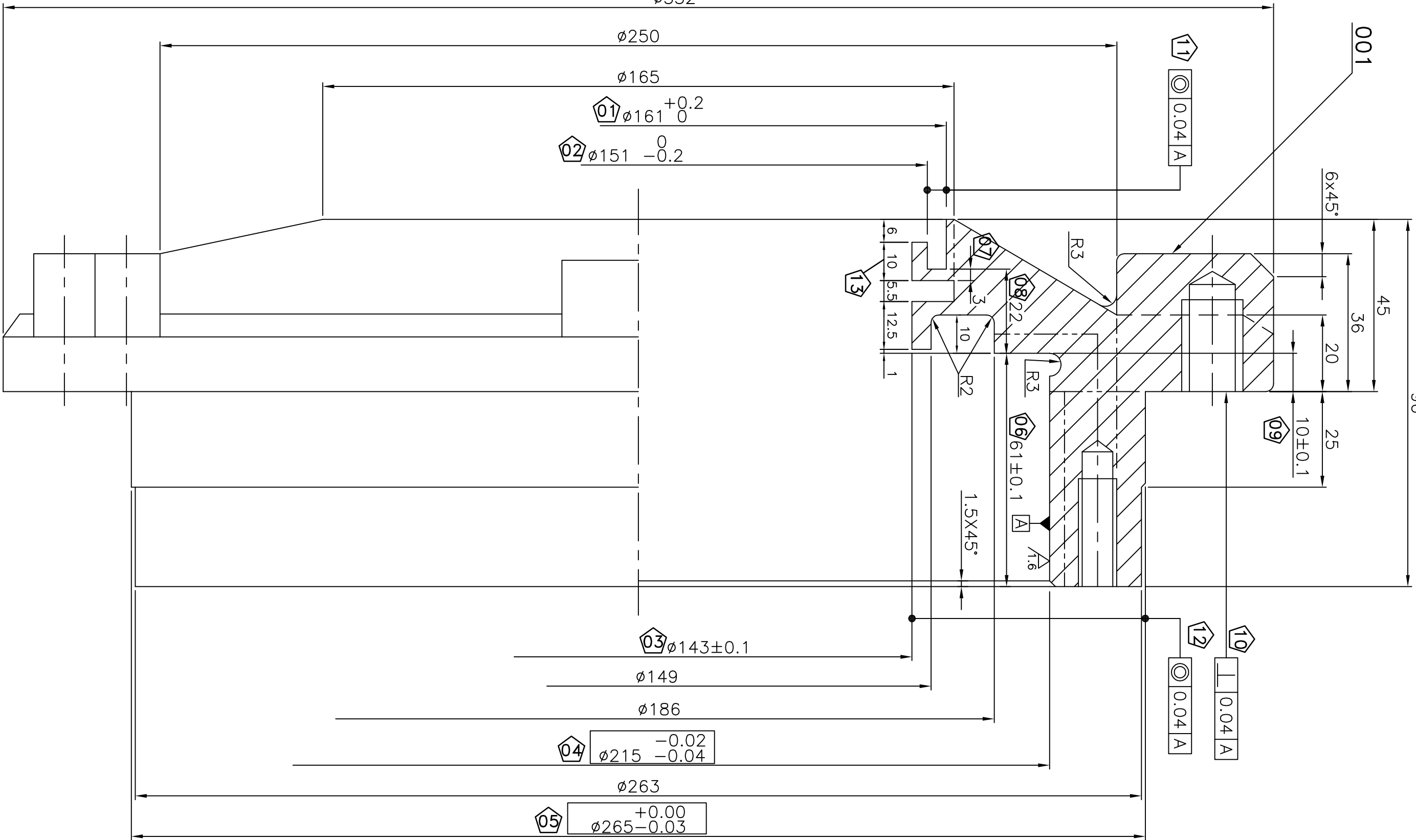
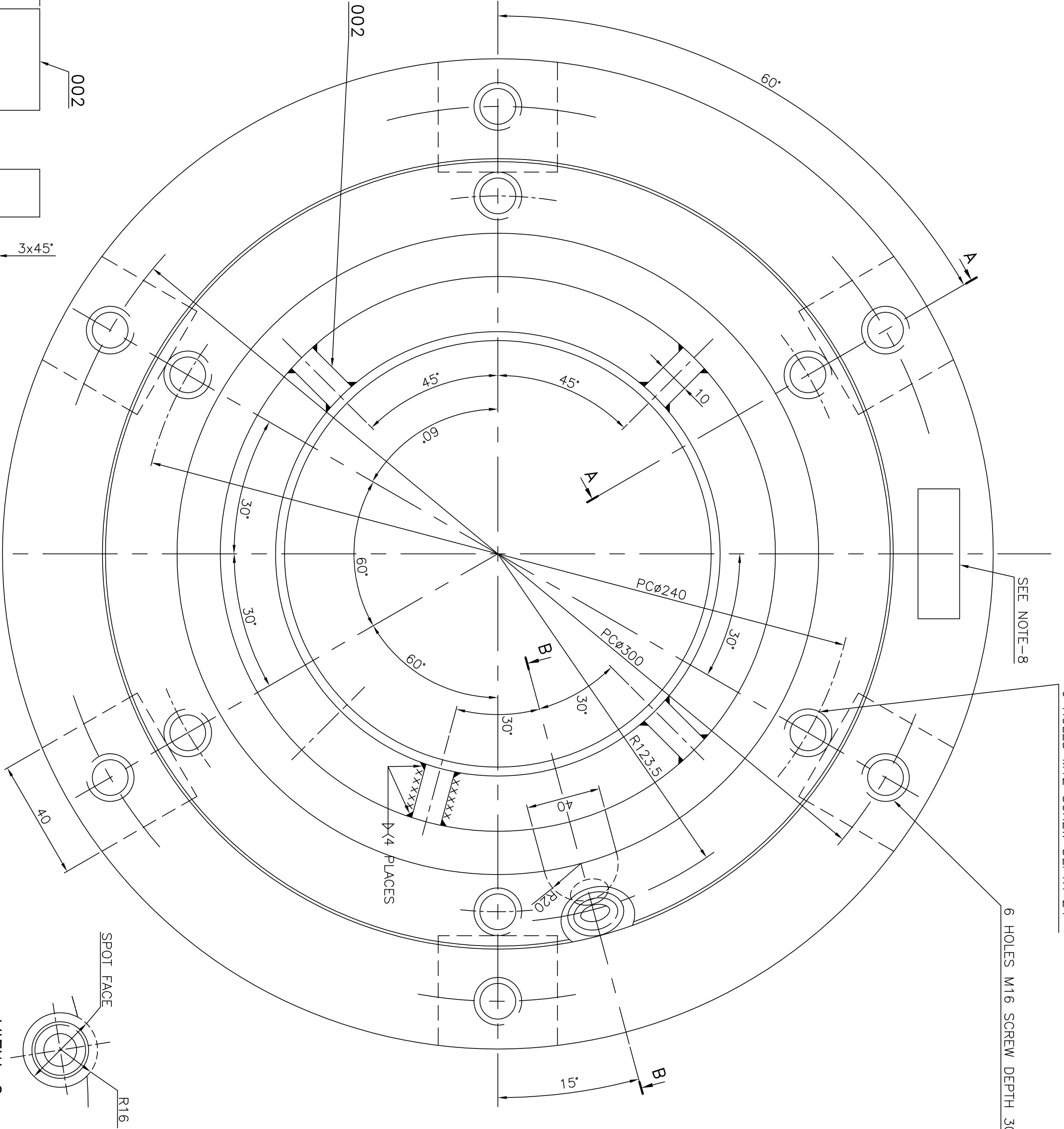


