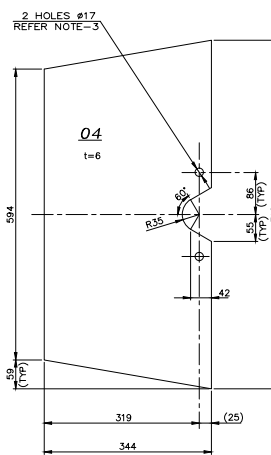
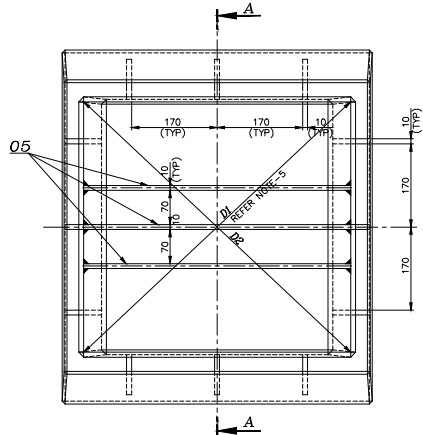
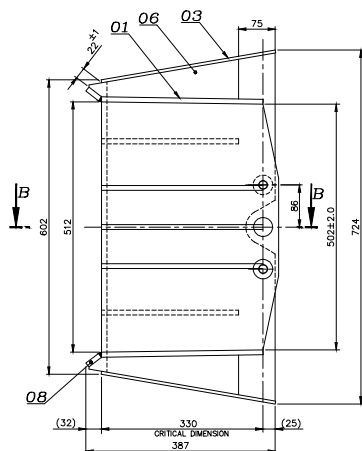


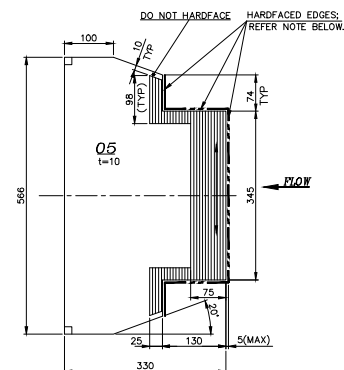
FOR TOLERANCES OF UNTOLERANCED
DIMENSIONS DURING MANUFACTURE
REFER PLANT STD. NO TP 023 0299

ITEMS 08 NOT SHOWN



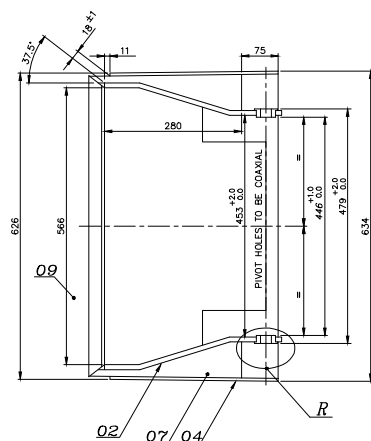
- NOTES**

 1. REFER DRAWING: 4-45-000-00975 FOR WELDING DETAILS & FOLLOW APPLICABLE WPS.
 2. REFER DRAWING: 1-45-220-00805 FOR TOLERANCES NOT SHOWN.
 3. MAKE 1In. OF ITEM:02&04 WITH #17 HOLES & 1In. WITHOUT THESE HOLES.
 4. APPLICABLE SHRINKAGE ALLOWANCE IS TO BE GIVEN TO ITEMS 01&02 AT MATERIAL PREPARATION STATE ITSELF.
 5. DIGONALS "D1" & "D2" TO BE WITHIN 2mm AT REAR & FRONT ALSO.

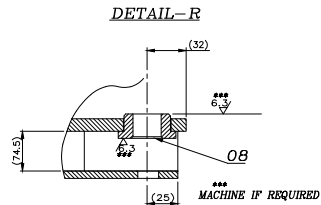
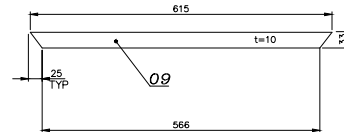
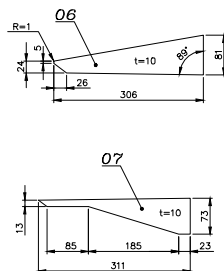
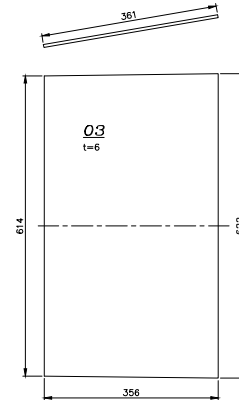
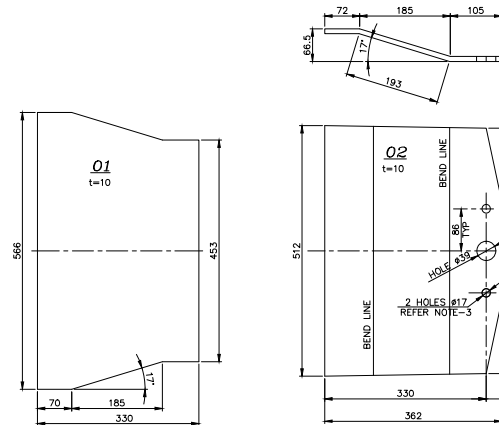


NOTE: —

HARD FACE AT TOP,BOTTOM & LEADING EDGES
WELD LAY PERPENDICULAR TO FLOW DIRECTION
HARDNESS VALUE TO BE FROM 52 TO 58 HRC.
BEAD HEIGHT=5mm(MAX.) & PITCH=10mm.
FOLLOW APPLICABLE WPS FOR HARD FACING.



