his discretion, require full chemical analysis of the material taken from the crucible or ladle from which the castings are poured as per IS:504. The number and type of test samples shall be agreed between the Inspecting Officer and the Contractor but after satisfactory control of the material has been achieved, such tests may be omitted, as per the discretion of Inspecting Officer.

10.3.2 **Mechanical tests** - Tensile tests in accordance with IS:1816 shall be carried out on test pieces representing the beginning and end of each cast or of each batch of fifty castings, whichever is applicable. If either of these test pieces fails to meet the specification requirements, two further test pieces representing the same cast or batch shall be selected. If any one of these test pieces fails to meet the requirements, the castings represented thereby shall be rejected. When the Inspecting Officer considers that satisfactory control of the casting process has been achieved, he may, at his discretion, reduce the number of tensile tests to not less than 0.25% of the castings produced with a minimum of two.

10.4 **Tail Cone** - Minimum qty. 8 tail cones from each lot of 200 or less with all the welding operations completed and without painting, shall be subjected to liquid penetrant test as per IS:822 and IS:3658 for detection of surface defects such as surface cracks and blow holes, along the welded surface. The test shall be carried out on tail cones as soon as all welding operations are completed. All the sample tail cones shall be free from the above surface defects. If any one tail cone exhibits surface defect on its welded portions, the entire lot of tail cones shall be subjected to liquid penetrant test and the tail cones with weld surface defects shall be segregated. These defective tail cones may be rectified and re-welded, with the permission of the Inspecting Officer and submitted for subsequent liquid penetrant test.

10.5 Load Test

10.5.1 Tail Cone Assembly - Minimum quantity of two Tail Cone Assemblies, selected at random, from each lot of 200, complete in all respects without painting shall be subjected to load test as outlined in Appendix 'E'. The Tail Cone Assembly shall have been checked for absence of weld surface defects. The Tail Cone Assembly shall be attached to the fixture having the profile of the bomb base, as shown in the above appendix, with the help of 8 Studs. A uniformly distributed load of 5500 N (2750 N on each fin) shall be applied simultaneously to both of two diametrically opposite fins, kept parallel to the ground. The load may be applied hydraulically, pneumatically or by means of suspended dead weights or by any other means approved by the Inspecting Officer, at the specified location and sustained for a period of 15 minutes. The fins deformed by 11 mm at the edge. Upon removal of the load, the deflection (permanent set) of each fin, measured perpendicular to and from the initial plane of symmetry of the fin at the specified location 'Z', shall not exceed 5 mm. In case the deflection exceeds 5 mm, a further random sample of 2 Tail Cone Assemblies from the same lot, free from weld surface defects, shall be subjected to load test. Deflection of any fin exceeding 5 mm at location 'Z' in any of the tail cones under test shall entail rejection of the entire lot of 200 Tail Cone Assemblies. Fracture of any fin during load testing at any stage shall also result in total rejection of the lot under question.

10.5.2 Vane - The vane shall be subjected to the following tests:

10.5.2.1 Spin test - At the commencement of production, first 5 Vanes shall be subjected to spin test by revolving each Vane at 8000 rpm for a period of 5 minutes in suitable fixture coupled to an electric motor. Though the motor characteristics are unimportant, it is essential that the duration of spin of 5 minutes shall be reckoned from the instant the motor attains the above specified rpm. Due safety precaution shall be taken to arrest any disintegrated pieces flying away from the revolving Vane. Any physical disintegration of any part of the Vane or any sign of impending disintegration, manifested by the presence of cracks, detected visually or under a magnifying apparatus (power of magnification min. 15), shall result in rejection of the entire lot of Vane represented by the samples.

10.5.2.2 Shear test - The entire samples of Vane which have undergone spin test satisfactorily, shall be subjected to shear test in a universal testing machine using the fixture described in Appendix 'F'. Each Vane shall withstand a minimum load of 20 KN. Failure of any one sample to meet the above load requirement shall result in non-approval of casting technique by the Inspecting Officer. The Contractor is required to re-assess/match the casting parameters (vide para 6.3) and offer fresh samples.

is Amended vide RCMA (AA) Letter No
RCMA (AA)/4-10/5/Tech dt. 29.11.10

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10.5.2.3 When the casting process has been stabilised and satisfactory results obtained, 3% of the total quantity of the Vanes produced with a minimum of 3 and a maximum of 12, whichever is higher, shall be subjected to spin test followed by shear test. The samples shall be so selected at random so as to represent the first, middle and last casting of each batch. Upon failure of any one of the Vanes in any of the above tests, a second sample of the same size shall be tested and if any of the second sample also fails, the entire lot of Vanes represented by the above sample shall be rejected.

10.5.3 Arming Fork - A sample 3% of the total quantity of the Arming Forks produced, with a minimum of 3 and a maximum of 12, whichever is higher, shall be subjected to load test in a universal testing machine or any other suitable machine by application of loads using the fixture as given in Appendix 'G'. The Arming Fork shall withstand a minimum load of 400 N.

11. MARKING

11.1 Marking and labelling on the Tail Cone Assembly are to be carried out as per relevant drawings.

11.2 All punch markings are to be carried out before applying protective finishes.

12. PACKING AND SUPPLY

12.1 The complete store after inspection and approval of the Inspecting Officer shall be packed by the Contractor in a suitable container/package. It is the Contractor's responsibility to ensure that the stores are delivered without damage.

12.2 The following are to be ensured while packing :-

- (a) During packing the Tail Cone, the Studs shall be screwed fully inside the Cone Ring, to be flush with the tail cone surface.
- (b) The Arming Mechanism shall be kept in the locked condition.

13. APPROVAL FOR INITIAL PRODUCTION

13.1 The manufacturer shall submit a detailed process sheet indicating check points/test stages with gauges, instruments and test set up proposed to be provided by the manufacturer for approval by the Inspecting Officer before commencement of bulk production.

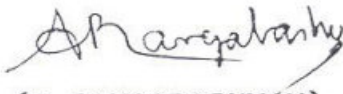
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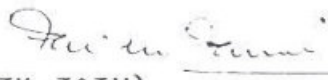
13.2 The Contractor shall also submit one complete unit as per Drawing No. ARDE 9501-03 manufactured by full production tools, jigs and fixtures, to the Inspecting Officer for approval before bulk production is proceeded with. Such approval shall not be given until the store has been examined by Inspecting Officer specified in the contract. No further production may be undertaken by the Contractor until this approval is given.


03/2/2000
(R VIJAYAPPAN)
SCIENTIST 'B'
PROJECT OFFICER

APPROVED


(A RANGABASHYAM)
CMDE
JOINT DIRECTOR (MUNITION-III)

PROV. SEALED BY


(JK JAIN)
SCIENTIST 'E'
CHIEF RESIDENT ENGINEER (AIR ARMT)

19 Apr 2000

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APPENDIX 'A'

LIST OF RELEVANT SPECIFICATIONS

<u>Sl.No.</u>	<u>Specn.No.</u>	<u>Title</u>
1.	IS:5	- Colours for ready mixed paint and enamel
2.	IS:319	- Free cutting brass bars, rods and sections
3.	IS:504	- Methods of chemical analysis of aluminium and its alloys
4.	IS:507	- General Purpose Grease for defence application
5.	IS:549	- Split pins
6.	IS:617	- Aluminium and aluminium alloy ingots and castings for general engineering purposes
7.	IS:733	- Wrought aluminium and aluminium alloy bars, rods and sections for general engineering purposes
8.	IS:738	- Wrought aluminium and aluminium alloy sheet and strip for general engineering purposes
9.	IS:813	- Scheme of symbols for welding.
10.	IS:817	- Code of practice for training and testing metal arc welders.
11.	IS:822	- Code of procedure for inspection of welds.
12.	IS:1079	- Hot rolled carbon steel sheets and strips
13.	IS:1261	- Code of practice for seam welding in mild steel.
14.	IS:1363(Pt2)-	Hexagon head screw
15.	IS:1364(Pt3)-	Hexagon nut
16.	IS:1365	- Slotted countersunk head screw
17.	IS:1367(PtV)-	Technical supply conditions for threaded steel fasteners-Mechanical properties and test methods
18.	IS:1572	- Electroplated coating of cadmium on iron and steel.
19.	IS:1608	- Mechanical testing of metals-tensile testing

APPENDIX 'A' (contd)

20.	IS:1868	-	Anodic coating on aluminium and its alloys
21.	IS:2004	-	Carbon steel forgings for general engineering purposes
22.	IS:2016	-	Punched washer
23.	IS:2062	-	Steel for general structural purposes
24.	IS:2907	-	Non ferrous rivets
25.	IS:2998	-	Cold forged steel rivets for cold closing
26.	IS:3063	-	Single coil rectangular section spring lock washers
27.	IS:3618	-	Phosphate treatment of iron and steel for protection against corrosion.
28.	IS:3658	-	Code for practice for liquid penetrant flaw detection.
29.	IS:4218	-	ISO metric screw threads.
30.	IS:4454	-	Steel wires for cold formed springs.
31.	IS:5988	-	Spring dowel sleeve
32.	IS:6094	-	Hexagon socket set screws
33.	IS:6528	-	Stainless steel wire
34.	IS:6603	-	Stainless steel bars and flats
35.	IS:9595	-	Recommendations for metal arc welding of carbon and carbon manganese steels.
36.	DEF STAN 80-15/1	-	Paint, Pre-Treatment Primer (Etching Primer)
37.	DEF STAN 80-72/1	-	Paint System Chlorinated Rubber
38.	ASTM D 1712 - 96	-	STANDARD SPECIFICATION FOR POLYTETRAFLUOROETHYLENE (PTFE) RCD AND HEAVY WALLED TUBING

Amended vid: ARDE ltr no ARDE/7/1/85 Tech Air dt 23/6/2001
and RCMA(AA)/1440/5/Tech ltr dt 27th Sep 2001

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23/10/01

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23/10/01

APPENDIX 'B'

METHOD OF APPLICATION OF
CHLORINATED RUBBER PAINT SYSTEM

1. PAINT SYSTEM

First coat : Paint, Pre-treatment Primer (Etching Primer)
Second coat : Paint, Priming, Chlorinated Rubber
Third coat : Paint, Finishing, Chlorinated Rubber

2. SPECIFICATION

2.1 Paint, Pre-treatment Primer (Etching Primer) shall conform to DEF STAN 80-15/1.

2.2 Both Chlorinated Rubber Paints shall conform to requirement of specification DEF STAN 80-72/1 as well as " Test for ascertaining suitability of Chlorinated Rubber Paints with cadmium plated components" (Appendix 'C'). While procuring paints, mode of application (brushing/spraying) should be specified.

3. SURFACE PREPARATION

3.1 The surface should be cleaned to remove old deposits and abraded with zero grade emery paper. Finally it should be cleaned with 2% solution of Labolene (M/s. Glaxo India Ltd.) in water and rinsed with fresh water. After thorough drying, first coat of paint system shall be applied. In no case, cleaned surface shall be left overnight without application of first coat.

4. MODE OF APPLICATION

4.1 Paints shall be applied as per mode of application mentioned in the specification while procuring the paint.

5. INTERVAL BETWEEN TWO COATS

5.1 A maximum of 24 hours is allowed between first and second coats. There is no maximum time limit for application of third coat. Surface should be cleaned to remove dust etc before application.