100824766241 ON 2860



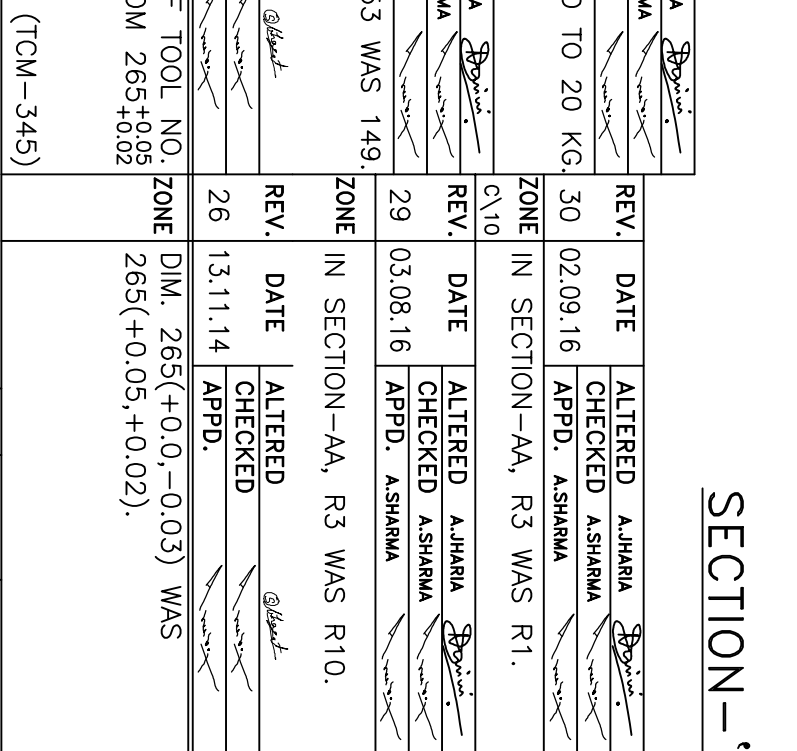
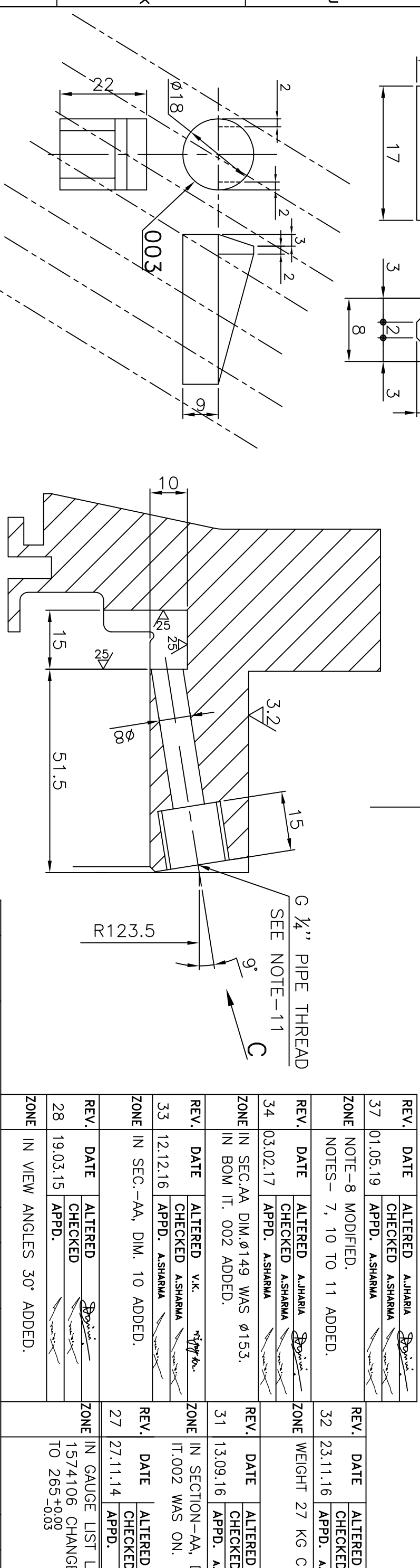
GAUGE LIST				
LIMIT	NOM	SYM	TOOL NO.	IT.NO. TYPE
143 +0.1 -0.1	1574099	001	RING	
265.60/265.65 (S/F)	1574102	001	CALLIPER	
214.60/214.65 (S/F)	1574103	001	PIN	
265 +0.00 -0.03	1574106	001	CALLIPER	
215-0.04	1574107	001	PIN	
143 +0.1 -0.1	1574109	001	ADAPTER	
61 +0.1 -0.1	1574111	001	LENGTH	
1574101	1574406	001	SNAP	
10±0.1	1574408	001	STEP	
143±0.1	1574522	001	PIN (FINISH)	
151-0.2	1574677	001	CAL	

TOOL LIST	
IT TOOL NO.	DESCRIPTION
0011574097	LENGTH GAUGE FOR 45 MM.
0011574098	LENGTH GAUGE FOR 36 MM.
0011574100	GROOVE GAGE GAUGE 5MM X 13 DEEP
0011574101	PROFILE CKG. GAUGE FOR R10
0011574104	SNAP GAUGE 96 MM
0011574105	DRILL JIG FOR ALL HOLES
0011574108	DEPTH GAUGE FOR 25MM
0011574110	DRILL JIG FOR ANGULAR HOLE OF 80 & 1/4 BSP TAP ANGULAR PLATE
0011574283	ADAPTER RING-332-H7-BIA-
0011574109	GRINDING FIXTURE WITH ADAPTER RING 143±0.1
0011574407	TOOL SETTING BAR FOR 51MM.
0011574678	GROOVE CKG. GAUGE 5.2X13 DEEP
0011574716	SNAP GAUGE FOR DIA 149
0011574717	LENGTH GAUGE FOR 6.10.5.5 AND 12.5 MM
0011574718	SNAP GAUGE 186 MM

