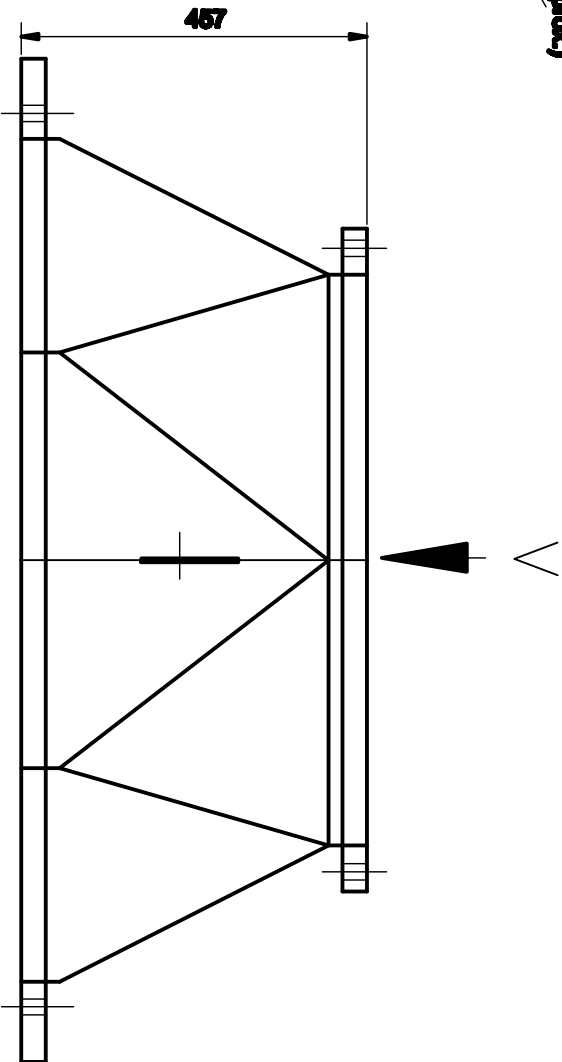
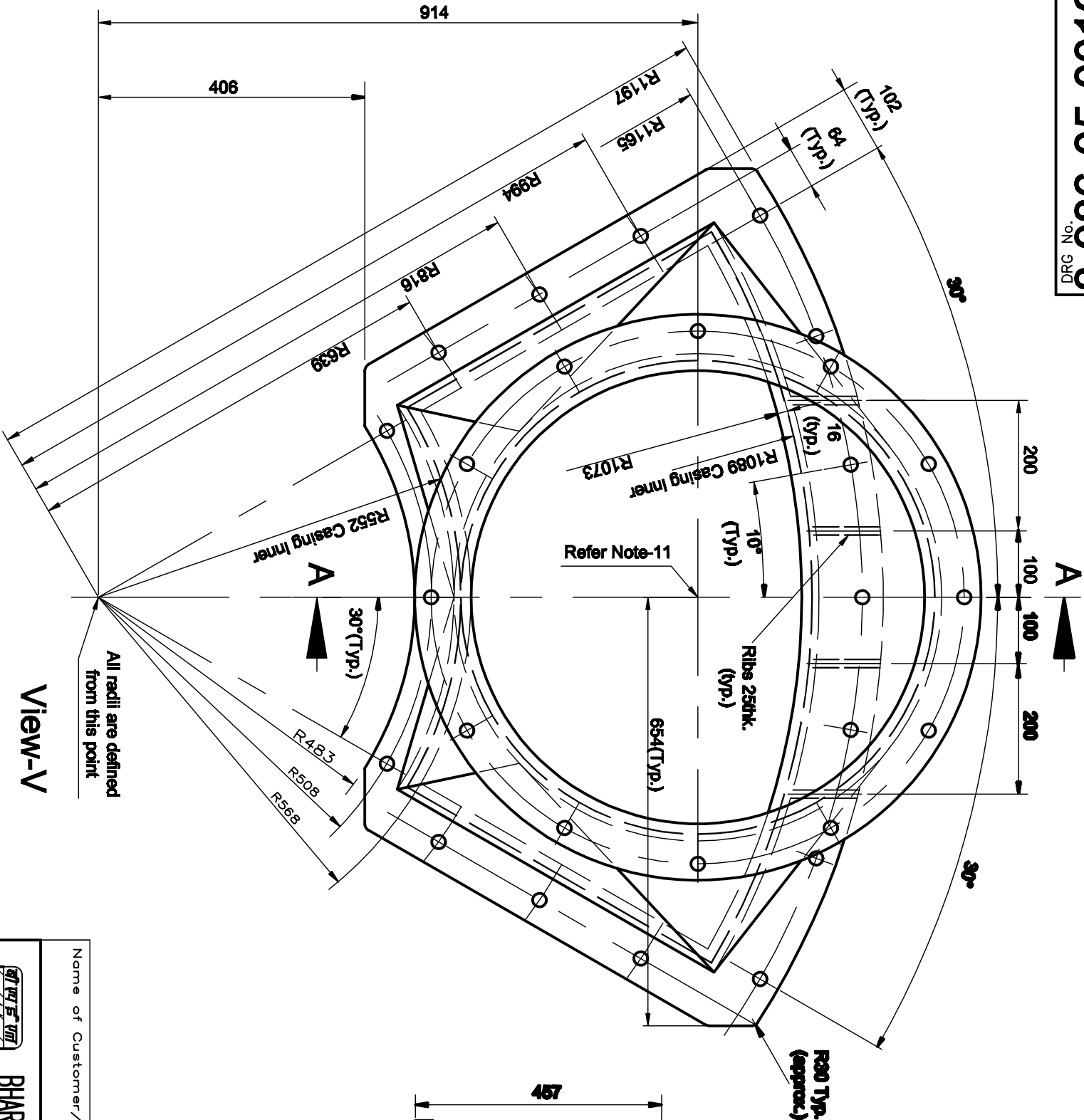