6. DRYING PERIOD

6.1 After application of third coat, the painted components shall be dried for a minimum period of 72 hours in dust free environment.

APPENDIX 'C'

TEST FOR ASCERTAINING SUITABILITY OF
CHLORINATED RUBBER PAINTS WITH CADMIUM PLATED COMPONENTS

1. SCOPE

The test prescribes the method for ascertaining suitability of Chlorinated Rubber Paint System (as per specification DEF STAN 80-72/1). A cadmium plated specimen is kept for 10 days in a closed container which has been freshly painted internally with the above paint system.

2. MATERIALS

- (a) A container with lid made from burnished mild steel or aluminium, capacity , 1 litre - 2 Nos.
(Paint containers, 1 litre, are considered suitable for this purpose).
- (b) Cadmium plated mild steel specimen, 6 mm dia x 20 mm long, plating thickness , 10-15 microns - 2 Nos.

3. PROCEDURE

3.1 Apply the Paint System, one coat of Etch Primer, one coat of Chlorinated Rubber Primer followed by one coat of Chlorinated Rubber Finishing Paint to the internal surface of one container at an interval of 24 hrs. Painted surface should be allowed to dry for 48 hrs.

3.2 Store cadmium plated specimen in a watch glass (uncovered), one each in painted and unpainted containers with tightly closed lid for a period of 10 days.

3.3 At the end of test period, specimen from each container is removed carefully. If the specimen, kept in painted container, does not show white deposit on its surface and has appearance similar to the specimen kept in unpainted container, the Paint System is considered suitable for use on containers / components along with cadmium plated parts.

APPENDIX 'D'GAUGE SCHEDULE FOR TAIL UNIT NO. TB250

1. TAIL UNIT No.TB 250 (DRG. NO. ARDE 9501-03)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	2 + 1	D2	Limit Gauge

2. CONE BODY ASSEMBLY PAINTING & STENCILING DRAWING
(DRG No. ARDE 9501-03 DET No.1)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	Stencilling/Screen Printing		Visual

3. CONE BODY WELDING ASSEMBLY (DRG No. ARDE 9501-03 DET No.2)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	13	F12	Limit Gauge
2	Ø 249 + 0.2	D12	Plug Go/No Go Gauge
3	M12 x 1.75 - 6H	F11	Thread plug Go/No Go Gauge
4	20	D9 & D11	Limit Gauge
5	216 ± 0.5	C11	-do-
6	157 ± 0.2	D10	-do-
7	22 deg 30'	G10	Fixture
8	Angular location of fins	B4 to G4	-do-
9	450	E1	Limit Gauge
10	M6 X 1	C9	Thread plug go/No Go Gauge
11	All geometrical features	-	Fixture

4. CONE BODY (DRG No. ARDE 9501-03 DET No.3)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	800	D4	Limit Gauge
2	120.0	D5	Limit Gauge
3	Ø282.0-0.1	E6	Snap Go/No Go Gauge
4	1.6	E5	Limit Gauge
5	70.0	E5	Limit Gauge
6	Window Dimensions	C7	Die and Punch
7	259	C5	Limit Gauge
8	Ø65	B5	Plug Go/No Go Gauge
9	Ø35.5	E5	-do-
10	Ø3.1	D1	-do-
11	55 deg ± 30'	D8	Fixture

Appendix 'D'(contd)

5. CONE RING ASSEMBLY (DRG No. ARDE 9501-03 DET No.4)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	5 ± 0.5	E7	Limit Gauge

6. CONE RING (DRG No. ARDE 9501-03 DET No.5)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	∅ 278.7-0.2	D4	Snap Go/No Go Gauge
2	∅ 249 + 0.2	D3	Plug Go/No Go Gauge
3	35.0	F4	Limit Gauge
4	7 deg 30'	E3	Profile Gauge
5	30	E2	Limit Gauge
6	∅ 6.0 +0.01	E1	Plug Go/No Go Gauge
7	∅ 4.2+0.1	D2	-do-
8	6.5	D1	Limit Gauge
9	2x45 deg	C4	Visual

7. LOCATING PIN (DRG No. ARDE 9501-03 DET No.6)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	∅6.02 -0.01	C3	Snap Go/No Go Gauge
2	18.0 -0.2	B3	Limit Gauge
3	12.0+0.2	B3	Limit Gauge
4	∅4.2-0.1	B3	Snap Go/No Go Gauge
5	1x45 deg	B2	Visual

8. END COVER (DRG No. ARDE 9501-03 DET No.8)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	∅20	D7	Plug Go/No Go Gauge
2	2.0	C7	Limit Gauge
3	17 -0.1	C7	Limit Gauge
4	7 deg 30'	E6	Profile Gauge
5	∅6.2+0.1	E3	Plug Go/No Go Gauge
6	∅ 45.0	E3	Position Gauge

9. PANEL SUPPORT LARGE (DRG No. ARDE 9501-03 DET No.9)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	4.0	C8	Limit Gauge
2	30	C7	-do-
3	160.0	D8	-do-
4	R 125	E4	Radius Gauge

Appendix "D"(contd)

5 R 121 E2 Radius Gauge

10. PANEL SUPPORT SMALL (DRG No. ARDE 9501-03 DET No.10)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	4.0	C8	Limit Gauge
2	30	C7	-do-
3	120.0	D7	-do-
4	R 101	E4	Radius Gauge
5	R 97	E2	-do-

11. BRACKET (DRG No. ARDE 9501-03 DET No.11)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	25	E5	Position Gauge
2	40	F4	Limit Gauge
3	30	F4	Position Gauge
4	35	E3	Limit Gauge
5	45	E3	--DO--
6	15	D3	--DO--
7	25	C3	--DO--
8	7 deg 30' ± 30'	C3	Profile Gauge
9	M6	E5	Thread Plug Go/No Go Gauge

12. FLEXIBLE DRIVE ADAPTER (DRG No. ARDE 9501-03 DET No.12)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	64.5	C7	Limit Gauge
2	14	F4	--DO--
3	9	E4	--DO--
4	ø88	D5	Snap Go/No Go Gauge
5	ø64.5-0.5	D4	--DO--
6	M56x2-6H	D4	Thread Plug Go/No Go Gauge
7	7 deg 30'	C4	Profile Gauge

13. FIN LEFT (DRG No. ARDE 9501-03 DET No.13 SHT NO 2)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	360	C6	Limit Gauge
2	7 deg 30'	C5	Profile Gauge
3	60	C4	Limit Gauge
4	190	D3	--DO--
5	8	C5	--DO--
6	1.6	C3	--DO--

Appendix 'D' (contd)

7 53 deg D7 Profile Gauge

14. FIN RIGHT (DRG No. ARDE 9501-03 DET No.13 SHT NO 3)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	360	C4	Limit Gauge
2	7 deg 30'	C4	Profile Gauge
3	60	C5	Limit Gauge
4	190	D6	--DO--
5	8	C4	--DO--
6	1.6	C6	--DO--
7	53 deg	D2	Profile Gauge

15. GROMET (DRG No. ARDE 9501-03 DET No.14)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	ø50	A2	Snap Go/No Go gauge
2	ø28	B2	Plug Go/No Go Gauge
3	R 3.5	B2	Radius gauge
4	ø 34.5	B2	Snap Go/No Go gauge
5	5	B3	Limit gauge
6	7	B4	---do---
7	ø3.1	C1	Plug Go/No Go Gauge
8	44 PCD	C3	Position Gauge

16. ARMING FORK ASSEMBLY(DRG No. ARDE 9501-03 DET No.15)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	5	D3	Limit Gauge

17. HOUSING (DRG No. ARDE 9501-03 DET No.16)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	ø 5	F8	Plug Go/No Go Gauge
2	R 39	E7	Radius Gauge
3	48 A/F	D7	Limit Gauge
4	62	E6	Position Gauge
5	5	E6	Limit Gauge
6	3	E6	-do-
7	28	E4	Position Gauge
8	ø 2.1	D4 & E6	Plug Go/No Go Gauge
9	3	D4 & D6	Position Gauge
10	ø 47.9 ±0.1	D4	Ring Go/No Go Gauge
11	M56 x 1-7H	C4 & C6	Thread Plug Go/No Go Gauge
12	15 ± 0.2	C6	Limit Gauge
13	51 ± 0.2	B5	-do-

Appendix 'D'(contd)

14	47 ± 0.2	B5	Limit Gauge
15	125	B5	Limit Gauge
16	30	B4	-do-
17	20 + 0.2	B4	-do-
18	∅ 28 + 0.03	C4	Plug Go/No Go Gauge
19	2 Oblong holes	E4	-do-
20	Geometrical tolerances	-	Fixture

18. FORK SPINDLE (DRG No. ARDE 9501-03 DET No.17)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	56 ± 0.2	E6	Position Gauge
2	6	D7	-do-
3	∅ 5.1	D6	Plug Go/No Go Gauge
4	∅ 12.97 - 0.03	D3 & D7	Ring Go/No Go Gauge
5	∅ 21	D4	Snap Go/No Go Gauge
6	11 + 0.2	D4	Position Gauge
7	123 + 0.3	C5	Limit Gauge
8	180	C5	-do-
9	3	C4	-do-
10	∅ 3.2	E2	Plug Go/No Go Gauge
11	∅ 2	C6	-do-
12	Geometrical tolerances	-	Fixture

19. ARMING FORK (DRG No. ARDE 9501-03 DET No.18)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	R 10 (both sides)	D8	Radius Gauge
2	55	E8	Limit Gauge
3	22	D8	-do-
4	4.5	E6	Profile Gauge
5	23 + 0.1	E6	-do-
6	4.5	D6	-do-
7	4 deg	D6 & E6	-do-
8	98 ± 0.2	F4	Position Gauge
9	56 ± 0.2	F4	-do-
10	42 ± 0.2	E4	-do-
11	2	E2	Plug Go/No Go Gauge
12	25.5	D6	Limit Gauge
13	62.5 + 0.1	D5	-do-
14	7	D5	Position Gauge
15	97 + 0.3	D4	Limit Gauge
16	173.5	D5	-do-
17	∅ 5.2	D4	Plug Go/No Go Gauge
18	∅ 13 + 0.03	C3	Plug Go/No Go Gauge
19	∅ 21.9 - 0.1	C3	Ring Go/No Go Gauge
20	10.5	C6	Limit Gauge
21	Surface finish 1.6	E4	Instrument/Comparator

Appendix "D"(contd)

22 Geometrical tolerances - Fixture

20. BEARING WASHER (DRG No. ARDE 9501-03 DET No.19)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	4	B1	Limit Gauge
2	∅ 27	B2	Snap Go/No Go Gauge
3	∅ 13 + 0.2	B2	Plug Go/No Go Gauge
4	0.5 x 45 deg	B2	Visual

21. ARMING TUBE (DRG No. ARDE 9501-03 DET No.20)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	440	D5	Limit Gauge
2	∅ 13 + 0.1	D3	Plug Go/No Go Gauge
3	∅ 16	D3	Snap Go/No Go Gauge
4	10	D3 & D6	Position Gauge
5	20	D3 & D6	-do-
6	Holes ∅ 3.2	D6 & D3	Plug Go/No Go Gauge
7	Geometrical tol.	-	Fixture