STYLE NO.	
S.NO.	DESCRIPTION
1	BEARING CARTRIDGE BP9094716860 M/CD

NOTES:-

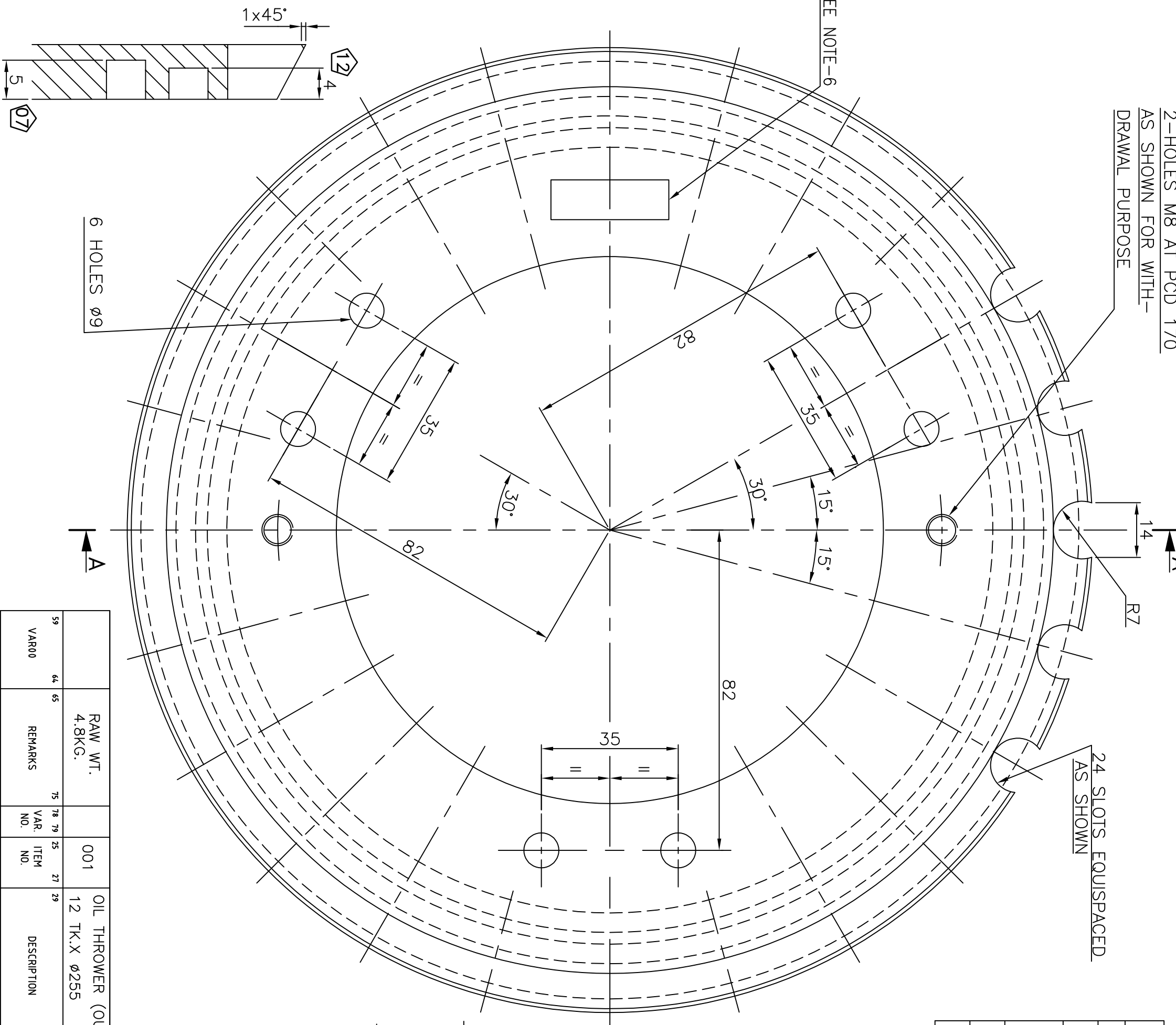
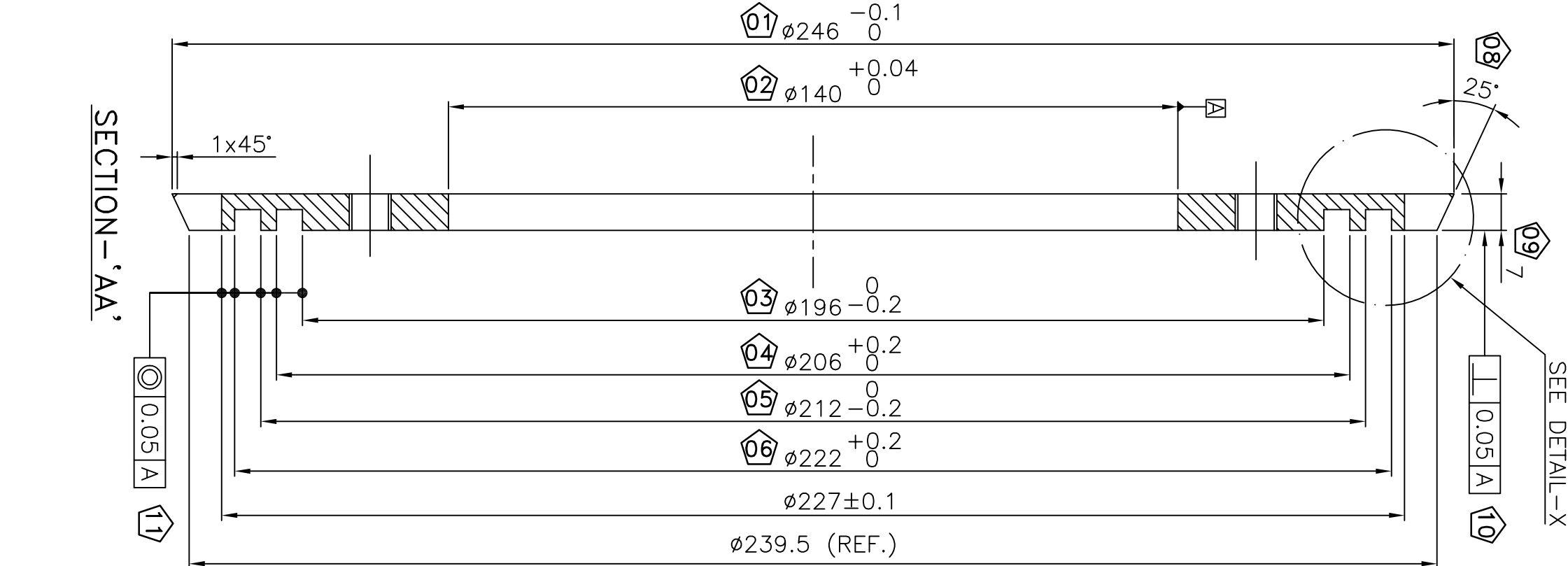
- BEARING CARTRIDGE CASTING TO BE PAINTED WITH RED OXIDE-PRIMARY PAINT TO TM 94247.
- ALTERNATIVELY IT, 001 CAN BE MANUFACTURED BY STEEL PLATE TO AA10108 (100THK.X340SO).
- MACHINE ALL OVER.
- DIMS.-IN-SQUARE IN THE ARE CRITICAL TO QUALITY WITHIN 0.04mm.
- ALL CASTING TOLERANCES TO BE AS PER IS-4897 CLASS-2.
- ALL 13 NOS. "O" MARKED DIMENSIONS ARE CRITICAL TO QUALITY (CTQ) & SL. NO. OF CTQ DIMENSIONS ARE INSCRIBED IN 9.9.13.
- QUALITY CHECKING OF BEARING CARTRIDGE CE TO BE DONE AS PER TM12545 AND QUALITY CHECKING OF BEARING CARTRIDGE CE CASTING TO BE DONE AS PER QTM/GAP/VENDOR/13-14/001 (LATEST REVISION).
- IDENTIFICATION MARKING OF BEARING CARTRIDGE CE TO BE DONE AS PER TM12548 AT THE LOCATION SHOWN.
- TEMPORARY RUST PREVENTIVE (TRP) TO BE APPLIED ON MACHINED SURFACES AS PER AA55152.
- CASTING FOR BEARING CARTRIDGE CE SHALL BE FROM LATEST RDSO APPROVED CLASS 'A' FOUNDRY.
- GREASE HOLES DIA 8 MM TO BE THOROUGHLY CLEANED & FREE FROM CHIPS. SAME IS TO BE ENSUREDBY CHECKING WITH A STEEL BAR OF DIA. 7 MM AND MINIMUM 55 MM LENGTH.