FIRST ANGLE PROJECTION

ALL DIMENSIONS ARE IN mm.

REV 00
DRG No. 16100-50-986-3



Item.No.	Description	Specification	Material	Qty. (No.s)	Approx. Unit Wt. (kgs.)
7	Lifting Lug	IS 2062 Gr.A/B	M.S.	1	1.0
6	Ribs (as shown)	IS 2062 Gr.A/B	M.S.	4	1.25
5	Base Metal Casing	IS 2062 Gr.A/B	M.S.	1	89.0
4	Top Inner Ring	IS 2062 Gr.A/B	M.S.	1	4.2
3	Top Flange	IS 2062 Gr.A/B	M.S.	1	39.5
2	Bottom Inner Ring	IS 2062 Gr.A/B	M.S.	1	5.3
1	Bottom Flange	IS 2062 Gr.A/B	M.S.	1	67.5

Name of Customer/Project



BHARAT HEAVY ELECTRICALS LTD.,
ELECTROPORCELAINS DIVISION
BANGALORE – 560 012

DRN
CHD
APPD

S. Murali
J. Felix
Ravi Mullur

SIGN

DATE
03-10-2008
03-10-2008
03-10-2008

DEPT
CODE
GRADE OF
TOL DIM
C/M/F
SCALE
N.T.S.
WEIGHT (kg)
Ref. Table above
(Approx)

REF TO ASSY.DRG
EL-DG-3-986-05-00190

ITEM No.
No. OF ITEMS

TITLE
M.S.CASING FOR M.P.O.

CARD CODE

DRAWING No.
3-986-05-00191

REV.
00

INVENTORY No.