22. VANE SPINDLE (DRG No. ARDE 9501-03 DET No.21)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	∅ 13 - 0.05	D5	Snap Go/No Go Gauge
2	30	E5	Limit Gauge
3	120	C4	-do-
4	∅ 5.1 + 0.1	D3	Plug Go/No Go Gauge
5	∅ 10 f7	D3	Snap Go/No Go Gauge
6	Geometrical tolerances	-	Fixture

23. BOTTOM PLATE (DRG No. ARDE 9501-03 DET No.22)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	180	B6	Limit Gauge
2	70	C6 & E3	-do-
3	50	E4	-do-
4	55	D7	-do-
5	10	D4	-do-
6	25 ± 0.1	E8	Position Gauge
7	62	D6	-do-
8	Holes ∅ 5.2	F4	Plug Go/No Go Gauge
9	Holes ∅ 6.2 ± 0.2	D4	-do-
10	∅ 48 ± 0.1	F6	-do-
11	Geometrical tolerances	-	Fixture

Appendix 'D' (contd)

12 12 C4 Limit Gauge

24. CLOSING PLUG (REAR BEARING) (DRG No. ARDE 9501-03 DET No.23)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	∅ 28	B1	Plug Go/No Go Gauge
2	4	B1	Limit Gauge
3	14 - 0.1	A1	-do-
4	∅ 13.2 + 0.1	C2	Plug Go/No Go Gauge
5	M36 x 1-6g	B2	Thread Ring Go/No Go Gauge
6	2.2	C3	Slip Gauge
7	5	C3	Limit Gauge
8	Geometrical tolerances	-	Fixture

25. FORK BEARING FRONT (DRG No. ARDE 9501-03 DET No.24)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	18 -0.2	B2	Limit Gauge
2	∅ 22 + 0.03	B2	Plug Go/No Go Gauge
3	∅ 31.95 - 0.04	A2	Ring Go/No Go Gauge
4	1 x 45 deg	B2 & B3	Visual
5	Geometrical tolerances	B3	Fixture

26. CLOSING PLUG (FRONT BEARING) (DRG No. ARDE 9501-03 DET No.25)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	13 - 0.2	B3	Limit Gauge
2	∅ 22.1 + 0.1	B4	Plug Go/No Go gauge
3	M36 x 1 - 6g	B4	Thread Ring Go/No Go Gauge
4	2.2	C1	Slip Gauge
5	5	C1	Limit Gauge
6	Geometrical tolerances	-	Fixture

27. FORK BEARING REAR (DRG No. ARDE 9501-03 DET No.26)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	10 - 0.2	B2	Limit Gauge
2	3	B2	-do-
3	∅ 27.96 - 0.03	A2	Ring Go/No Go Gauge
4	∅ 32	C2	Snap Go/No Go Gauge
5	∅ 13 + 0.02	B2	Plug Go/No Go Gauge
6	1 x 45 deg	B2	Visual
7	Geometrical tolerances	-	Fixture

Appendix 'D' (contd)

28. SPINDLE BEARING (DRG No. ARDE 9501-03 DET No.27)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	∅ 19.9 - 0.05	C1	Ring Go/No Go Gauge
2	8	C2	Limit Gauge
3	2	B2	-do-
4	∅ 10.1 + 0.1	C2	Plug Go/No Go Gauge
5	∅ 24.9 - 0.1	C3	Snap Go/No Go Gauge
6	1 x 45 deg	B2	Visual
7	Geometrical tolerances	-	Fixture

29. SPINDLE BEARING HOUSING (DRG No. ARDE 9501-03 DET No.28)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	∅ 33	C1	Snap Go/No Go Gauge
2	∅ 7	C2	Plug Go/No Go Gauge
3	PCD 45	C2	Position Gauge
4	8 R	C2	Radius Gauge
5	∅ 20 + 0.03	C3	Plug Go/No Go Gauge
6	3	C4	Limit Gauge
7	2.2	C3	-do-
8	∅ 58	C4	Snap Go/No Go Gauge
9	∅ 25 + 0.1	C4	Plug Go/No Go Gauge
10	8.5	B4	Limit Gauge
11	Geometrical tolerances	-	Fixture

30. VANE (DRG No. ARDE 9501-03 DET No.30)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	∅ 140	D8	Snap Go/No Go Gauge
2	∅ 68	D8	-do-
3	∅ 58	D7	Taper Gauge
4	10 deg	E7	Profile Gauge
5	7 deg 30'	E6	-do-
6	∅ 20 H7	D6	Plug Go/No Go Gauge
7	5 deg	C7	Profile Gauge
8	27	D7	Limit Gauge
9	32	B6	Limit Gauge
10	R 5	C7, D7 & D5	Radius Gauge
11	R 1.75	E5	-do-
12	3.5	E5	Taper Gauge
13	5	E5	-do-
14	60 deg	E4 & F4	Profile Gauge
15	PCD 33	E2	Position Gauge
16	∅ 4.2	C4	Plug Go/No Go Gauge
17	Geometrical tolerances	-	Fixture

Appendix 'D'(contd)

31. BUSH VANE (DRG No. ARDE 9501-03 DET No.31)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	∅ 45	E7	Snap Go/No Go Gauge
2	∅ 20 f7	D5	Ring Go/No Go Gauge
3	∅ 20	D2	Snap Go/No Go Gauge
4	33 PCD	E5	Position Gauge
5	∅ 4.2	C7	Plug Go/No Go Gauge
6	1 x 45 deg	E5	Visual
7	40	C4	Limit Gauge
8	25	C4	-do-
9	20	C3	-do-
10	10	C3	Position Gauge
11	∅ 5.1 + 0.1	E3	Plug Go/No Go Gauge
12	∅ 10 H7	D3	-do-
13	Geometrical tolerances	-	Fixture

32. PIN VANE (DRG No. ARDE 9501-03 DET No.32)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	∅ 5 - 0.1	C1	Snap Go/No Go Gauge
2	∅ 1.6	C2	Plug Go/No Go Gauge
3	∅ 7	C3	Snap Go/No Go Gauge
4	2	B2	Limit Gauge
5	24	B2	Position Gauge
6	30	B2	Limit Gauge
7	1.5 x 45 deg	B1	Visual
8	Geometrical tolerances	-	Fixture

33. CLIP RETAINING (DRG No. ARDE 9501-03 DET No.33)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	∅ 8	B1	Plug Go/No Go Gauge
2	25	B1	Position Gauge
3	10	B2	Limit Gauge
4	32	B2	Position Gauge
5	∅ 1	B2	Snap Go/No Go Gauge
6	45 deg	B2	Profile Gauge
7	2.5	C2	Slip Gauge
8	5	C3	Limit Gauge

34. PANEL I (DRG No. ARDE 9501-03 DET No.34)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	∅ 7	C5	Plug Go/No Go Gauge
2	10	D5	Position Gauge
3	10	D3	-do-

Appendix "D"(contd)

4	7	D3	Slip Gauge
5	R 125	F6	Radius Gauge
6	R 100	F2	-do-
7	1.6	D2	Limit Gauge
8	All other dim	-	Die & Punch

35. PANEL II (DRG No. ARDE 9501-03 DET No.36)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	∅ 7	C5	Plug Go/No Go Gauge
2	10	C5	Position Gauge
3	10	D3	-do-
4	7	D3	Slip Gauge
5	R 125	E6	Radius Gauge
6	R 100	F2	-do-
7	1.6	D2	Limit Gauge
8	∅ 20	C8	Plug Go/No Go Gauge
9	PCD 30	D8	Position Gauge
10	∅ 3.1	C7	Plug Go/No Go Gauge
11	65	C3	Position Gauge
12	All other dim	-	Die & Punch

36. ARMING WIRE GUIDE (DRG No. ARDE 9501-03 DET No.37)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	∅ 3.1	C1	Plug Go/No Go gauge
2	∅ 10	C2	-do-
3	PCD 30	C3	Position Gauge
4	∅ 19.8 - 0.1	B2	Snap Go/No Go Gauge
5	∅ 36	A2	-do-
6	2	B3	Limit Gauge
7	5	B3	-do-
8	R 2	B3	Radius Gauge
9	Geometrical tolerances	-	Fixture

37. STUD (DRG No. ARDE 9501-03 DET No.38)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	23	B2	Limit Gauge
2	M 12 x 1.75 - 6g	C2	Thread Ring Go/No Go Gauge
3	120 deg	A2	Profile Gauge

38. ADAPTOR BLANKING (DRG No. ARDE 9501-03 DET No.39)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	M 16 x 2	A2	Thread Ring Go/No Go Gauge

Appendix "D"(contd)