SECTION - BB



ITEM NO	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO VAR NO	MATERIAL CODE MATERIAL SPECN	QTY	UNIT WEIGHT	QTY	ZONE
09	PL. 10X33X615					150114690000 A167 Y309	C	1.48	2	
08	CNT PIVOT BEARING D47 ; 16	4-45-220-00712				150241590000 A479 Y304	C	0.150	2	
07	PL. 10X73X311					150114690000 A167 Y309	C	0.87	6	
06	PL. 10X81X306					150114690000 A167 Y309	C	1.24	6	
05	PL. 10X566X330					150114690000 A167 Y309	C	12.12	3	
04	PL. 6K712X344					150117410000 A167 Y309	C	8.40	2	
03	PL. 6X622X361					150117410000 A167 Y309	C	10.51	2	
02	PL. 10X512X370					150114690000 A167 Y309	C	14.30	2	
01	PL. 10X566X330					150114690000 A167 Y309	C	13.77	2	

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT	
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Bharat Heavy Electricals Ltd
UNIT: HIGH PRESSURE BOILER PLANT
TIRUCHIRAPALLI - 620014

	NAME	SIGNATURE	DATE
DRM	K. ANBU	-sd-	14.02.12
CHD	MR.F.BASHA	-sd-	15.02.12
APPO	S.V.S	-sd-	16.02.12

DEPT	FS	ALL DIMENSIONS ARE IN MM		SCALE	1:5	WEIGHT (Kg)
CODE	129			N T S	145.054	

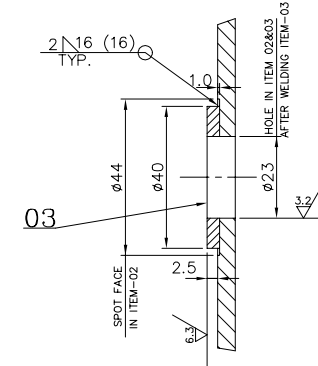
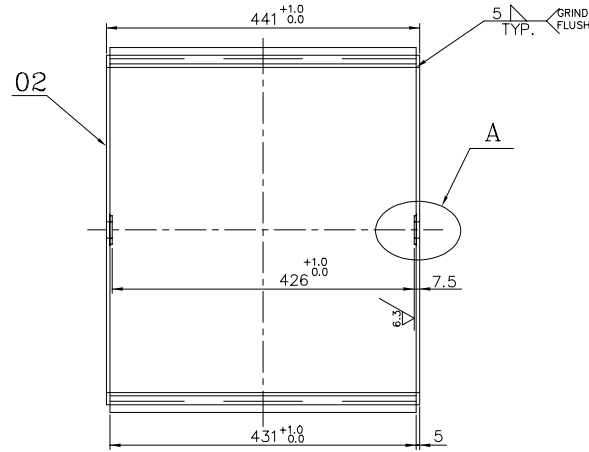
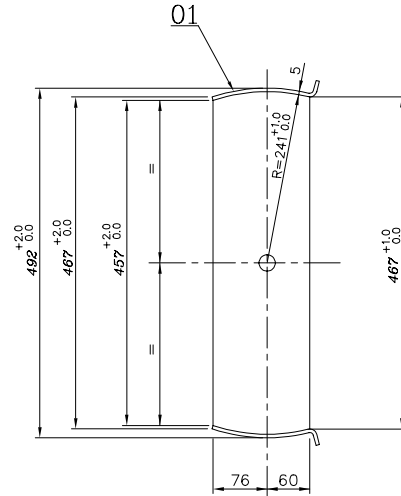
COAL NOZZLE TIP

DRAWING NO :	REV
1-45-220-01729	00

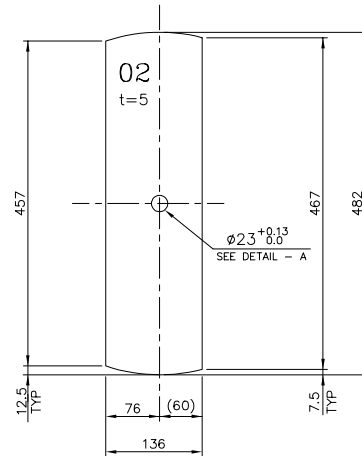
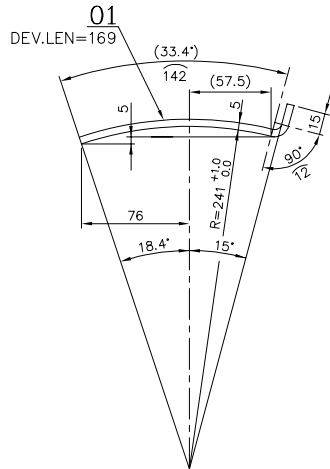
REV	DATE	ALTERED :
01		CHD & APPD
ZONE		

[illegible]