A'												
SURFACES AS PER AA55152.												
10. CASTING FOR BEARING CARTRIDGE CE SHALL BE FROM LATEST RDSO APPROVED CLASS 'A' FOUNDRY.												
11. GREASE HOLES DIA 8 MM TO BE THOROUGHLY CLEANED & FREE FROM CHIPS. SAME IS TO BE INSUREDBY CHECKING WITH A STEEL BAR OF DIA. 7 MM AND MINIMUM 55 MM LENGTH.												
001	001	003	NIPPLE HOUSING- ø18x22									
004	002		PLATE 81K.x10x17									
001	001		BEARING CARTRIDGE									
					34334428005							
59	64	65	75	76	77	78	79	80	81	82	83	84
VAR.00	REMARKS		VAR ITEM NO.	DESCRIPTION	VAR	ITEM NO.	DRAWING NO.					
28	CARD	TYPE-3	28		CARD TYPE-1	TYPE OF PRODUCT OR	TMA303		BY DY			
					28	CARD TYPE-2						

A'												
SURFACES AS PER AA55152.												
10. CASTING FOR BEARING CARTRIDGE CE SHALL BE FROM LATEST RDSO APPROVED CLASS 'A' FOUNDRY.												
11. GREASE HOLES DIA 8 MM TO BE THOROUGHLY CLEANED & FREE FROM CHIPS. SAME IS TO BE INSUREDBY CHECKING WITH A STEEL BAR OF DIA. 7 MM AND MINIMUM 55 MM LENGTH.												
28 — CARD TYPE-2												
TMA 303 BY DY												
28 — CARD TYPE-1												
ADDITIONAL INFORMATION												
28 — CARD TYPE-3												
VAR.00												
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VAR.00 REMARKS												
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TOOL LIST

IT. NO.	TOOL NO.	DESCRIPTION
001	1574290	GROOVE CHECKING GAUGE 5X4 DEEP
001	1574293	DRILL JIG FOR ALL HOLES (TAKING REF. FROM MILLED TEETH NO.)
001	1574294	MANDREL WITH CLAMPING ARRANGEMENT
001	1574385	GROOVE CHECKING GAUGE 5X4 DEEP

GAUGE LIST

LIMIT	NOM SIZE	TOOL NO.	IT.NO.	SYM
+0.04 140 0		1574291	001	PIN
-0.1 246 0		1574292	001	CALLIPER GAUGE

STYLE LIST

IT.NO.	STYLE NO.
001	BP9094715414

NOTES:-

- ALL OVER EXCEPT OTHERWISE STATED REMOVE SHARP CORNERS.
- FINISH MACHINING OF DIAMETERS TO BE DONE TO MAINTAIN CONCENTRICITY WITHIN TIR 0.05 WITH REF. TO DIA. "A".
- THESE FACES TO BE PERPENDICULAR WITHIN 0.05 THRU.
- ALL 12 NOS. "V" MARKED DIMENSIONS ARE CRITICAL TO QUALITY (CTQ) & SL. NO. OF CTQ DIMENSIONS ARE INSCRIBED IN e.g. 13.
- QAP FOR FORGINGS TO BE AS PER QTM/QAP/VENDOR/ 13-14/002 (LATEST REV.).
- SUPPLIER'S INITIAL/TRADE MARK, MANUFACTURER'S SERIAL NO., BHEL PO NO., BATCH NO. & DATE OF MFG. IN MM-YY FORMAT TO BE ETCHED AT THE SHOWN LOCATION.

THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED.
IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
16	07.09.18	CHECKED	APPROVED	15	26.09.14	CHECKED	APPROVED
ZONE IN GAUGE LIST, DESCRIPTION OF TOOL NO. 1574292 MODIFIED TO CHANGE DIMENSION TO 246. (TCM-353)				DIMS. 246 & 239.5 WERE 247 & 240.5.			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
11	06.05.14	CHECKED	APPROVED	10	10.06.13	CHECKED	APPROVED
IN SECTION-'AA' CHAMFER 1x45° ARE "V" MARKED & NUMBERED. NOTE-4 MODIFIED.				CRITICAL TO QUALITY DIMENSIONS ARE "V" MARKED & NUMBERED. NOTE-2 & 3 DELETED AND NOTE-4, 5 & 6 ADDED.			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
09	12.10.11	CHECKED	APPROVED	08	18.9.09	CHECKED	APPROVED
VIEW DIM. 140+0.40 WAS 140+0.40				DRG. REDRAWN & UPDATED. SECTION-'AA' DIM. 240.5 WAS 240.			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
STYLE NO. FOR IT.001 WAS NOT ON.				DESCRIPTION OF 24 SLOTS ADDED. (REF. F/3,4)			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
STATUS OF DRAWING				DISTRIBUTION OF PRINTS			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT				TM 4303 BY,DY			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
BPHARAT HEAVY ELECTRICALS LTD. BHOPAL				25 KV BG AC EMU/1400 HP DEMU			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
GRADE OF UN. TO. DIM. 2/M/F				SCALE NTS 1.4			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
DRAWING NO. 24394328004				ITEM NO. 006			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
NO. OF MARK. 001				ITEM NO. 006			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
NO. OF MARK. 001				ITEM NO. 006			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
NO. OF MARK. 001				ITEM NO. 006			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
NO. OF MARK. 001				ITEM NO. 006			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
NO. OF MARK. 001				ITEM NO. 006			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
NO. OF MARK. 001				ITEM NO. 006			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
NO. OF MARK. 001				ITEM NO. 006			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
NO. OF MARK. 001				ITEM NO. 006			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
NO. OF MARK. 001				ITEM NO. 006			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
NO. OF MARK. 001				ITEM NO. 006			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
NO. OF MARK. 001				ITEM NO. 006			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
NO. OF MARK. 001				ITEM NO. 006			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
NO. OF MARK. 001				ITEM NO. 006			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
NO. OF MARK. 001				ITEM NO. 006			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
NO. OF MARK. 001				ITEM NO. 006			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
NO. OF MARK. 001				ITEM NO. 006			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
NO. OF MARK. 001				ITEM NO. 006			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
NO. OF MARK. 001				ITEM NO. 006			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
NO. OF MARK. 001				ITEM NO. 006			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
NO. OF MARK. 001				ITEM NO. 006			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
NO. OF MARK. 001				ITEM NO. 006			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
NO. OF MARK. 001				ITEM NO. 006			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
NO. OF MARK. 001				ITEM NO. 006			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
NO. OF MARK. 001				ITEM NO. 006			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
NO. OF MARK. 001				ITEM NO. 006			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
NO. OF MARK. 001				ITEM NO. 006			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
NO. OF MARK. 001				ITEM NO. 006			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
NO. OF MARK. 001				ITEM NO. 006			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
NO. OF MARK. 001				ITEM NO. 006			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
NO. OF MARK. 001				ITEM NO. 006			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
NO. OF MARK. 001				ITEM NO. 006			

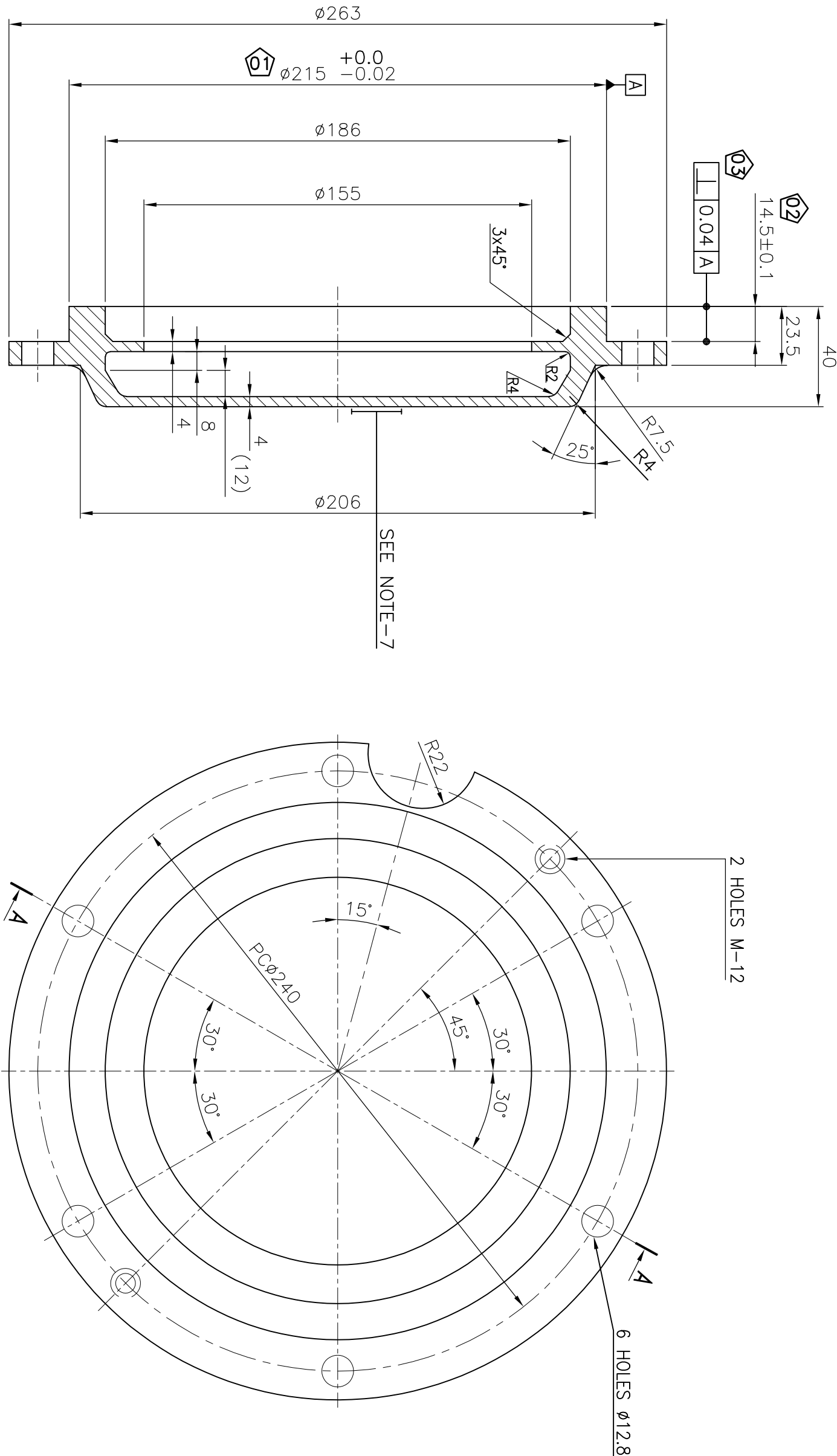
REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14	CHECKED	APPROVED	00	04.08.14	CHECKED	APPROVED
NO. OF MARK. 001				ITEM NO. 006			

REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
01	04.08.14						

8

TOOL LIST		
IT NO.	TOOL NO.	DESCRIPTION
001	1574039	PROFILE CKS,GAUGE FOR 25
001	1574040	SNAP GAUGE 12.5MM
001	1574042	LENGTH GAUGE 40 MM
001	1574043	DRILL JIG FOR ALL HOLES
001	1574045	LENGTH GAUGE 22.5MM

GAUGE LIST					
LIMIT	NOM SIZE	SYM	TOOL NO.	IT.NO	TYPE
215.6 (S/F) 215.65			1574041	001	CALLIPER
215 ⁰ -0.02			1574044	001	CALLIPER
-11 ±0.1 +0.02			1574046		DEPTH—
14.5±0.1			1574411		DEPTH



SECTION - 'AA'

- NOTES:-
1. ALTERNATIVELY ITEM 001 CAN BE MADE FROM STEEL PLATE (45TKxØ270) TO AA10108.
 2. ~~CASTING TOLERANCE TO AA 0230402 CLASS 4.~~
 3. MACHINE ALL OVER ²⁹✓
 4. ~~THESE FACES MUST BE SQUARE WITH DIA 215+0-02 WITHIN 0.04 THR.~~
 5. ALL Ø3 NOS. '◊' MARKED DIMENSIONS ARE CRITICAL TO QUALITY (CTQ) & SL. NO. OF CTQ DIMENSIONS ARE INSCRIBED IN ◊ e.g. ◊3.
 6. ~~QAP FOR CASTINGS TO BE AS PER QTM/QAP/VENDOR/-13-14/001 (LATEST REV.)~~
 7. EACH COMPONENT SHALL BE LEGIBLY MARKED WITH THE FOLLOWING INFORMATION BY MACHINING SUPPLIER:
 - a) SUPPLIER'S NAME.
 - b) SUPPLIER'S UNIQUE 4 DIGIT IDENTIFICATION CODE.
 - c) BHEL PO NO.
 - d) MONTH & YEAR OF FINAL MACHINING.
 8. ACTUAL WEIGHT OF THE COMPONENT MAY BE WITHIN ±10% OF INDICATED WEIGHT.

SEE NOTE-1				001		BEARING END COVER		1		34394428006								KG		6.00							
59				64		65		75		78		79		25		27		29		58		59		60			
VAR.00				REMARKS		VAR		ITEM		NO.		NO.		DESCRIPTION		STD.		DRAWING NO.		77		78		79		80	

REV.	DATE	ALTERED	CHECKED	APPROVED	APPROVED	REV.	DATE	ALTERED	CHECKED	APPROVED	APPROVED	REV.	DATE	ALTERED	CHECKED	APPROVED	APPROVED	REV.	DATE	ALTERED	CHECKED	APPROVED	APPROVED
14	07.09.18	APPROVED	APPROVED	APPROVED	APPROVED	13	23.11.16	APPROVED	APPROVED	APPROVED	APPROVED	12	30.04.14	APPROVED	APPROVED	APPROVED	APPROVED	11	10.06.13	APPROVED	APPROVED	APPROVED	APPROVED
IN GAUGE LIST, DESCRIPTION OF TOOL NO. 157444 ADDED TO CHANGE TOLERANCE TO (0, -0.02).						WEIGHT 6 KG CHANGED TO 4.5 KG.						IN BOW DRG. 34394428006 ADDED. NOTES--2 & 6 WERE ON. NOTE--7 MODIFIED.						CRITICAL TO QUALITY DIMENSIONS ARE "X" MARKED & NUMBERED NOTE-4 DELETED AND NOTE--5, 6 & 7 ADDED.					
(TCM-353)																							

ADDITIONAL INFORMATION		TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT		TM 4303 BY/DY		
STATUS OF DRAWING				25KV BG AC EMU/1400 HP DEMU		
DISTRIBUTION OF PRINTS						
TME-1						
TMM-3,						
TMN-3						
		BHARAT HEAVY ELECTRICALS LTD.				
		BHOPAL				
		DRN	NAME	SIGN	DATE	NO. OF VAR.
		V/RD		Sd	8.5.89	
		OKD	SGD	Sd	12.5.89	
		APPD	AKD	Sd	14.7.89	

[illegible]