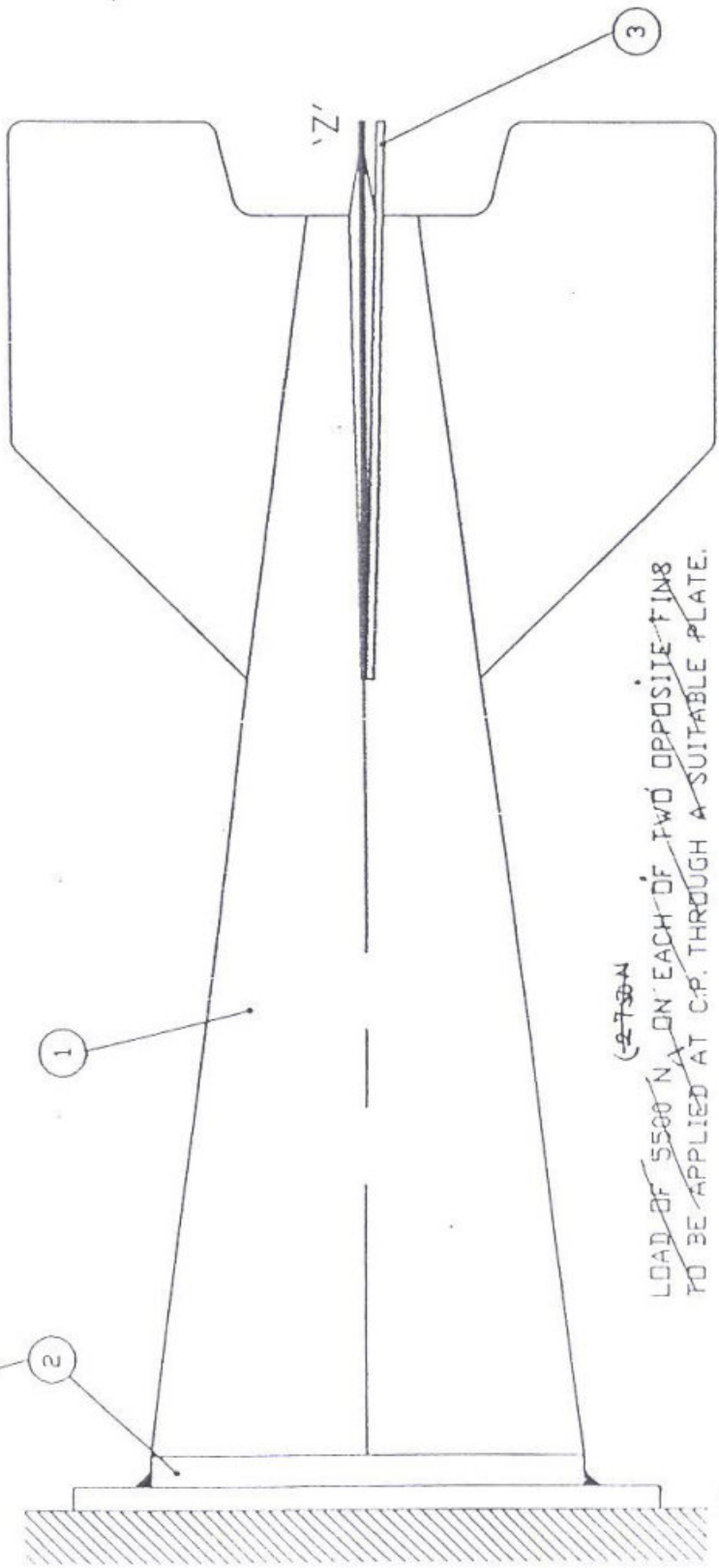
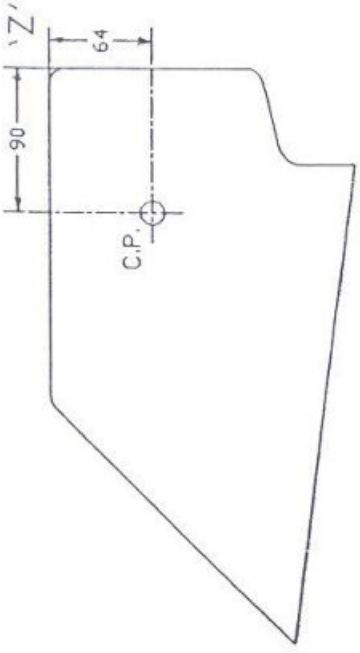
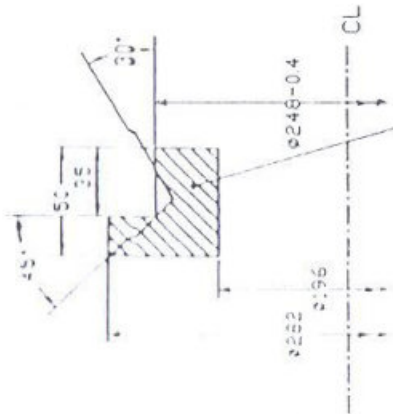
43. WARNING FLAG (DRG No. ARDE 9501-03 DET No.45)

Sl.No.	Drawing dim/Features	Zone	Method of Inspection/Gauge
1	0.5	C3	Limit Gauge
2	All other dimensions	-	Die & Punch

RESTRICTED

APPENDIX 'E'
(PARA 10.5.1)

METHOD OF CARRYING OUT LOAD TEST
FOR TAIL CONE ASSEMBLY



LOAD OF 5500 N ON EACH OF TWO OPPOSITE FINS
TO BE APPLIED AT C.P. THROUGH A SUITABLE PLATE.

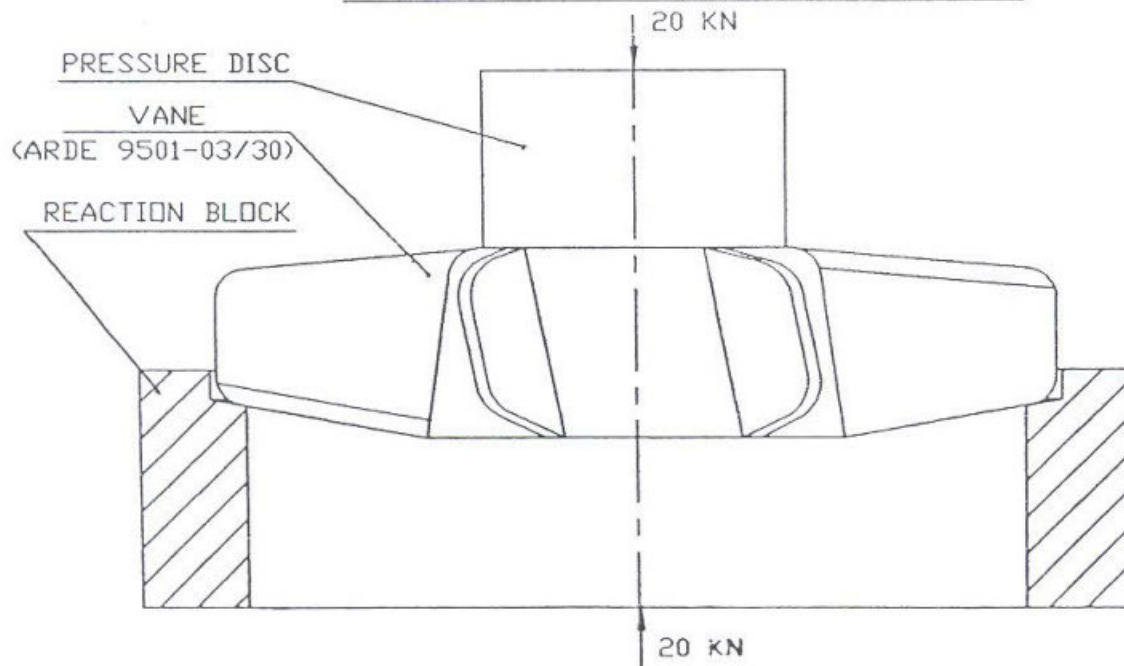
LOAD OF 5500 N (2750 N on each fin) on both of two opposite fins to be applied at C.P. through a suitable plate.

RESTRICTED

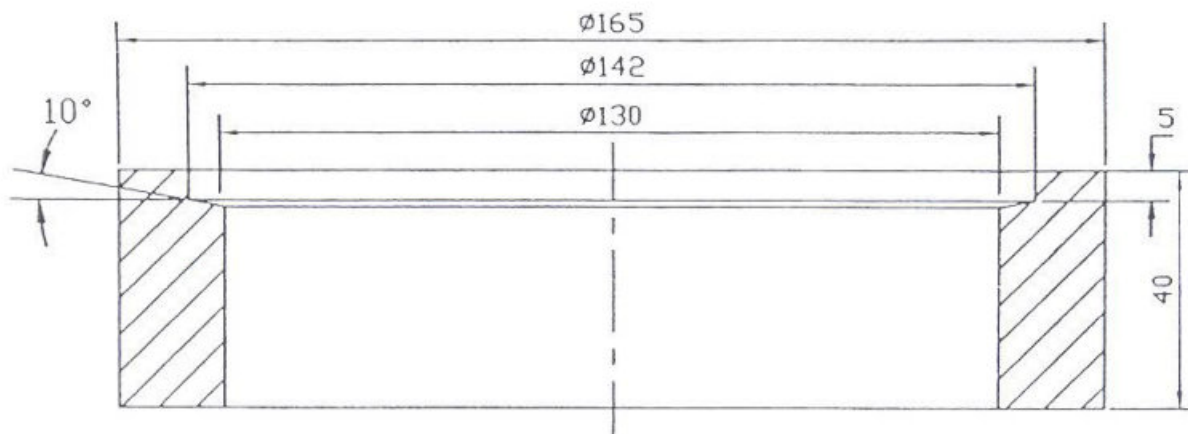
ALL DIM ARE IN mm

Amended vide RCM (AA) Letter no RCM (AA) 1440/5/TECH dt 29.4.10 /hmk

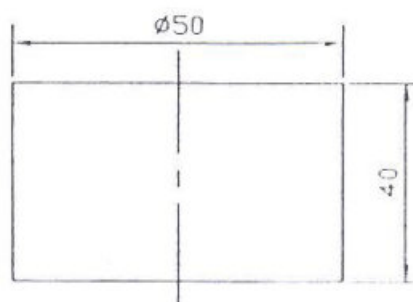
METHOD OF TESTING OF VANE



VANE TEST FIXTURE



REACTION BLOCK



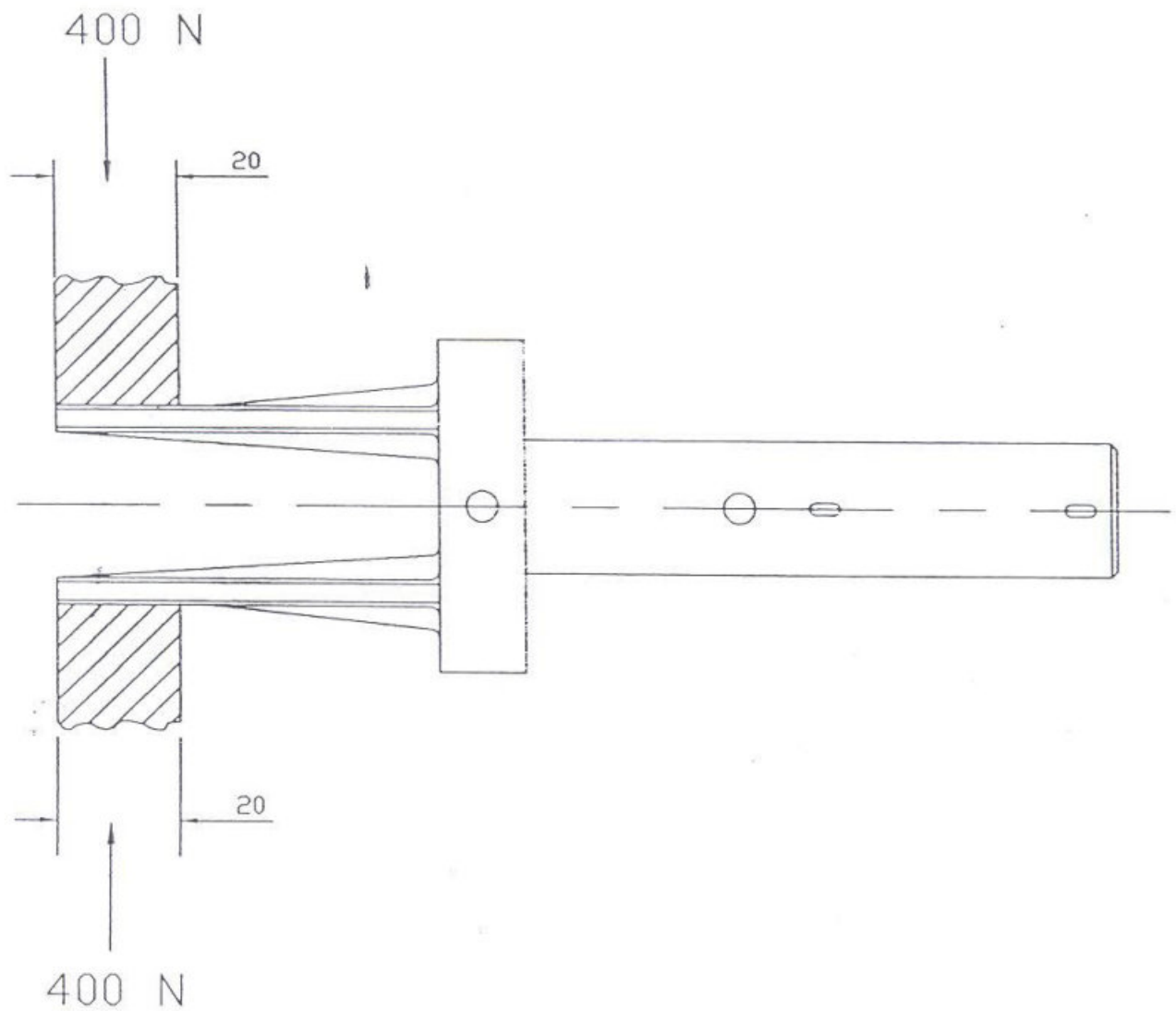
PRESSURE DISC

RESTRICTED

ALL DIM ARE IN mm
MATL : STEEL

APPENDIX 'G'
(PARA 10.5.3)