CAUTION: The information on this document is the property of BHARAT



DETAIL - A

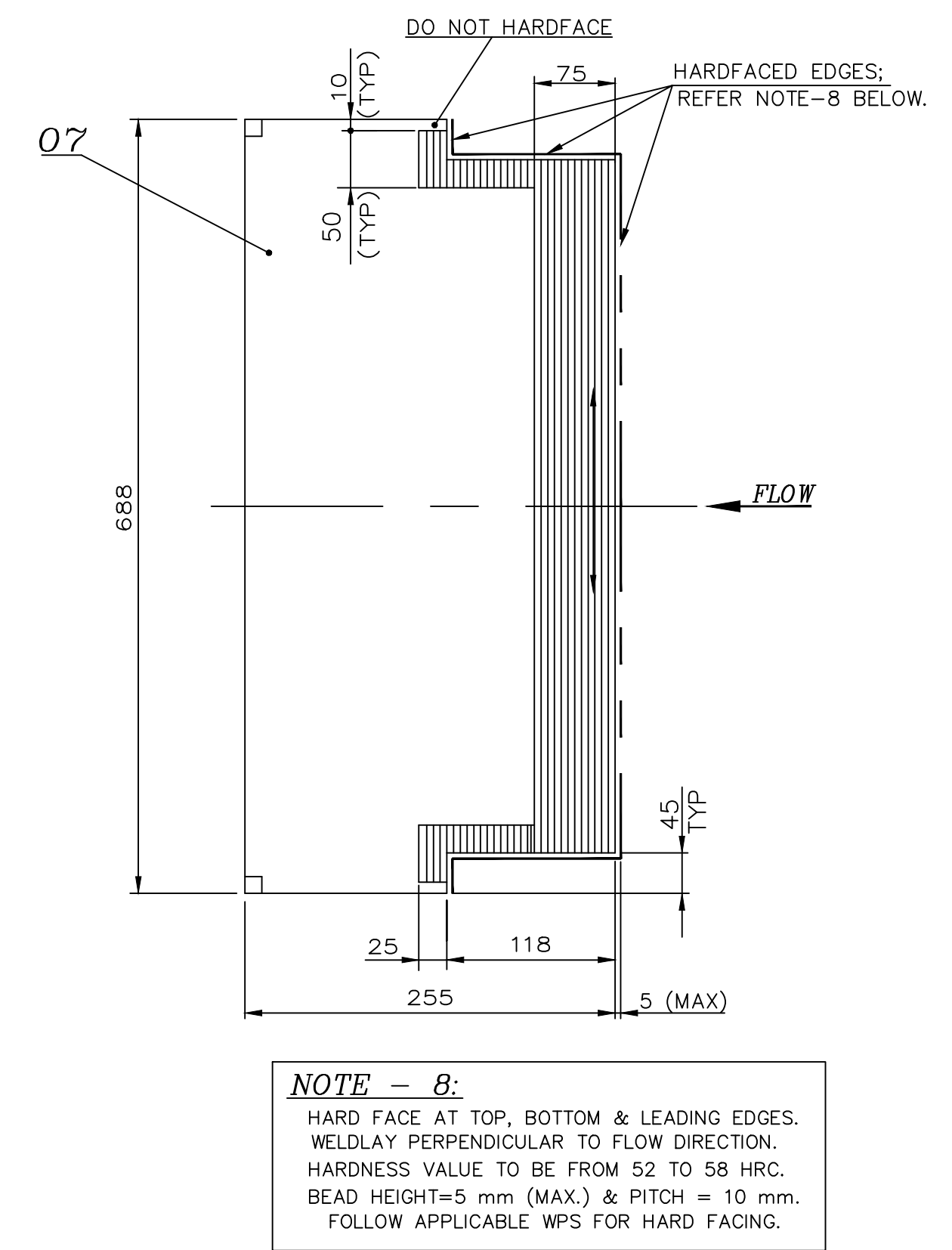
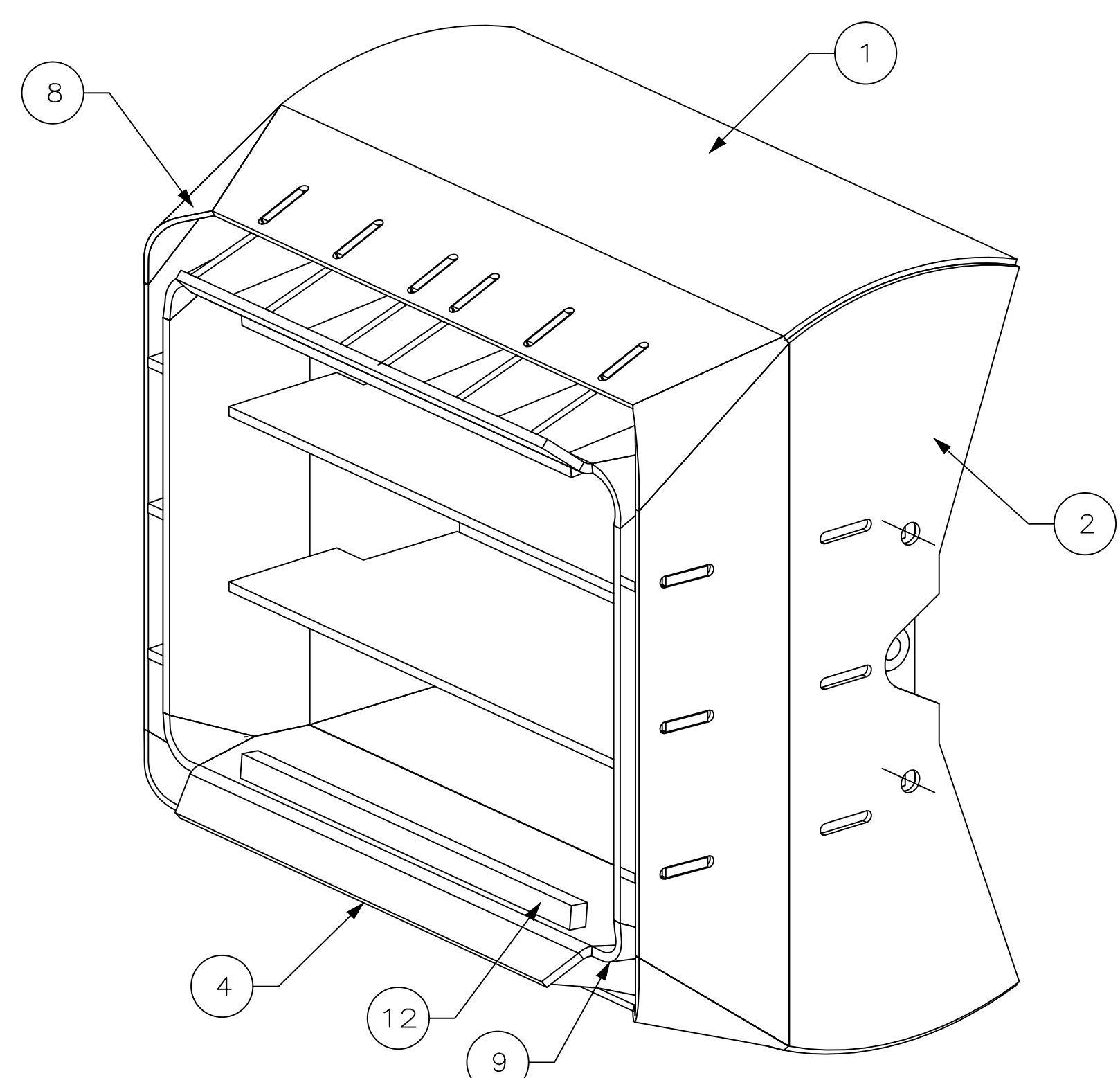