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A2 SIZE

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

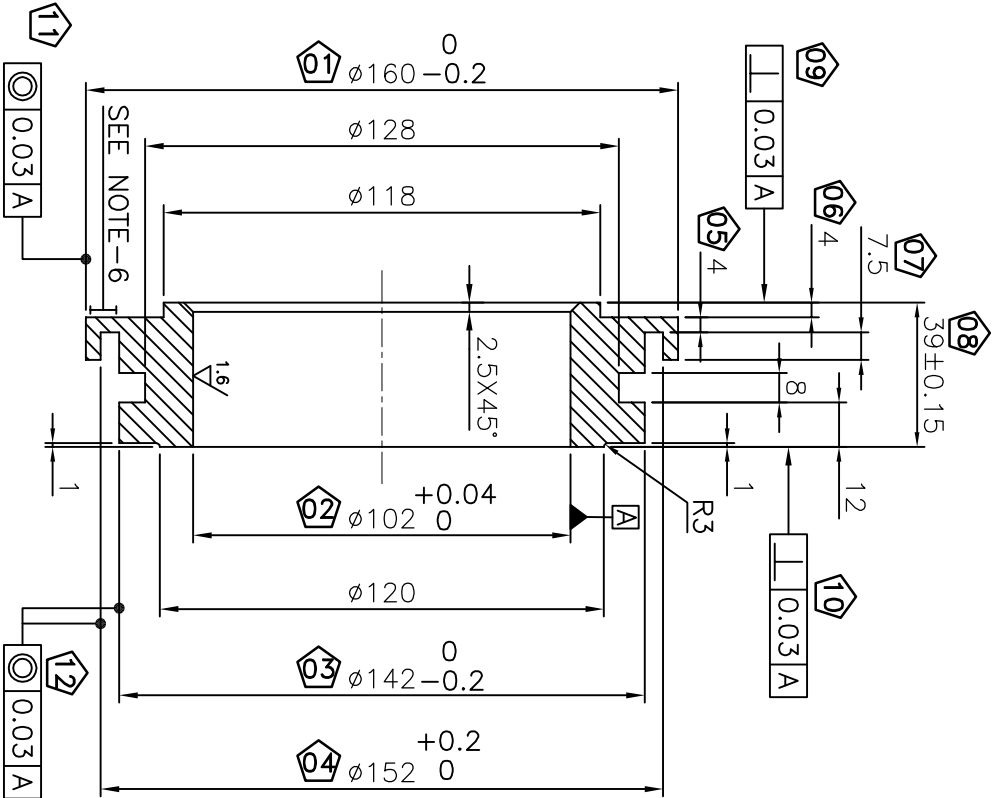
20082446342 ON DRG

STYLE LIST		
VAR.	IT. NO.	ST.NO.
-	001	BP9094715503

TOOL LIST

IT.NO	TOOL NO	DESCRIPTION
001	1574114	GROOVE CKG GAUGE 8 WIDEX7 DEEP
001	1574113	GROOVE CKS GAUGE 8 WIDEX7.5 DEEP
001	1574684	GROOVE CKG GAUGE 5.2x7.5
001	1574678	GROOVE CKG GAUGE 5.2x13

GAUGE LIST					
LIMIT	NOM SIZE	SYMBOL	TOOL NO	IT.NO.	TYPE
442 ^{+0.1} _{-0.1}			1574112	001	GAL
102 +0.040			1574115	001	PIN
160 ^{+0.10} _{-0.10}			1574116	001	CAL
39±0.15			1574117	001	SNAP
142-0.2			1574679	001	CAL
160-0.2			1574680	001	CAL



NOTES:-

- 20° ALL OVER EXCEPT OTHERWISE STATED REMOVE SHARP CORNERS.
- FINISH MACHINING OF DIAMETERS TO BE DONE TO MAINTAIN CONCENTRICITY WITHIN TIR 0.03 WITH REF. TO DIA.
- THESE FACES TO BE PERPENDICULAR WITHIN TIR 0.03.
- ALL 12 NOS. "◇" MARKED DIMENSIONS ARE CRITICAL TO QUALITY (CTQ) & SL. NO. OF CTQ DIMENSIONS ARE INSCRIBED IN ◇ e.g. 12.
- GAP FOR FORGINGS TO BE AS PER QTM/QAP/VENDOR/ 13-14/002 (LATEST REV.).
- SUPPLIER'S INITIAL/TRADE MARK, MANUFACTURER'S SERIAL NO., BHEL PO NO., BATCH NO. & DATE OF MFG. IN MM-YY FORMAT TO BE ETCHED AT THE SHOWN LOCATION.

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INVENTORY NO.	SIGN. & DATE	REF. DRG. NO.
---------------	--------------	---------------

REV.	DATE	ALTERED
12	10.06.13	CHECKED APPROVED
CRITICAL TO QUALITY DIMENSIONS ARE "◇" MARKED & NUMBERED. NOTE-2 & 3 DELETED AND NOTE-4, 5 & 6 ADDED.		

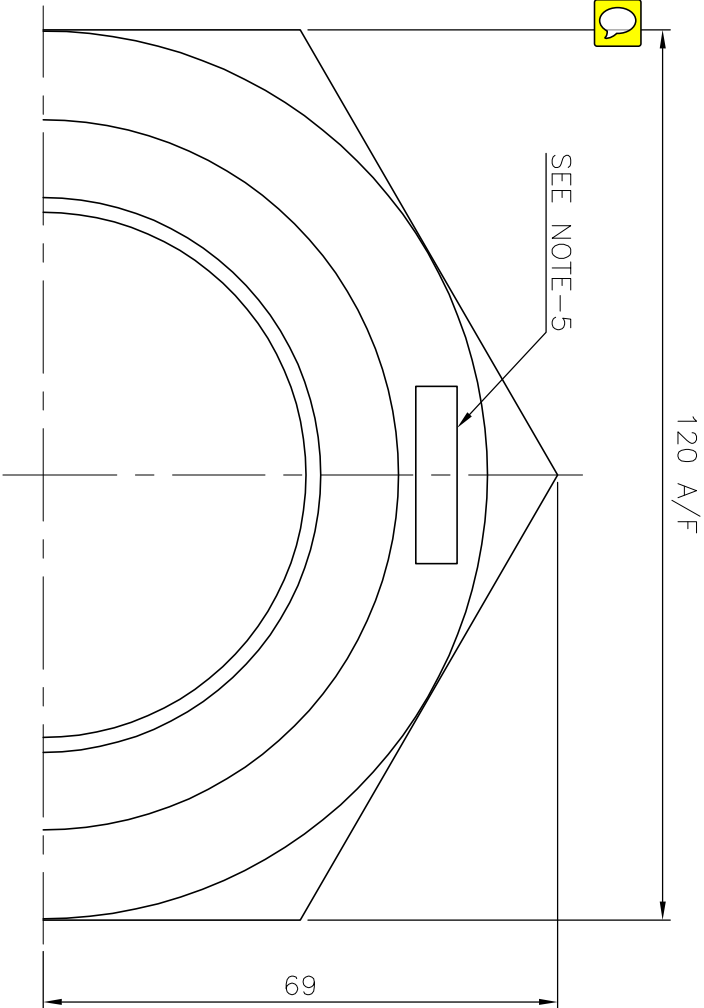
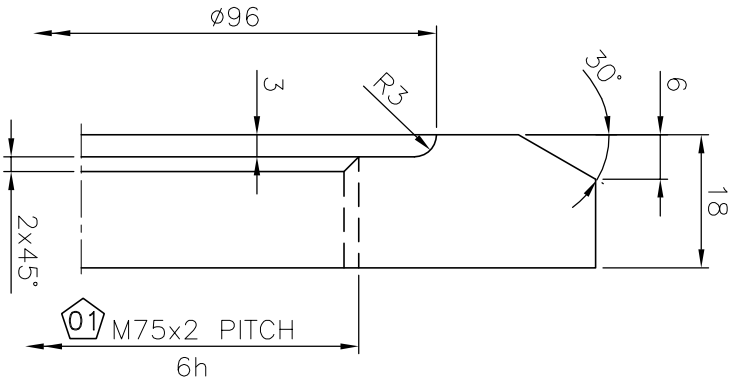
REV.	DATE	ALTERED
13	31.05.14	CHECKED APPROVED
CRITICAL TO QUALITY DIMENSIONS ARE "◇" MARKED & NUMBERED. NOTE-4 MODIFIED.		
REV.	DATE	ALTERED
11	20.10.11	CHECKED APPROVED
VIEW DIM. $\phi 102^{+0.04}_0$ WAS $\phi 102^{+0.040}_0$		

ADDITIONAL INFORMATION			
STATUS OF DRAWING			
DISTRIBUTION OF PRINTS			
TME-1 TXM-3			
TNX-1			
REV.	DATE	ALTERED	CZ
10	07.7.09	CHECKED APPROVED	DK SA
DRAWING UPDATED & DIGITIZED.			