METHOD OF TESTING OF ARMING FORK



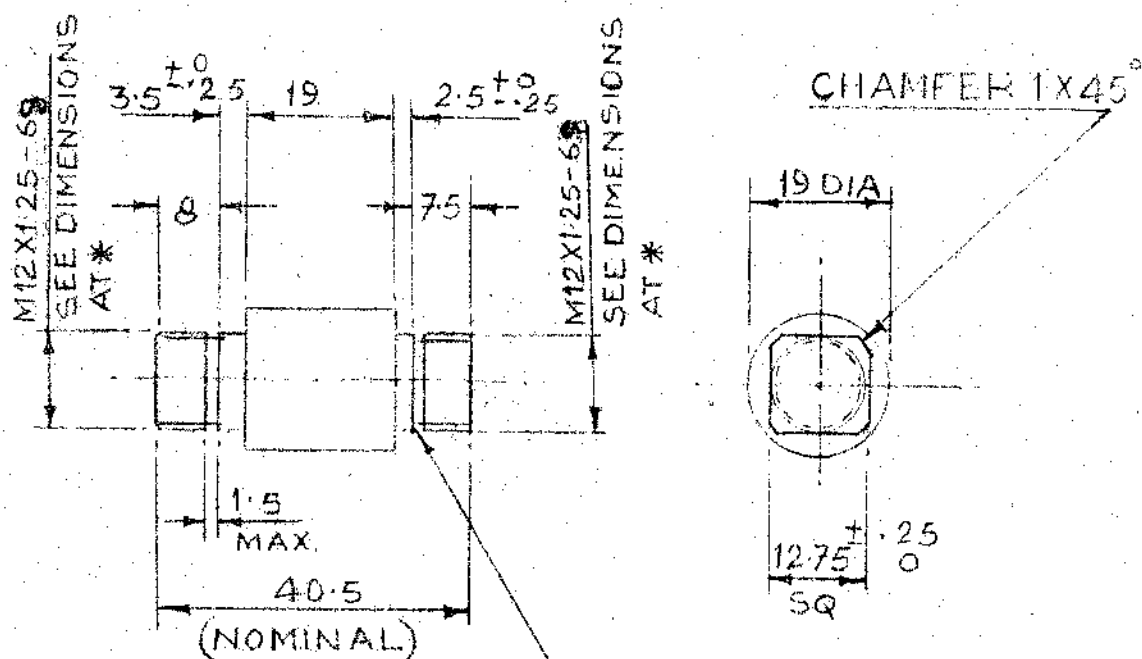
ALL DIM ARE IN mm

DRG.No.

ARM 1253 A10

DRG. CONVENTIONS ARE BASED ON IS: 696.

(14)



UNDERCUT NOT TO BE
DEEPER THAN ROOT OF THREAD

PROTECTIVE FINISH

TO BE ELECTROGALVANISED TO SPEC.

IS: 1573-FE ZN 25 AND PASSIVATED

TO IS: 1340

* LIMITS FOR M12X1.25-6g THREAD

	MAX	MIN
MAJOR DIA	11.972	11.760
PITCH DIA	11.160	11.028
MINOR DIA	10.438	10.216

4	5 18/93	—	REVISED VIDE A.L. NO. 716	Sd/-
3	22 2/75	—	RETRACED	
2	5 7/72	—	REVISED VIDE A.L. NO 171	Sd/-
1	20 9/65	—	ORIGINAL	Sd/-

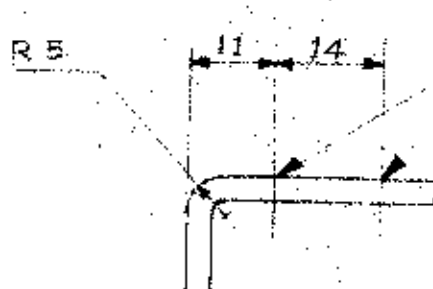
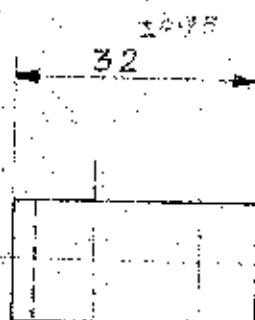
3	18 7/96		RETRACED WITH: OUT CHANGE	Sd/-	1	20 9/65	—	ORIGINAL	Sd/-
R.NO	DATE	ZONE	BRIEF RECORD	INITIAL	R.NO	DATE	ZONE	BRIEF RECORD	INITIAL

	DATE	INITIAL	DIMENSIONS ARE IN MM.	D.T.D & P. (AIR)
DGN			MATL. SPEC.	MINISTRY OF DEFENCE
DRN			STEEL, IS: 1570-C20	
CHD	18 7/96		SEC. REF. NO.	
TCD	18 7/96		GAUGE. SCHD. NO.	
COMP.			DRG. LIST. NO. ARM 1253	
SCALE :- 1:1			TITLE —	APPROVED
TOL :- TOL. EXCEPT WHERE OTHERWISE STATED TO IS: 2102 (MED)			SPIGOT	DRG. NO. ARM 1253 A10

ARM 1253A12

DRG. CONVENTIONS ARE BASED ON IS: 695

(10)



POSITIONS MARKED
FOR SPOT WELDING

2.5 THK. SHEET

FOR PROTECTIVE TREATMENT
SEE DRG. NO. ARM 1253 C7.

- 4. 23 $\frac{7}{16}$
- 3. 3 $\frac{6}{16}$
- 2. 5 $\frac{1}{2}$
- 1. 20 $\frac{9}{16}$

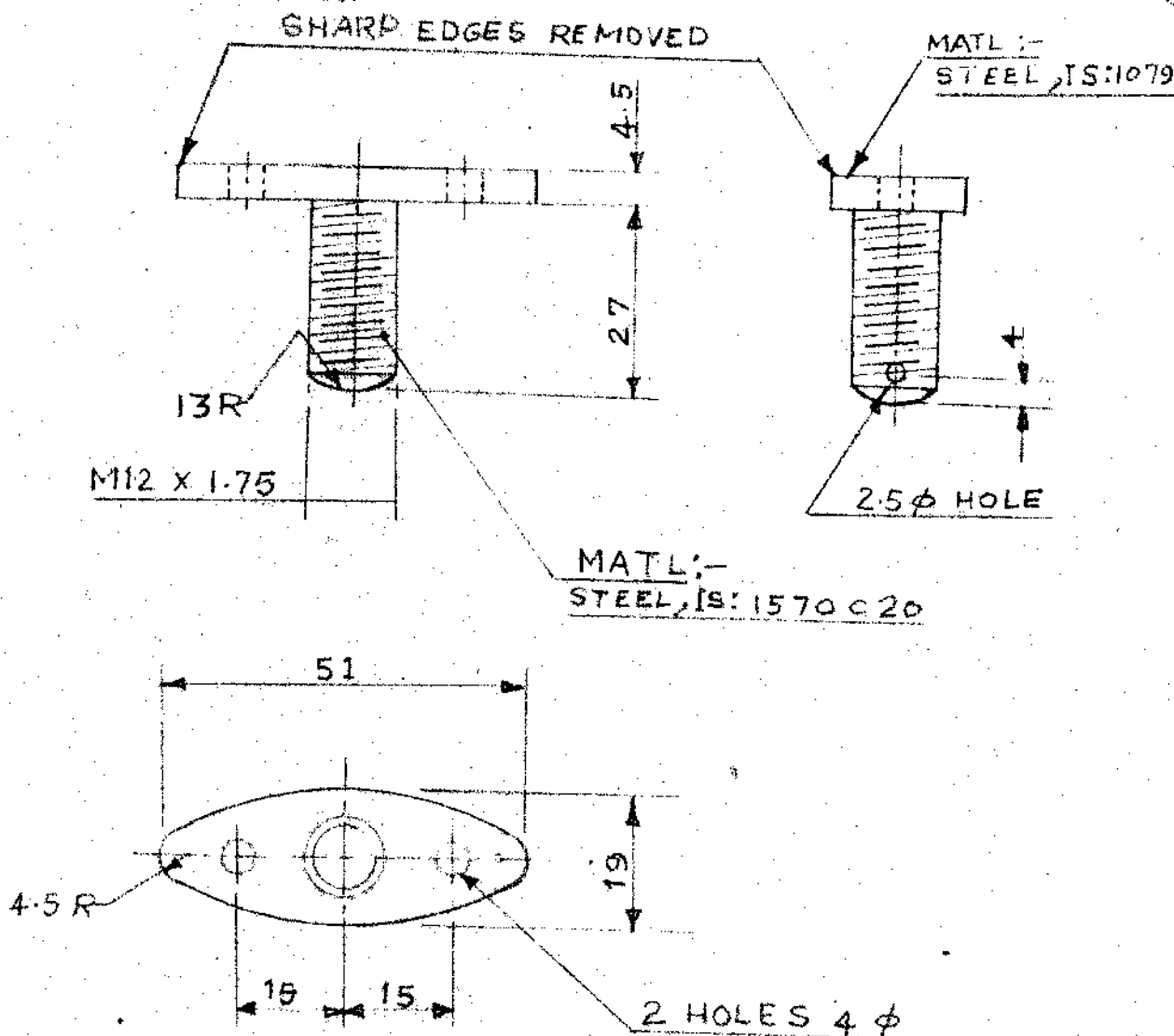
DRG. RETRACED
DRG. RETRACED
WITHOUT CHANGE
REVISED VIDE
A.L. NO. 171
PROV. SEALED

DRG. NO.	DATE	INITIAL	DIMENSIONS ARE IN MM.	DRG. LIST NO.	ARM 1253
DRG. NO.	DATE	INITIAL	MATL. SPEC. - STEEL	IS: 1079.	
DRG. NO.	DATE	INITIAL	SEC. REF. NO.		
DRG. NO.	DATE	INITIAL	GAUGE, SCHD. NO.		
DRG. NO.	DATE	INITIAL	DRG. LIST NO.	ARM 1253	
DRG. NO.	DATE	INITIAL	SCALE - 1:1		
DRG. NO.	DATE	INITIAL	FILE NO.		
DRG. NO.	DATE	INITIAL	APPROVED		
DRG. NO.	DATE	INITIAL	DRG. NO.		
DRG. NO.	DATE	INITIAL	ARM 1253A12		