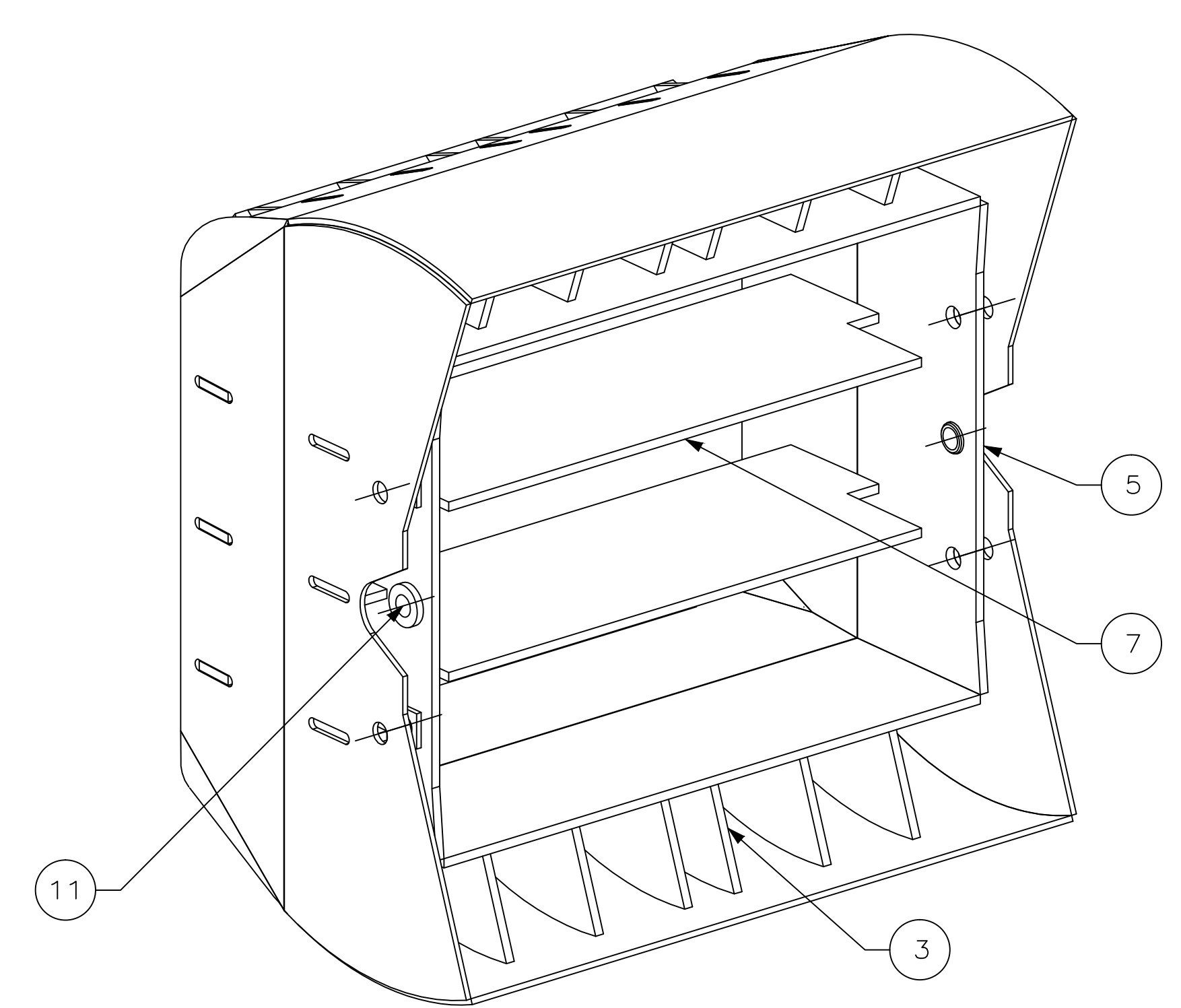
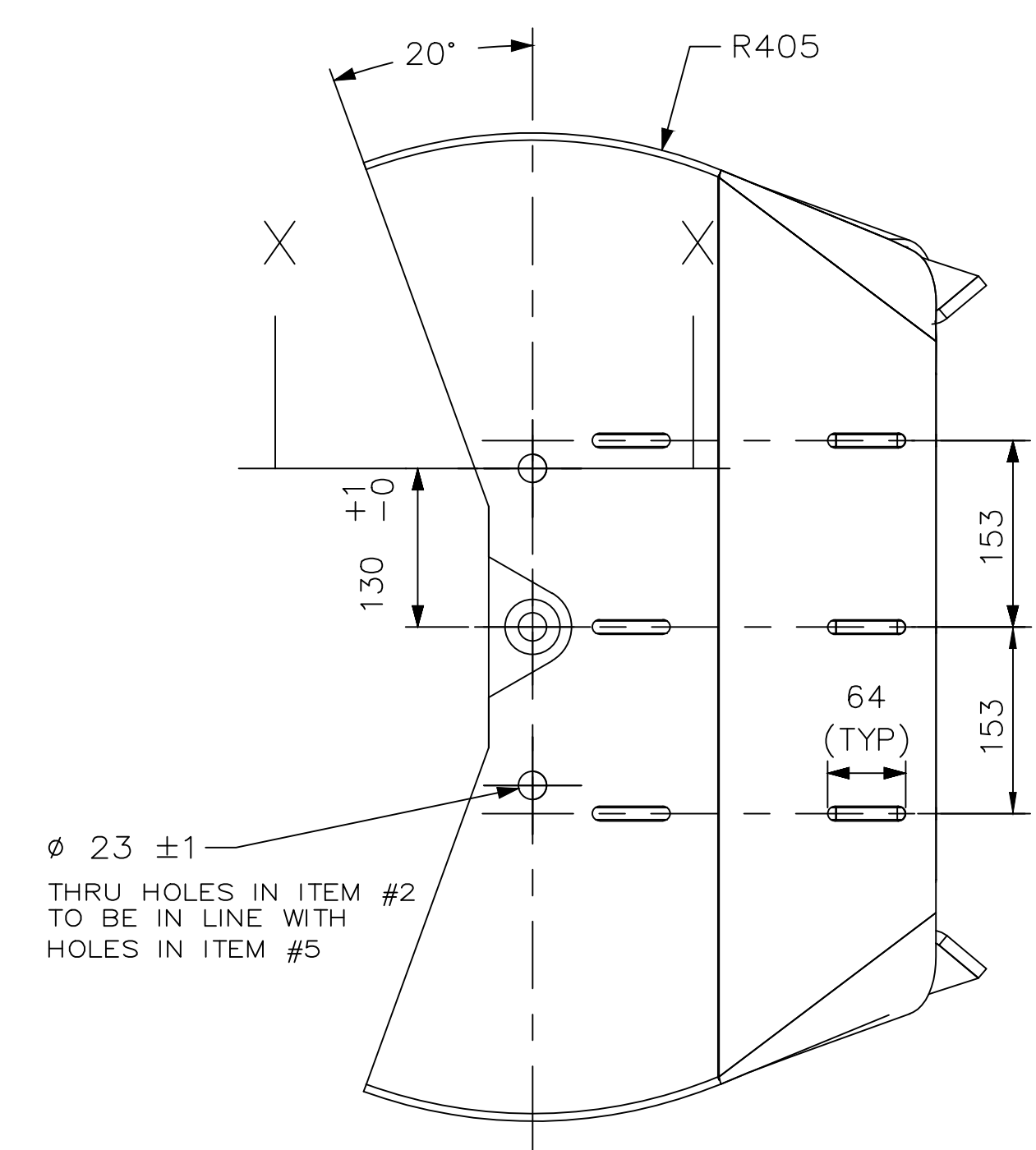