SIGN AND DATE

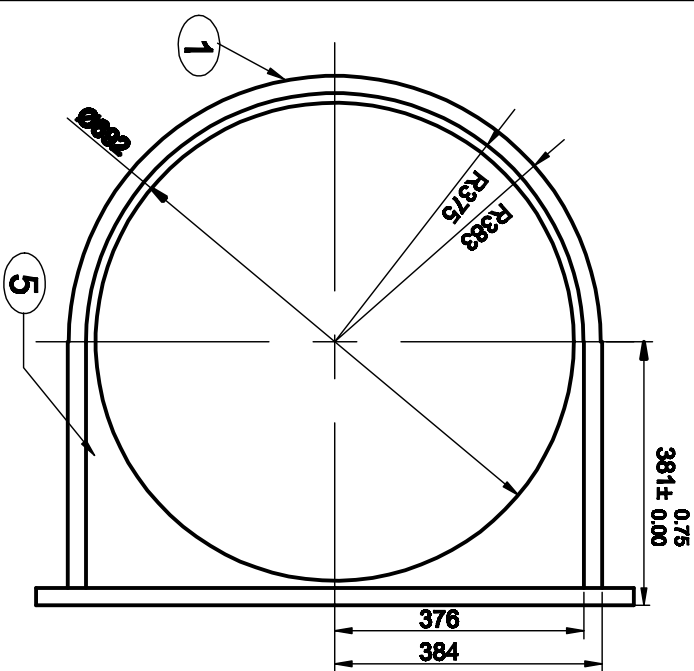
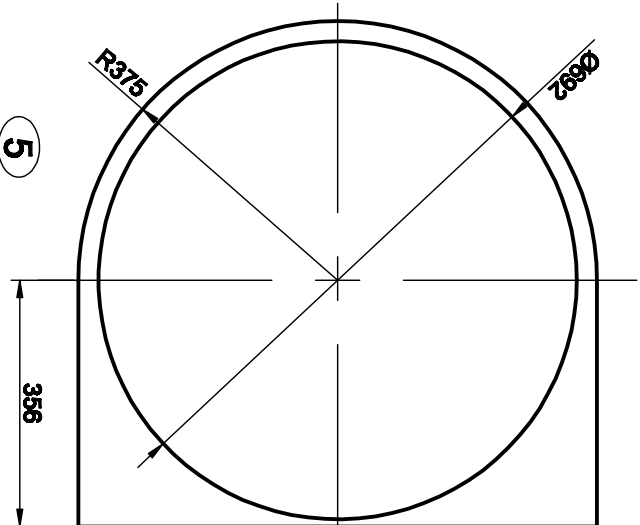
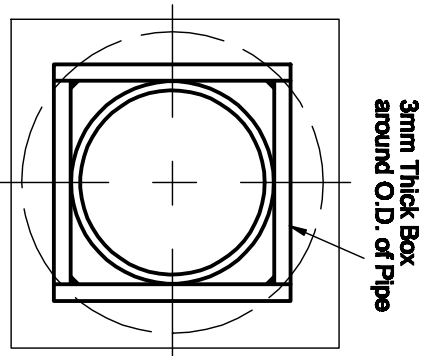
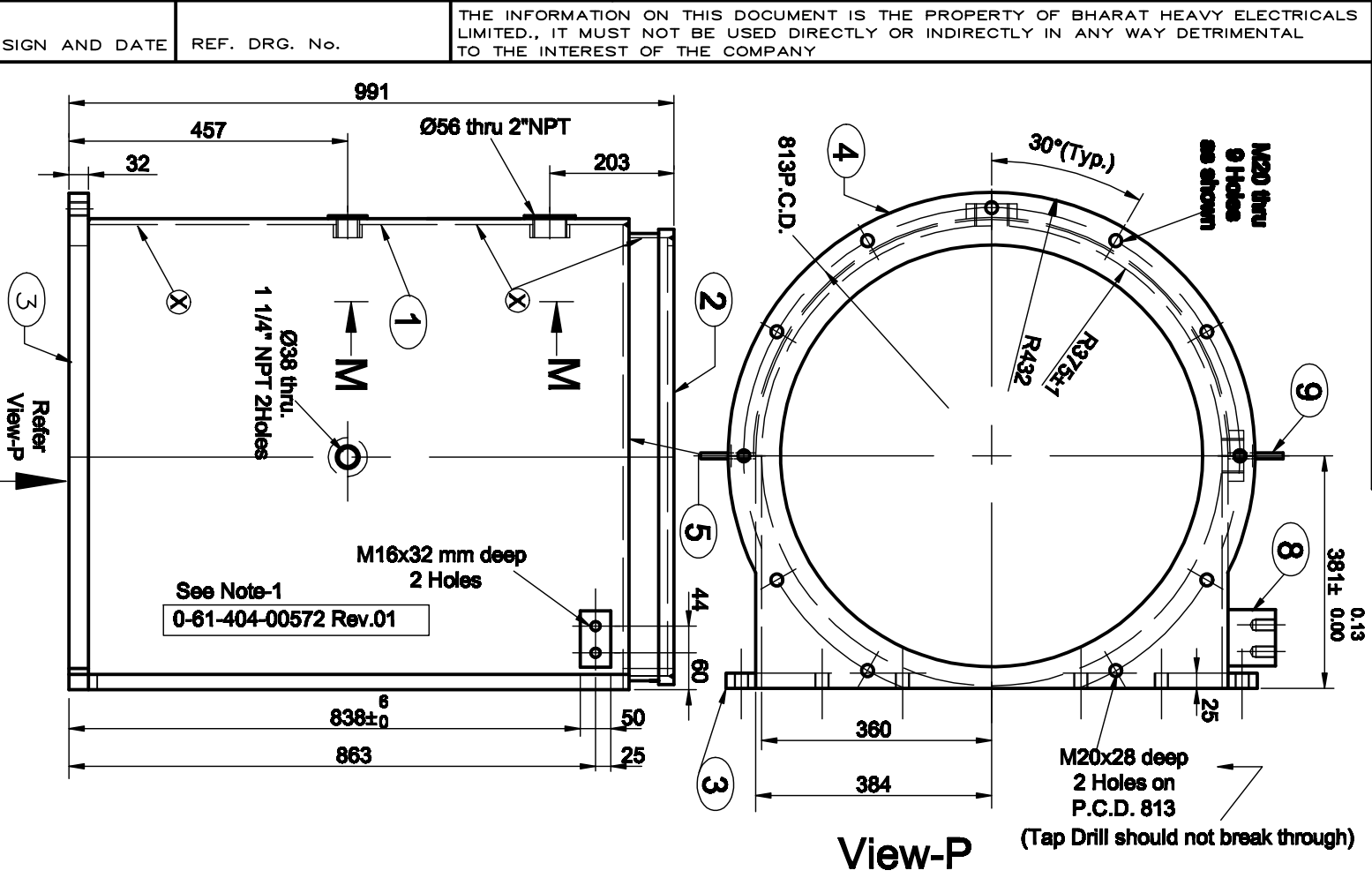
REF. DRG. No.