STOP

ARM 1253. A16

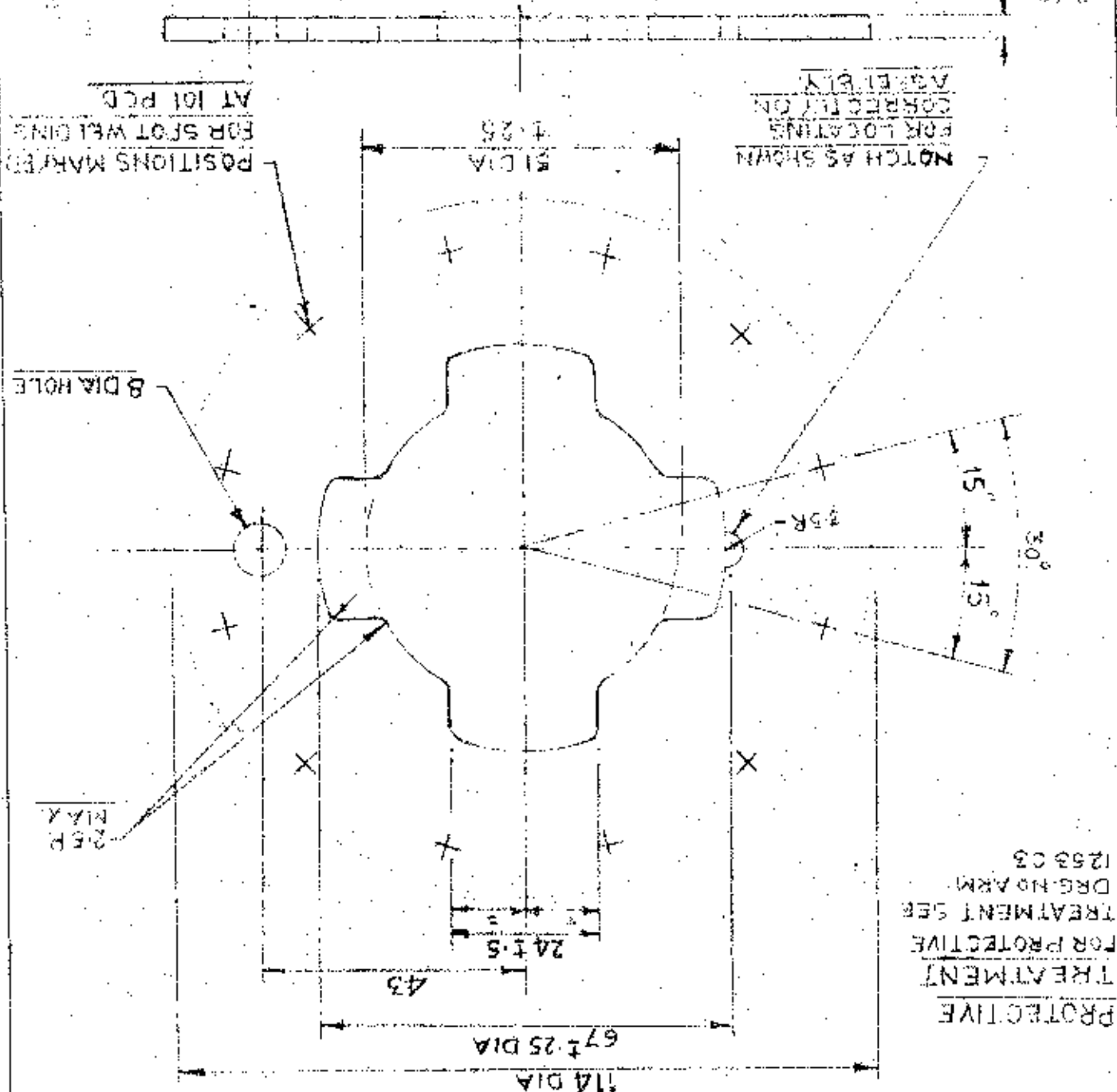
DRG. CONVENTIONS ARE BASED ON IS: 696. (20)



HEAD MAY BE INTEGRAL OR
WELDED TO THE BODY. TO BE
ELECTROGALVANISED TO
SPECN. IS: 1573 - FE Zn 25
& PASSIVATED TO IS:1340

4	1 $\frac{8}{98}$	-	DRG. RETRACED WITHOUT CHANGE.	
3	24 $\frac{1}{75}$	-	DRG. RETRACED WITHOUT CHANGE	sd/-
2	5 $\frac{7}{72}$	-	REVISED VIDE A.L. No. 171	sd/-
1	20 $\frac{9}{25}$	-	ORIGINAL	

NO	DATE	ZONE	PROV SEALED	INITIAL	R.NO	DATE	ZONE	BRIEF RECORD	INITIAL
			BRIEF RECORD	DATE	INITIAL	DIMENSIONS ARE IN MM.			
			OGH			MATL. SPEC.			D.T.D & P. (AIR)
			DRN			AS ABOVE			MINISTRY OF DEFENCE
			CHD	27-7-96		SEC. REF. NO.			
			TCD	27-7-96		GAUGE. SCHD. NO.			
			COMP.			DRG. LIST. NO. ARM 1253			
			SCALE - 1:1	TITLE -			APPROVED		
			TOL :- TOL. EXCEPT WHERE OTHERWISE STATED TO IS: 2102 (MSD)	BOLT			DRG. NO. ARM 1253 A16		

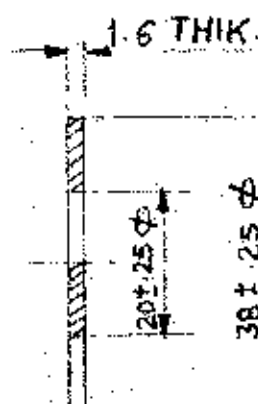
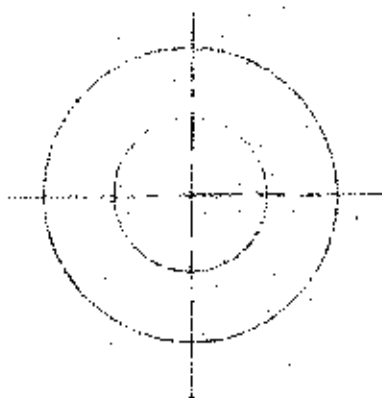


315		THK ENT		27/7/68		25/7/68		26/7/68		27/7/68		28/7/68		29/7/68		30/7/68		31/7/68		1/8/68		2/8/68		3/8/68		4/8/68		5/8/68		6/8/68		7/8/68		8/8/68		9/8/68		10/8/68		11/8/68		12/8/68		13/8/68		14/8/68		15/8/68		16/8/68		17/8/68		18/8/68		19/8/68		20/8/68		21/8/68		22/8/68		23/8/68		24/8/68		25/8/68		26/8/68		27/8/68		28/8/68		29/8/68		30/8/68		31/8/68		1/9/68		2/9/68		3/9/68		4/9/68		5/9/68		6/9/68		7/9/68		8/9/68		9/9/68		10/9/68		11/9/68		12/9/68		13/9/68		14/9/68		15/9/68		16/9/68		17/9/68		18/9/68		19/9/68		20/9/68		21/9/68		22/9/68		23/9/68		24/9/68		25/9/68		26/9/68		27/9/68		28/9/68		29/9/68		30/9/68		1/10/68		2/10/68		3/10/68		4/10/68		5/10/68		6/10/68		7/10/68		8/10/68		9/10/68		10/10/68		11/10/68		12/10/68		13/10/68		14/10/68		15/10/68		16/10/68		17/10/68		18/10/68		19/10/68		20/10/68		21/10/68		22/10/68		23/10/68		24/10/68		25/10/68		26/10/68		27/10/68		28/10/68		29/10/68		30/10/68		31/10/68		1/11/68		2/11/68		3/11/68		4/11/68		5/11/68		6/11/68		7/11/68		8/11/68		9/11/68		10/11/68		11/11/68		12/11/68		13/11/68		14/11/68		15/11/68		16/11/68		17/11/68		18/11/68		19/11/68		20/11/68		21/11/68		22/11/68		23/11/68		24/11/68		25/11/68		26/11/68		27/11/68		28/11/68		29/11/68		30/11/68		1/12/68		2/12/68		3/12/68		4/12/68		5/12/68		6/12/68		7/12/68		8/12/68		9/12/68		10/12/68		11/12/68		12/12/68		13/12/68		14/12/68		15/12/68		16/12/68		17/12/68		18/12/68		19/12/68		20/12/68		21/12/68		22/12/68		23/12/68		24/12/68		25/12/68		26/12/68		27/12/68		28/12/68		29/12/68		30/12/68		31/12/68		1/1/69		2/1/69		3/1/69		4/1/69		5/1/69		6/1/69		7/1/69		8/1/69		9/1/69		10/1/69		11/1/69		12/1/69		13/1/69		14/1/69		15/1/69		16/1/69		17/1/69		18/1/69		19/1/69		20/1/69		21/1/69		22/1/69		23/1/69		24/1/69		25/1/69		26/1/69		27/1/69		28/1/69		29/1/69		30/1/69		31/1/69		1/2/69		2/2/69		3/2/69		4/2/69		5/2/69		6/2/69		7/2/69		8/2/69		9/2/69		10/2/69		11/2/69		12/2/69		13/2/69		14/2/69		15/2/69		16/2/69		17/2/69		18/2/69		19/2/69		20/2/69		21/2/69		22/2/69		23/2/69		24/2/69		25/2/69		26/2/69		27/2/69		28/2/69		29/2/69		30/2/69		31/2/69		1/3/69		2/3/69		3/3/69		4/3/69		5/3/69		6/3/69		7/3/69		8/3/69		9/3/69		10/3/69		11/3/69		12/3/69		13/3/69		14/3/69		15/3/69		16/3/69		17/3/69		18/3/69		19/3/69		20/3/69		21/3/69		22/3/69		23/3/69		24/3/69		25/3/69		26/3/69		27/3/69		28/3/69		29/3/69		30/3/6	
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DRG. 15

DRG. CONVENTIONS ARE BASED ON IS: 8911

ARM 1253 A13



4	18/72	DRG. RETRACED WITHOUT CHANGE	
3	36/75	DRG. RETRACED WITHOUT CHANGE	84/-
2	57/2	REVISED VIDE A.L. No. 171	84/-
1	20/85	PROY. SEALED	

REV.	DATE	ZONE	BRIEF RECORD	INITIAL	REV.	DATE	ZONE
			DATE	INITIAL	DIMENSIONS ARE IN MM.		
DOE					MATERIAL SPEC. BRASS		
DOE					Cu Zn 37 1/2 H IS: 410		
DOE	27-7-78				SEC. REF. NO.		
DOE	27-7-78		Small		GAUGE. SCHD. NO.		
DOE					DRG. LIST NO. ARM 1253		
SCALE - 1:1				TITLE: -			
TOL. - TOL. EXC. 71				WASHER			
VAL. ER. 01-11-78							
DATED 20.12.77							

BRIEF RECORD

D.I.D & P.S.