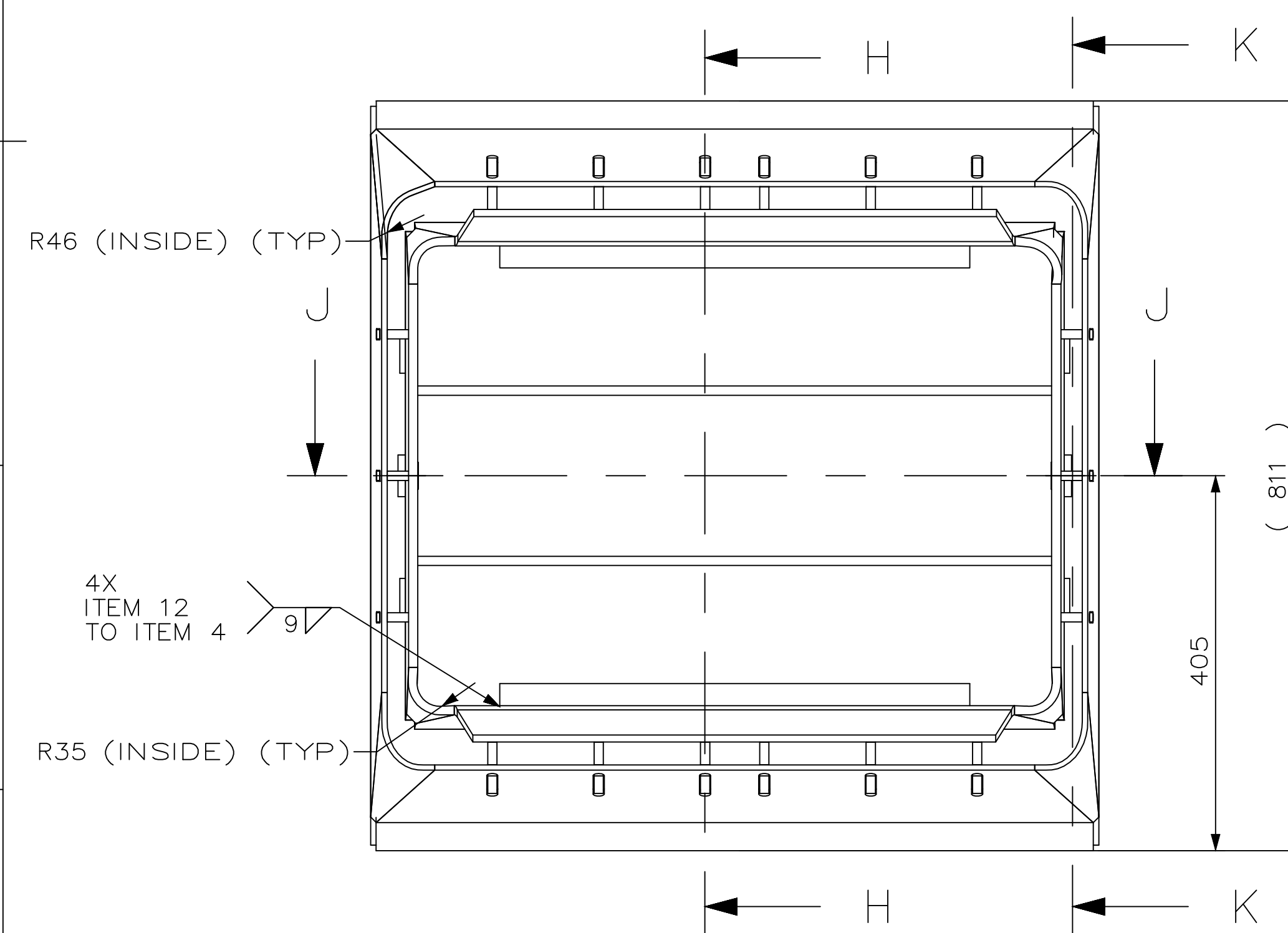
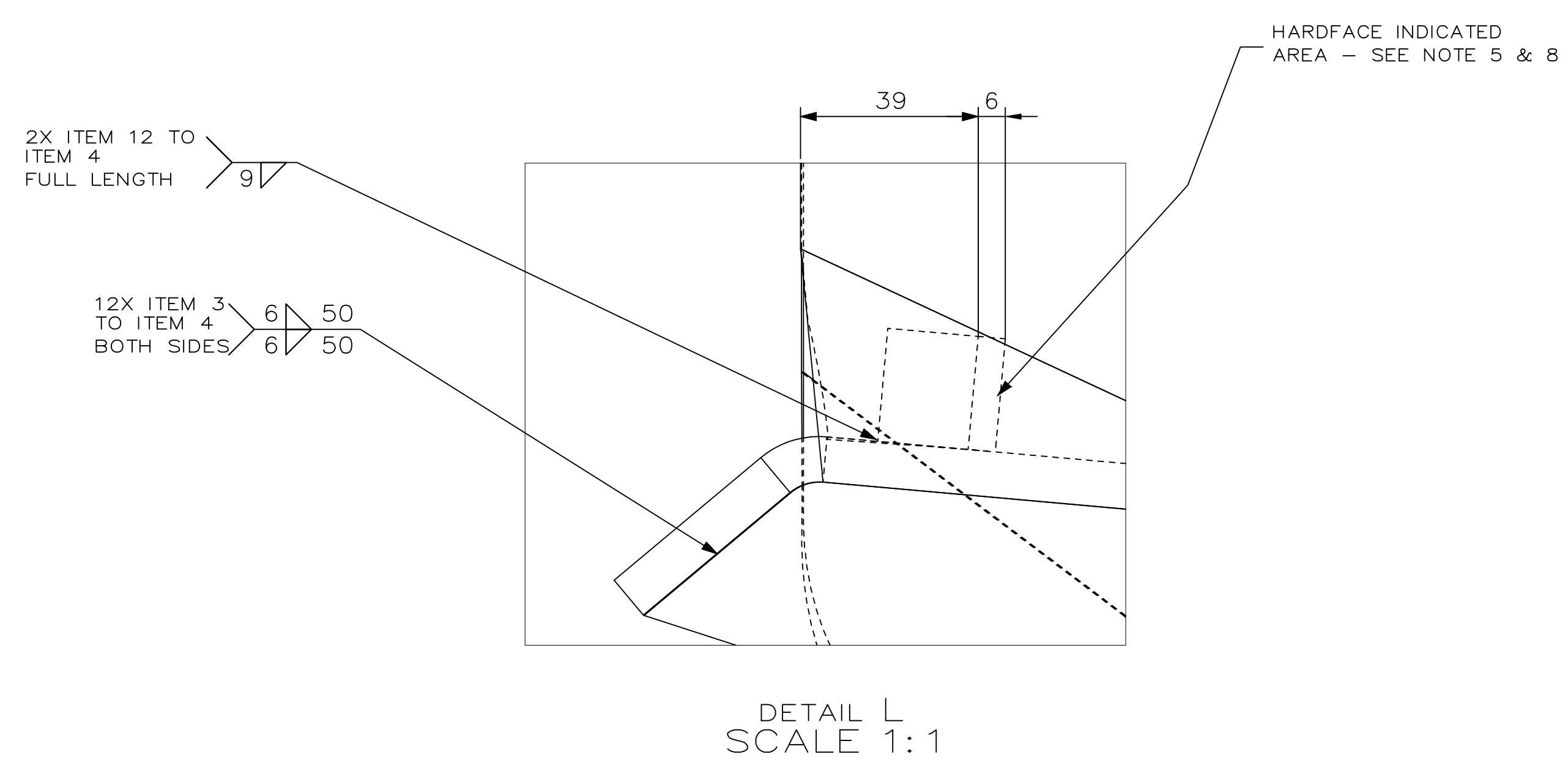
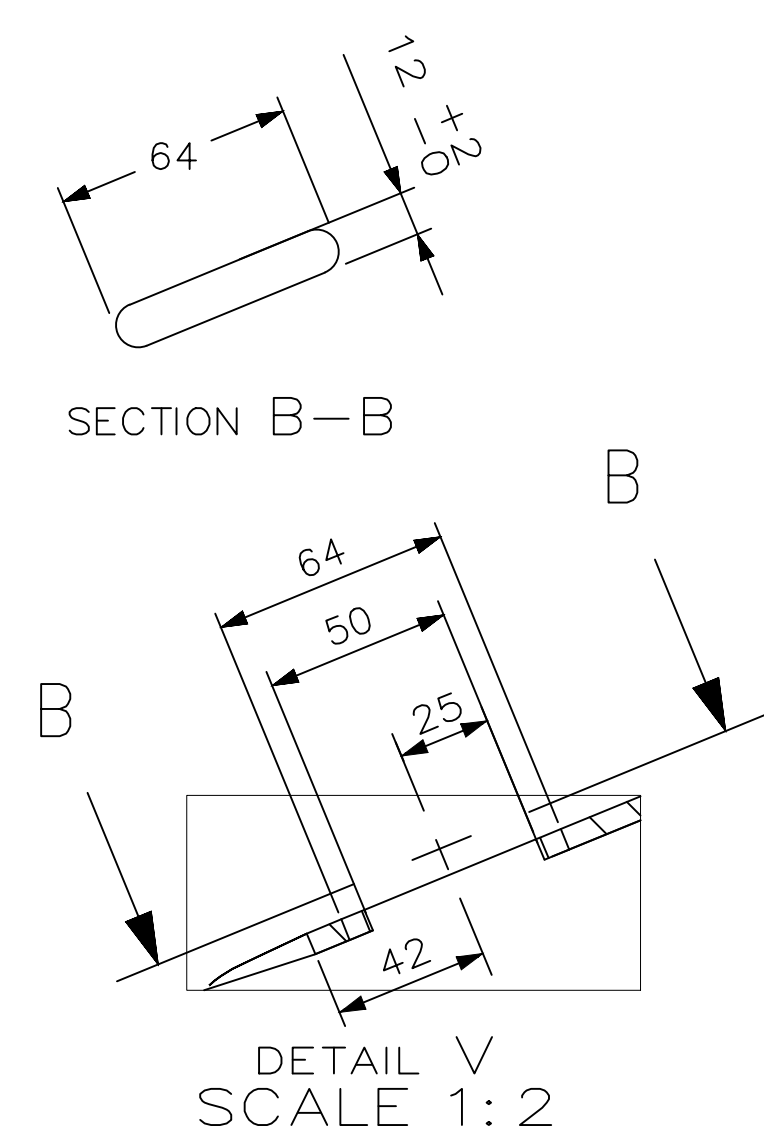