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

FIRST ANGLE PROJECTION

ALL DIMENSIONS ARE IN mm.

DRG No. **3-986-07-00031** REV **00**



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REF. DRG. No.

SIGN AND DATE

INVENTORY No.

REV	DATE	ALTERED	
		CHECKED	

REV	DATE	ALTERED
		CHECKED

REV	DATE	ALTERED
		CHECKED

			
BHARATI HEAVY ELECTRICALS LTD., ELECTROPORCELAINS DIVISION BANGALORE – 560 012			
	NAME	SIGN	DATE
DRN	S.Murail		Sept. 17, 2008
CHD	J.Felix		
APPD	Ravi Mullur		

Name of Customer/Project					
Item No.	Description	Specification	Material	Qty. No.	Approx. Unit Wt. (kgs.)
9	Lug	IS:2062 Gr.A	M.S.	2	1.0
8	Side Block	IS:2062 Gr.A	M.S.	1	3.0
7	NPT Tube with Sq. Box	1.25"NPTX28Long	STD.	2	0.25
6	NPT Tube with Sq. Box	2"NPTX35Long	STD.	1	0.25
5	End Plate	IS:2062 Gr.A	M.S.	1	6.5
4	Bolt Type Flange	IS:2062 Gr.A	M.S.	1	47.0
3	Rectangular Flange	IS:2062 Gr.A	M.S.	1	36.0
2	C Type Ring	IS:2062 Gr.A	M.S.	1	13.25
1	Casing	IS:2062 Gr.A	M.S.	1	106.0

TITLE		CARD	
Casing & Flanges for Valve Body		CODE	
DRAWING No.		REV.	
3-986-07-00031		00	
No. OF SHEETS: 2		Sheet No. 2	