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT			
25KV BG AC EMU/1400 HP DEMU			
TM 4303 BY/DY			
BHARAT HEAVY ELECTRICALS LTD. BHOPAL			
DEPT	TME	GRADE OF UNTOOL DIM	SCALE
405	AA0230208	ϕ /M/F	NTS
WGT	WGT (K.G.)	REF. TO ASSY. DRG.	ITEM NO.
2.2	14394428002	14394428002	005
NAME	SIGN	DATE	NO. OF VAR
V.R.D.	Sd	09.5.89	
S.K.G.	Sd	12.5.89	
A.K.D.	Sd	14.7.89	
DRAWING NO. 34394428002			
REV. 13			

30082746373

DRG. NO.



TOOL LIST	
IT. NO.	TOOL NO.
001	1574682
	THREAD PLUG GAUGE M75x2

STYLE LIST		
VAR.	IT.NO	ST.NO
001		BP9094715481

NOTES:-

1. REMOVE ALL SHARP CORNERS AND EDGES.
2. $\frac{3}{4}$ ALL OVER.
3. ALL 01 NOS. “” MARKED DIMENSIONS ARE CRITICAL TO QUALITY (CTQ) & SL. NO. OF CTQ DIMENSIONS ARE INSCRIBED IN  e.g. 01.
4. QAP FOR FORGINGS TO BE AS PER QTM/QAP/VENDOR/13-14/002 (LATEST REV.).
5. SUPPLIER'S INITIAL/TRADE MARK, MANUFACTURER'S SERIAL NO., BHEL PO NO., BATCH NO. & DATE OF MFG. IN MM-YY FORMAT TO BE ETCHED AT THE SHOWN LOCATION.

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REF. DRG. NO.

SIGN. & DATE

INVENTORY NO.

REV.	DATE	ALTERED
07	10.6.13	CHECKED  APPROVED 

CRITICAL TO QUALITY DIMENSIONS ARE “” MARKED & NUMBERED.
NOTE-3, 4 & 5 ADDED.

REV.	DATE	ALTERED	SDB
08	26.3.21	CHECKED AS APPROVED AS	 

DIM. 69 ADDED.

REV.	DATE	ALTERED	CZ
06	14.8.09	CHECKED DK APPROVED NS	 

IN BOM MATL. SPEC. AA19333 WAS NOT ON.

VAR	OC	REMARKS	VAR.	ITEM NO.	DESCRIPTION	IT. NO.	MATL. CODE	MATL. SPECN.	KG	1.25	UNIT	WT.	S. Q.	ZONE
		RAW WT 2.2KG.		001	BEARING NUT 120A/F x 18		AA19333							

ADDITIONAL INFORMATION

STATUS OF DRAWING

DISTRIBUTION OF PRINTS

TME-1 TXM-3
TNX-1

TYPE OF PRODUCT OR
NAME OF CUSTOMER/PROJECT

TM 4303 BY/DY

25KV BG AC EMU/1400 HP DEMU



BHARAT HEAVY ELECTRICALS LTD.
BHOPAL

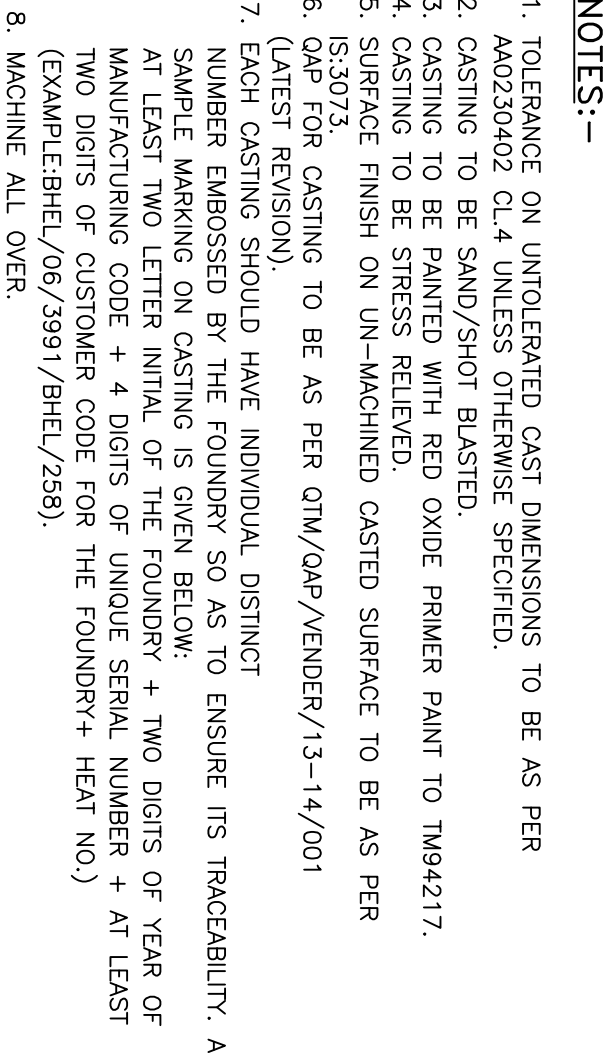
DRN	NAME	SIGN	DATE	NO. OF VAR
OKD	V.R.D.	Sd	10.5.89	
	S.K.G.	Sd	12.5.89	
APPD	A.K.D.	Sd	14.7.89	

DEPT	TME	GRADE OF UNTOOL. DIM	SCALE	WEIGHT (K.G.)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM
CODE	405	C/M/F AA0230208	NTS	1.25	14394428002	003	001

TITLE
BEARING NUT
DRAWING NO. 34394428003

SHT. No. 01 NO. OF SHT. 01

DRG. NO. 3 439 44 28 006



SECTION - 'AA'

[illegible]