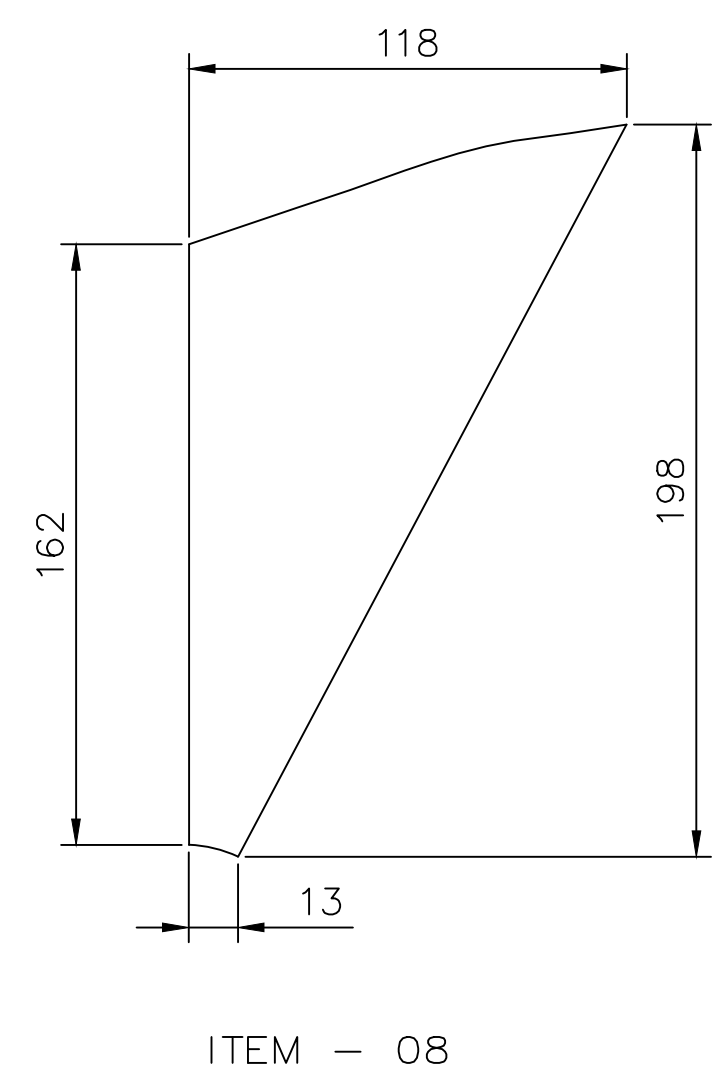
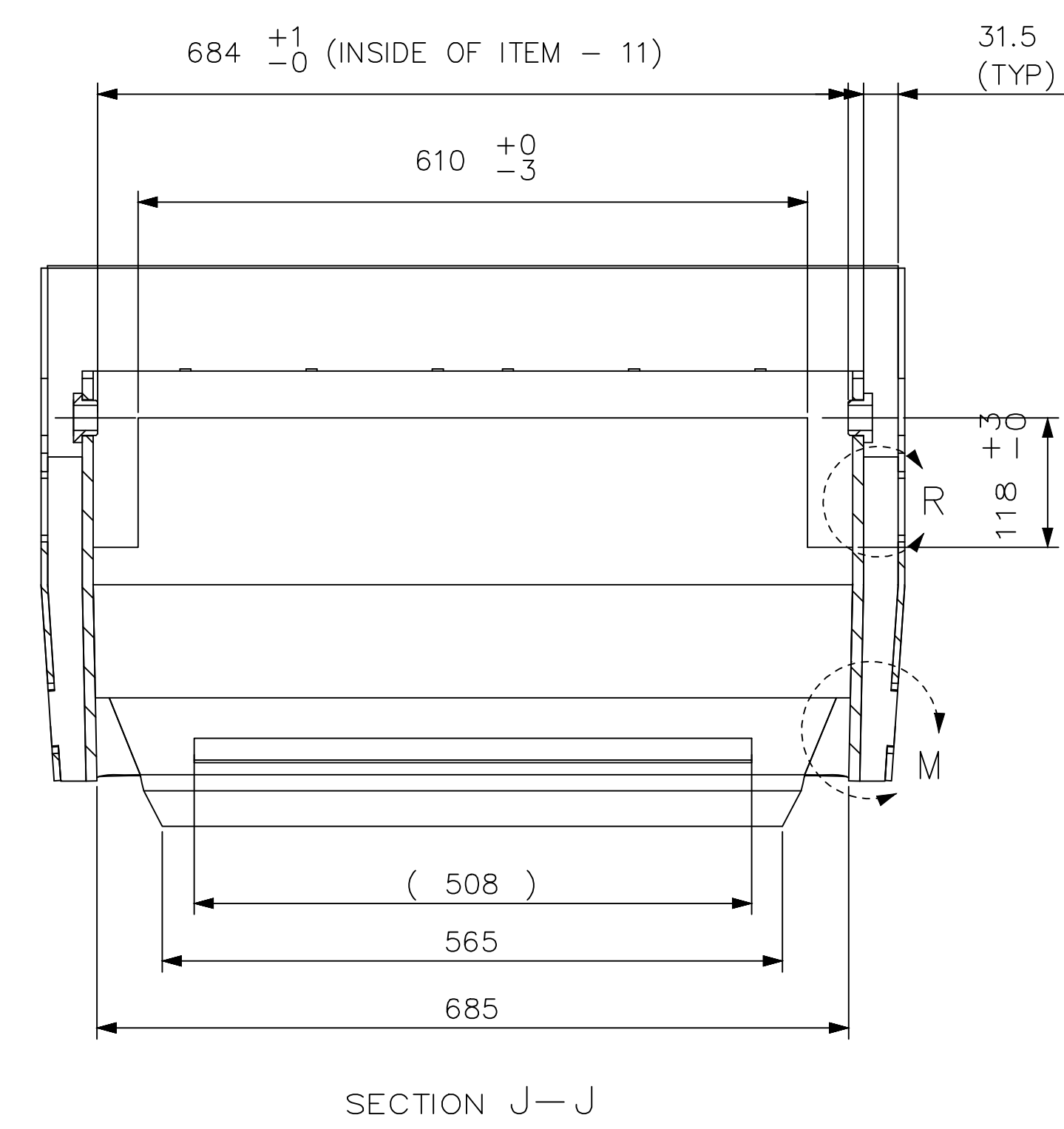