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

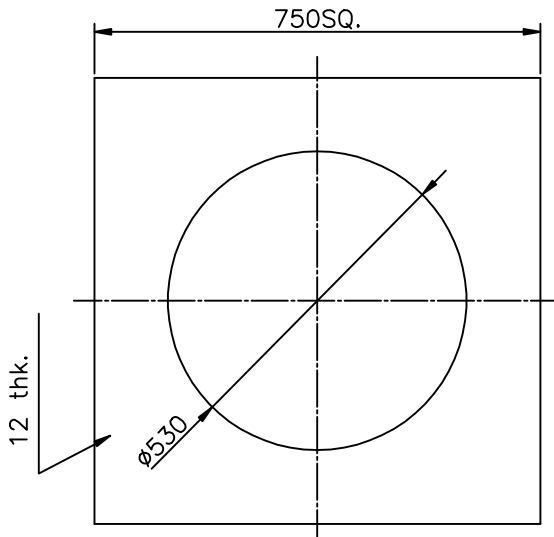
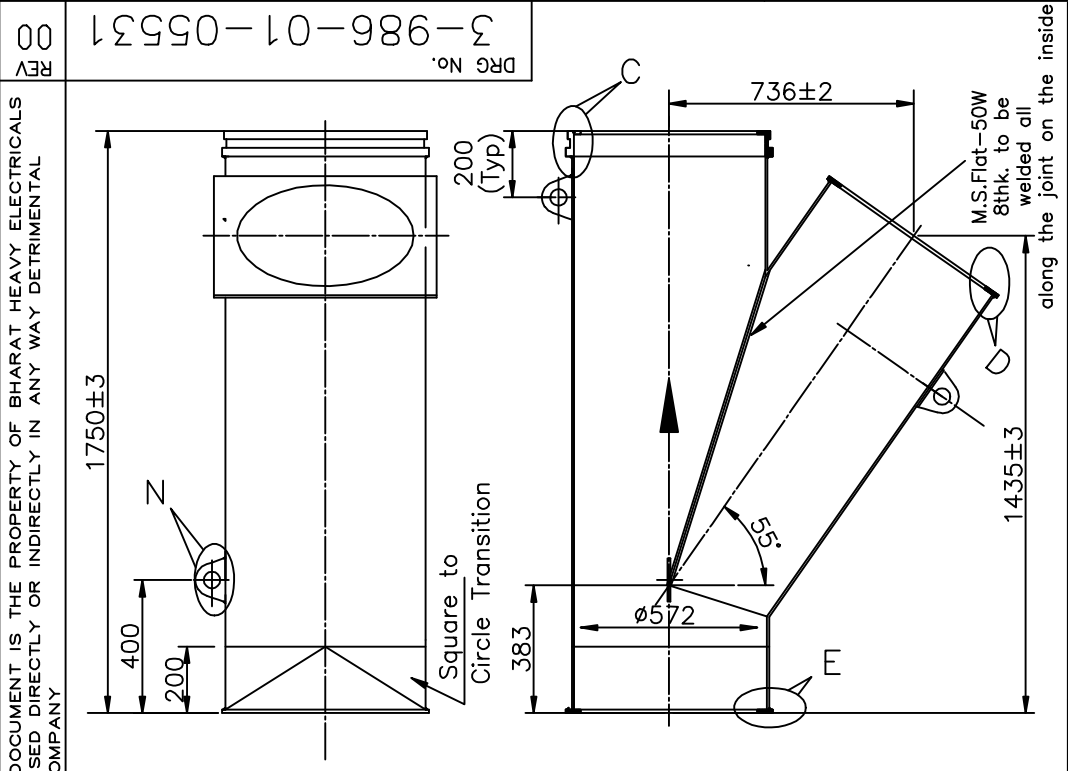
REF. DRG. No.

SIGN AND DATE

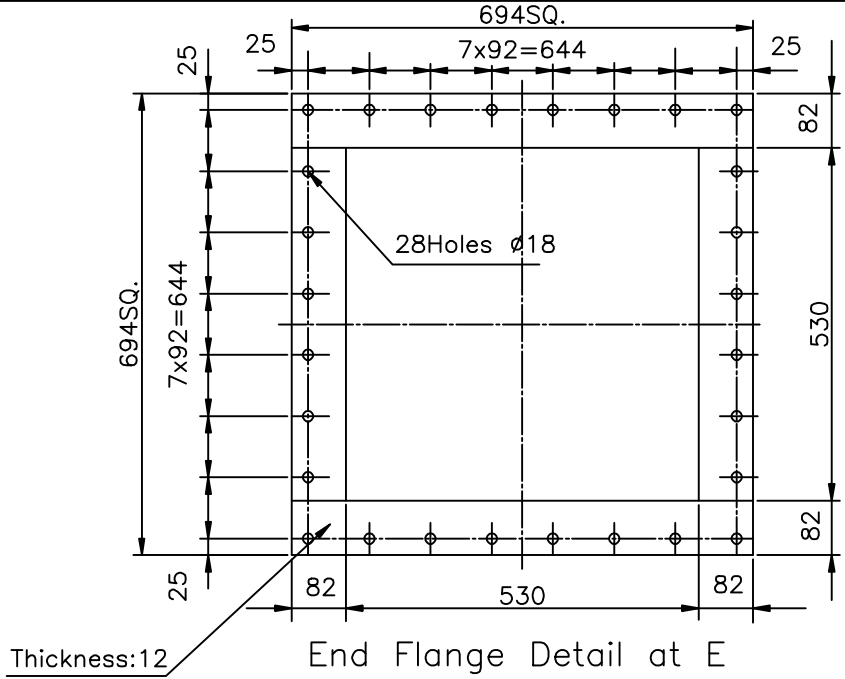
INVENTORY No.