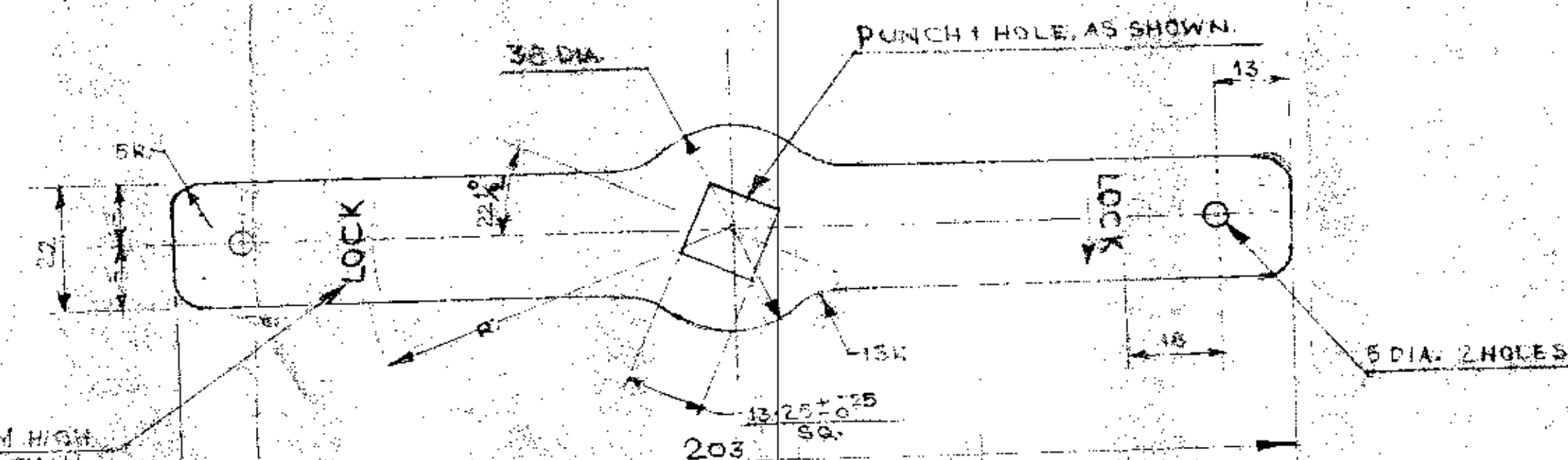
MINISTRY OF DEFENCE

APPROVED

DRG. NC

ARM 1253 A13

DRG. CONVENTIONS ARE BASED ON IS: 696



PROTECTIVE TREATMENT:-
FOR PROTECTIVE TREATMENT, SEE
DRG. NO ARM. 1253 C 7

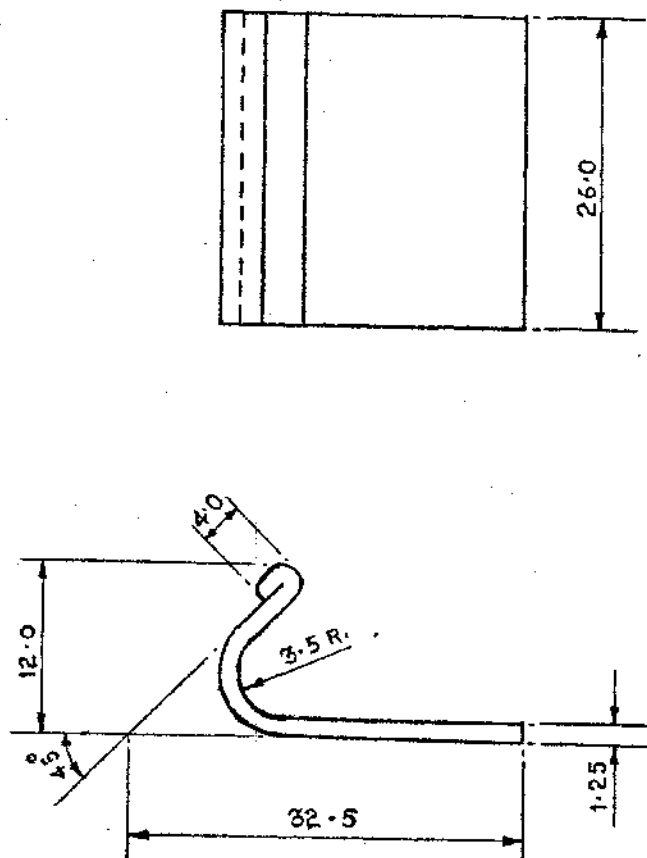
4	15296	DRG. RETRACED	SD	CONV	DRG LIST NO. ARM 1253
5	2235	RETRACED WITHOUT ANY CHANGE	SD	SCALE 1:1	TITLE: -
6	1735	REVISED VICE A. N. E.	SD	TOL. "	RELEASE E. A. F.
7	2075	ORIGINAL	SD	TOL. EXCEPT PHOTOMETERANCE	ARM 1253 CB
RNT DATE ZONE		BRIEF RECORD	INITIAL	STATED TO	

TAIL UNIT NO. TB-250

Sl. No.	Nomenclature/ Drawing Designation	Drawing/Part. No.
1	TAIL UNIT NO TB - 250	ARDE 9501 - 03
2	CONE BODY ASSEMBLY PAINTING & STENCILLING	ARDE 9501 - 03 DET No. 1
3	CONE BODY	ARDE 9501 - 03 DET No. 3
4	CONE RING ASSEMBLY	ARDE 9501 - 03 DET No. 4
5	END COVER ASSEMBLY	ARDE 9501 - 03 DET No. 7
6	PANEL SUPPORT LARGE	ARDE 9501 - 03 DET No. 9
7	PANEL SUPPORT SMALL	ARDE 9501 - 03 DET No. 10
8	BRACKET	ARDE 9501 - 03 DET No. 11
9	FLEXIBLE DRIVE ADAPTOR	ARDE 9501 - 03 DET No. 12
10	FIN ASSEMBLY	ARDE 9501 - 03 DET No. 13 SHT No. 1
11	FIN LEFT	ARDE 9501 - 03 DET No. 13 SHT No. 2
12	FIN RIGHT	ARDE 9501 - 03 DET No. 13 SHT No. 3
13	GROMET	ARDE 9501 - 03 DET No. 14
14	ARMING FORK ASSEMBLY	ARDE 9501 - 03 DET No. 15
15	HOUSING	ARDE 9501 - 03 DET No. 16
16	FORK SPINDLE	ARDE 9501 - 03 DET No. 17
17	ARMING FORK	ARDE 9501 - 03 DET No. 18
18	BEARING WASHER	ARDE 9501 - 03 DET No. 19
19	ARMING TUBE	ARDE 9501 - 03 DET No. 20
20	VANE SPINDLE	ARDE 9501 - 03 DET No. 21
21	BOTTOM PLATE	ARDE 9501 - 03 DET No. 22
22	CLOSING PLUG (REAR BEARING)	ARDE 9501 - 03 DET No. 23
23	FORK BEARING FRONT	ARDE 9501 - 03 DET No. 24
24	CLOSING PLUG FRONT BEARING	ARDE 9501 - 03 DET No. 25
25	FORK BEARING REAR	ARDE 9501 - 03 DET No. 26
26	SPINDLE BEARING	ARDE 9501 - 03 DET No. 27
27	SPINDLE BEARING HOUSING	ARDE 9501 - 03 DET No. 28
28	VANE ASSEMBLY	ARDE 9501 - 03 DET No. 29
29	VANE	ARDE 9501 - 03 DET No. 30
30	BUSH VANE	ARDE 9501 - 03 DET No. 31
31	PIN VANE	ARDE 9501 - 03 DET No. 32
32	CLIP RETAINING	ARDE 9501 - 03 DET No. 33
33	PANEL I	ARDE 9501 - 03 DET No. 34
34	PANEL II & ARMING WIRE GUIDE ASSY	ARDE 9501 - 03 DET No. 35
35	PANEL II	ARDE 9501 - 03 DET No. 36
36	ARMING WIRE GUIDE	ARDE 9501 - 03 DET No. 37
37	STUD	ARDE 9501 - 03 DET No. 38
38	ADAPTOR BLANKING	ARDE 9501 - 03 DET No. 39
39	PIN, ARMING FORK	ARDE 9501 - 03 DET No. 40
40	RING RETAINING	ARDE 9501 - 03 DET No. 41
41	CLIP TRANSIT ASSEMBLY	ARDE 9501 - 03 DET No. 42
42	CLIP TRANSIT	ARDE 9501 - 03 DET No. 43
43	RING FOR WARNING FLAG	ARDE 9501 - 03 DET No. 44
44	WARNING FLAG	ARDE 9501 - 03 DET No. 45

	Box Steel No. 1 MK 1 To Hold 1 Tail Unit No. TB 250	
1	Method of Painting & Stencilling for Box Steel No. 1 MK-1 To Hold 1 Tail Unit No. TB 250	ARDE 9501-05 Sht No. 1
2	Method of Packing for Box Steel No. 1 MK-1 To Hold 1 Tail Unit No. TB 250	ARDE 9501-05 Sht No. 2
3	Body (Welding Assy)	ARDE 9501-05 Sht No. 3
4	Piece Packing Bottom	ARDE 9501-05 Det No. 1
5	Piece Packing Top - I	ARDE 9501-05 Det No. 2
6	Body	ARDE 9501-05 Det No. 3
7	Sealing Lid - Assembly	ARDE 2039 Sht No. 4
8	Lid (Welding Assy)	ARDE 2039 Det No. 2
9	Lid	ARDE 2039 Det No. 3
10	BRACKET	ARM 1253 A5
11	LOCKING PLATE	ARM 1253 A6
12	Pressure Plate - Sub Assy	ARDE 2039 Det No. 9
13	RELEASE BAR	ARM 1253 C8
14	Pressure Plate	ARDE 2039 Det No. 10
15	SPIGOT	ARM 1253 A10
16	Base Plate	ARDE 2039 Det No. 19
17	STOP	ARM 1253 A12
18	WASHER	ARM 1253 A13
19	ARM	ARDE 2039 Det No. 12
20	PIN	ARM 1253 A15
21	BOLT	ARM 1253 A16
22	Ring Rubber	ARDE 2039 Det No. 11
23	Inner Lid Assy	ARDE 2283 Sht No. 4
24	Handle And Cleat	ARDE 2283 Det No. 4
25	Link Assy	ARDE 2283 Det No. 5
26	Link	ARDE 2283 Det No. 9
27	Hinge Plate	ARDE 2283 Det No. 10
28	Handle	ARDE 2283 Det No. 11
29	Handel Plate	ARDE 2283 Det No. 12
30	Hinge	ARDE 2283 Det No. 13
31	Bottom Plate	ARDE 2283 Det No. 6
32	Top Plate	ARDE 2283 Det No. 7
33	Bottom Plate Tie Piece	ARDE 2283 Det No. 8
34	Lid Seating	ARDE 2039 Det No. 4
35	Rim	ARDE 2039 Det No. 5
36	Bottom	ARDE 2039 Det No. 7
37	Bracket	ARDE 2283 Det No. 3
38	Corner Plate	ARDE 1248 Det No. 2
39	Clip	ARDE 1248 Det No. 3
40	Alternative Clip	ARDE 1248 Det No. 4

PART No

FOR EXPLANATION OF DIMENSIONING, ETC., SEE ARDE NOTES HT. No. 1
THIRD ANGLE PROJECTION. DIMENSIONS ARE IN MILLIMETRES.**MATERIAL:—**

M.S. TO SPEC: IS: 513-TYPE 'O' OR
IS-1570, C-20 COLD ROLLED.