FIRST ANGLE PROJECTION

ALL DIMENSIONS ARE IN mm.

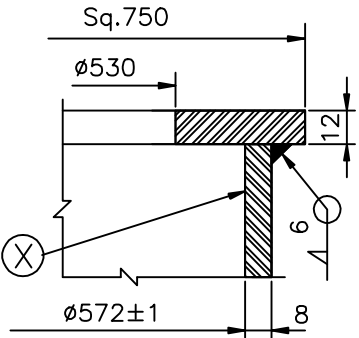


End Flange Detail at D

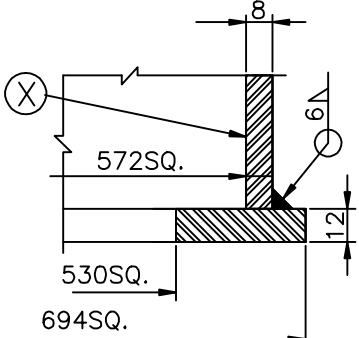


End Flange Detail at E

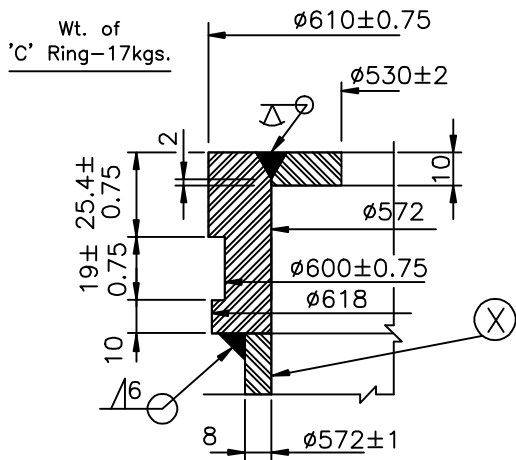
- NOTE:
1. Material of Casing, Lifting Lugs, Flanges & End Rings M.S. should conform to IS:2062 Gr.A.
 2. All over machining 6.3/ for End Rings.
 3. Inner surface shall be clean, smooth and weld joints shall be flush ground.
 4. Axis of end ring and flanges should be in line with axis of casing at corresponding points. Shift in axis should be within 1 mm.
 5. THIS DRG. IS FOR TENDER PURPOSE ONLY.



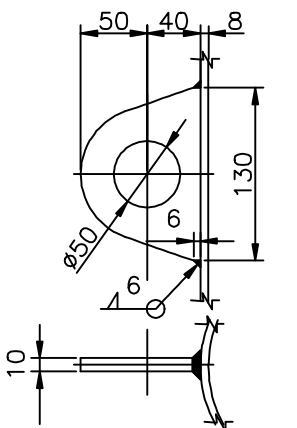
END DETAIL-D



END DETAIL-E



END DETAIL-C



LUG DETAIL-N (Typ)

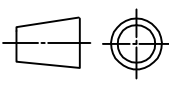
NAME OF CUSTOMER/PROJECT



BHARAT HEAVY ELECTRICALS LTD.,
ELECTROPORCELAINS DIVISION
BANGALORE - 560 012

DEPT
CODE

GRADE OF
TOL DIM
C/M/F



SCALE
N.T.S.

WEIGHT (kg)
(Approx)

TITLE
M.S.Casing & End Connections
for T PIECE

CARD
CODE

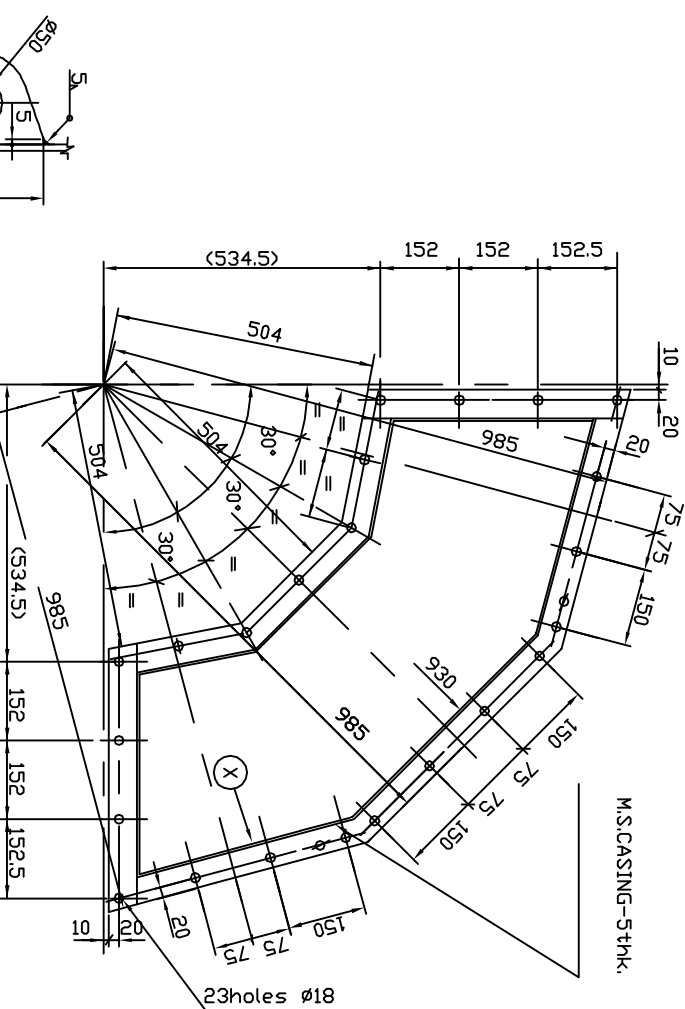
NAME	SIGN	DATE
DRN Muralis.S		20-11-2004
CHD Felix		25-11-2004
APPD Joshi.V.G.		25-11-04

REF TO ASSY.DRG	ITEM No.	No.OF ITEMS
3-986-01-05530		
DRAWING No.	REV.	
3-986-01-05531	00	
SHEET No.	No.OF SHEETS	

SUPERSEDES DRG. No.

SHT.24 SIZE A3 420 x 297

REV 00



SECTION-AA

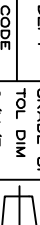
Technical drawing of a mechanical part showing front and top views with dimensions.

Front View (Left): Shows a vertical shaft with a diameter of 10. The shaft has a central section with a diameter of 10 and a wider base section with a diameter of 10. The total height of the part is 130.

Top View (Right): Shows a circular cross-section with a diameter of 50. The part has a central hole with a diameter of 10. The outer radius is 25. The inner hole has a radius of 5. The total width of the part is 130. The height of the part is 50. The part has a flange with a thickness of 5.

LUG DETAIL-N

1. Material M.S. should conform to IS:2062Gr-A/B.
2. Casting to be cleaned & painted with Red Oxide as per CE:265/21 except inner surface marked as (X)
3. End rings & flanges to be coated with rust preventive coating
4. Casting to be fabricated by matching the profiles of Top & Bottom flanges. Casting to be fabricated with max. 8 plates.
5. For welding refer AWS:D 11.
6. All supplies to conform GR No. CLINQP-01/00,
7. Unspecified welding fillet thickness 5mm.
8. Welding on inner surface to be flush ground except Inner Flange weld filets.
9. All sharp edges & corners to be rounded to R10 unless otherwise specified.
10. Pattern number '1-G2-309-50426' to be weld deposited on casting outer surface as per CE-265-21.
11. Linear Tolerance where not specified 1mm.

		BHARAT HEAVY ELECTRICALS LTD., ELECTROFORGEAINS DIVISION BANGALORE - 560 012		NAME _____ SIGN _____ DATE _____	
DEPT	GRADE OF	SCALE	WEIGHT (kg)	REF TO ASSY.DRG	ITEM
	TOL. DIM	N.T.S.	1500	BHEL-HYD. Dwg. No.	NO. OF ITEMS
					
CODE					

NAME OF CUSTOMER/PROJECT
BBD-4772

C/M/F	Y	(Approx)	1-b2-309-50426	
TITLE			DRAWING No.	REV.
M.S.CASING TO P.F.Outlet BOX			TDR-3-986-99-04180	00
			CARD CODE	
			SHEET No.	No. OF SHEETS

SUPERSEDES DRG. No.

SHT.24 SIZE A3 420 x 297