ASSY. DRG. ARDE 1248/1, SHT. 1

INSP INSTRS

DRAWN CHECKED TRACED TRN CHD

S.S.A.

Sd- Mohan

CHIEF D'MAN

GROUP OFFICER

Sd-

Sd-

APPROVED

Sd-

FOR DIRECTOR

DATE: 3-11-73

ARDE 1248

DETAIL No. 3

PART No.

ARDE, PASHAN, PUNE-21

26-4-73

DATE AUTHORITY ZONE

ORG. RE-TRACED

NATURE

SIG.

AMENDMENTS

SEALED

MATERIAL AS ABOVE

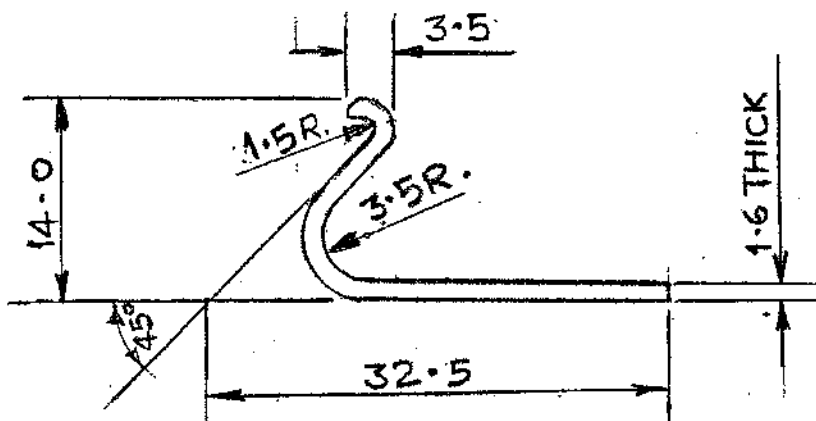
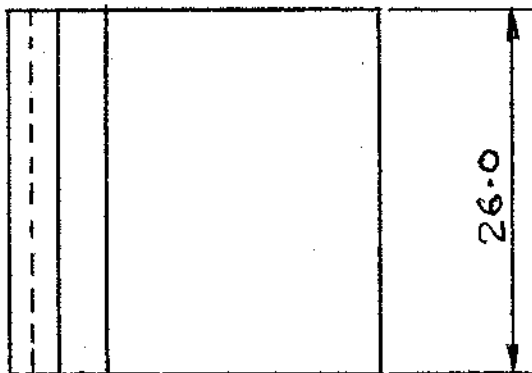
PROTECTIVE FINISH

ESTIMATED WEIGHT

SCALE 2:1

CLIP

1		2		3		4	
PART NO. DET NO 4 SHTS SHTS NO.				FOR EXPLANATION OF DIMENSIONING, ETC., SEE ARDE NOTE SHEET NO. 1 DIMENSIONS ARE IN MILLIMETRES.			
DRG NO. ARDE 1248							



BASED ON SK. NO. ARM 21/730 F.D.T. D&P (AIR) MINISTRY OF DEFENCE

1	20/52		RETRACED				
R NO	DATE	AUTHORITY	BRIEF RECORD	ZONE	CD	GO	SIGN.

DRG. SEALED (PROV)

DRW. 1 S/L CHD S/L TRD B6 COMP ASSY DRG ARDE 1248/1 SHT. 1

CD S/L PASSED S/L SCALE: 2:1 DESIGN AUTHORITY

APPROVED EST MASS: ARDE PUNE - 411021

Gauge Schd. DATE:

MATL: STEEL TO IS: 1570, C-20, COLD ROLLED SHEET.

PROTECTIVE FINISH: 24

TITLE: DRG. NO.

ARDE 1248

DET. No 4 SHTS SHT NO.

PART NO

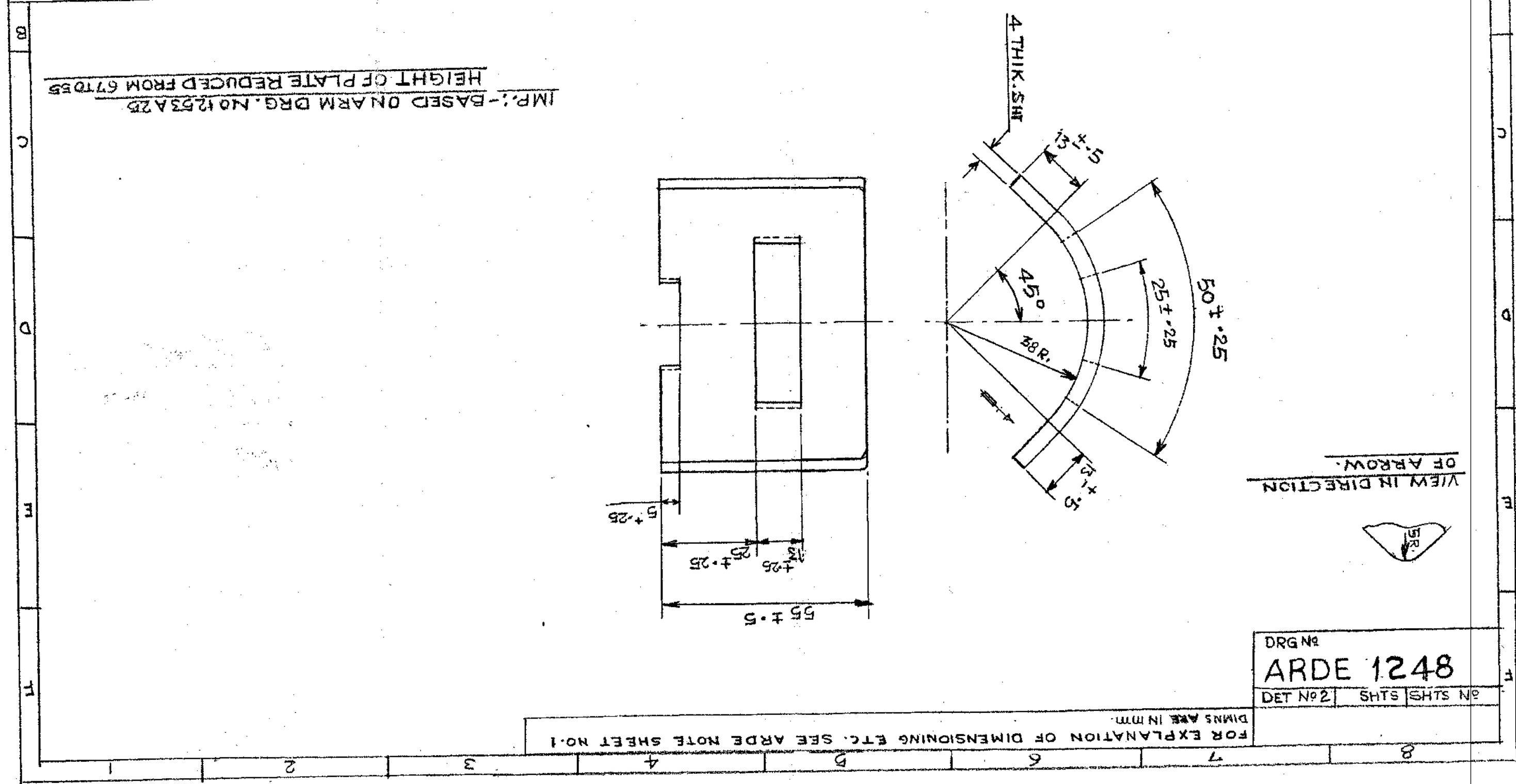
D.S. CAT. NO

A.H.S.P.

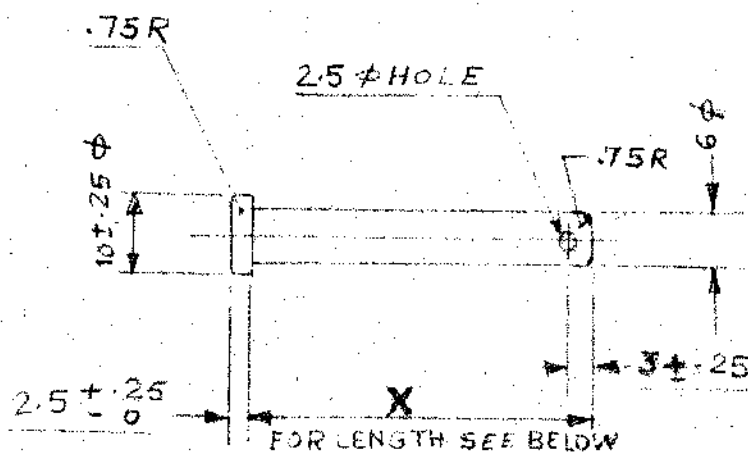
ALTERNATIVE CLIP

CORNER PLATE

A.H.S.P.	
D.S.CAT. NO.	
PART NO.	
DET NO 2	SHTS
SHT NO	
ARDE 1248	
DRG NO.	
PROTECTIVE FINISH:-SEE DRG NO. ARM 1253 D 18	
MATERIAL:-STEEL TO SPEC. B.S. 1449 EN 2 A.	
DATE:	
APPROVED:	
GAGE SCHED.	
EST MASS:	
SCALE:- 1:1	
CD	
DRN: NCL	
CHD. S/L	
TRD B/L	
COMP. L.	
ASSY DRG ARDE 2269/2	
DESIGN AUTHORITY	
ARDE PUNE 411021	
ARDE 1248	
SHT NO	
SHTS	
PART NO.	
D.S.CAT. NO.	
A.H.S.P.	



ARM 1253 A15



LENGTH - X

PIN "A" ITEM 4 - $38 \pm .5$ PIN "B" ITEM 5 - $45 \pm .5$

TO BE ELECTROGALVANISED TO SPECN.

IS: 1573 - FE ZN 25 & PASSIVATED

TO IS: 1340

4	18/96	-	DRG. RETRACED WITHOUT CHANGE	sd/-
3	24/75	-	DRG. RETRACED WITH OUT CHANGE	sd/-
2	5/72	-	REVISED VIDE A.L. No - 171	sd/-
1	20/23	-	PROV. SEALED	

DATE	ZONE	BRIEF RECORD	INITIAL	R.NO	DATE	ZONE	BRIEF RECORD
		DATE	INITIAL	DIMENSIONS ARE IN MM.			
OGN				MATE. SPEC.			
DRN				STEEL TO IS: 1570 - C20			
CNO	26/7/96			SEC. REF. NO.			
TCD	26/7/96			GAUGE SCHD. NO.			
COMC				DRG. LIST. NO. ARM 1253			
SCALE: 1:1				TITLE			
TOL. - TOL. EXCEPT				PIN			
UNLESS OTHERWISE SPECIFIED TO IS: 2102				APPROVED			
				DRG. NO.			
				ARM 1253 A15			