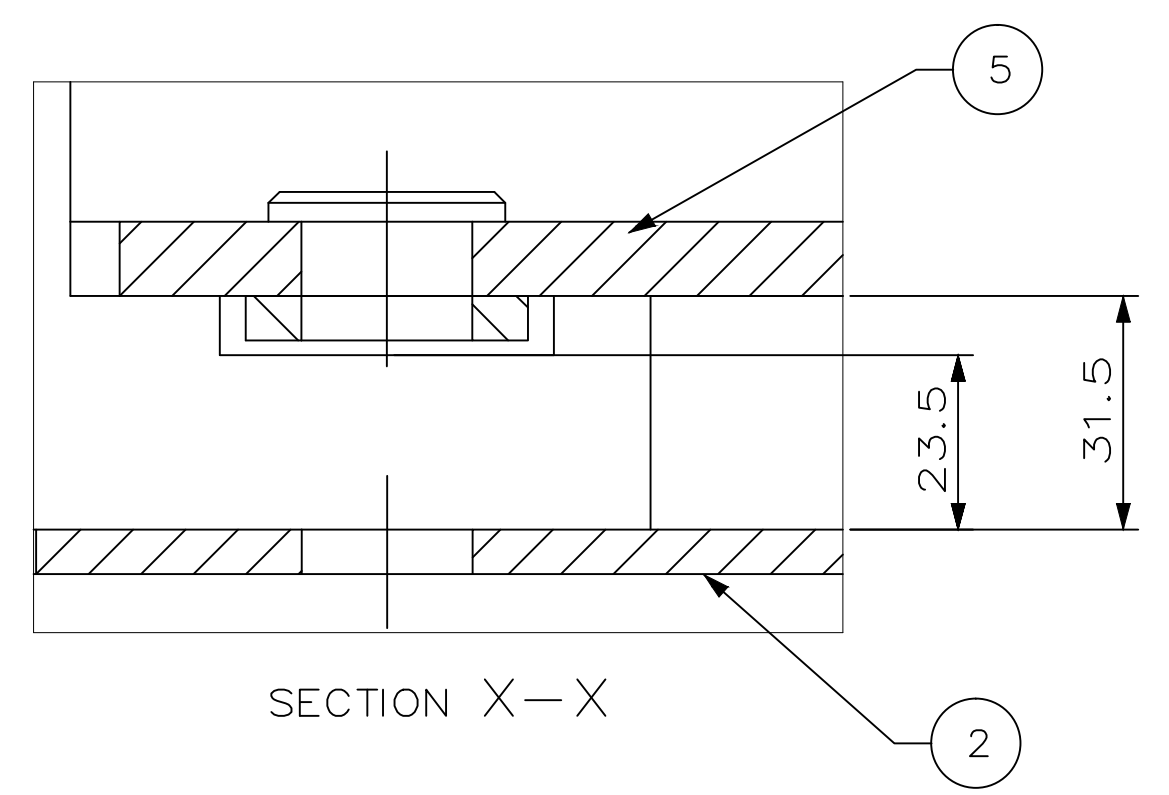
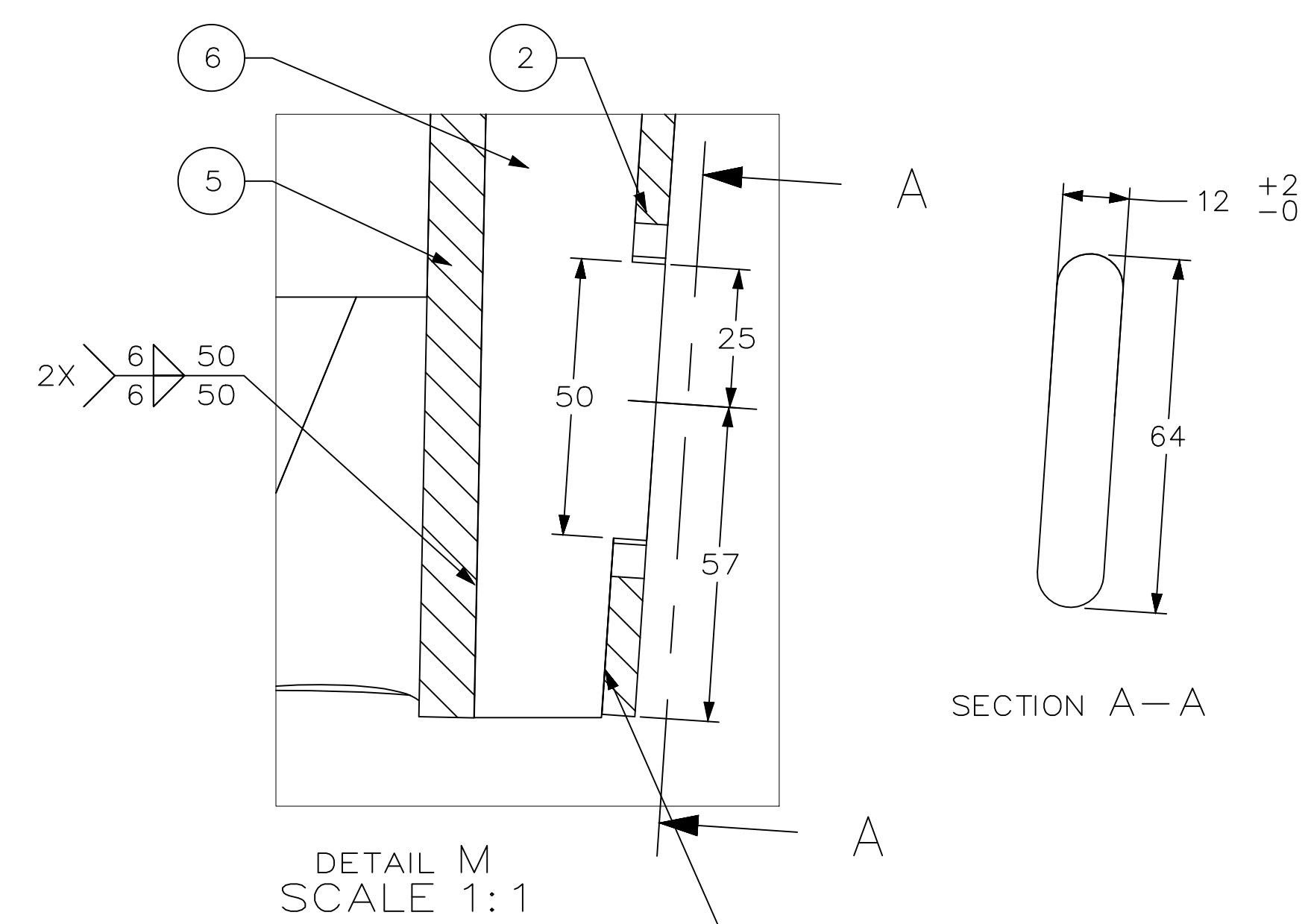
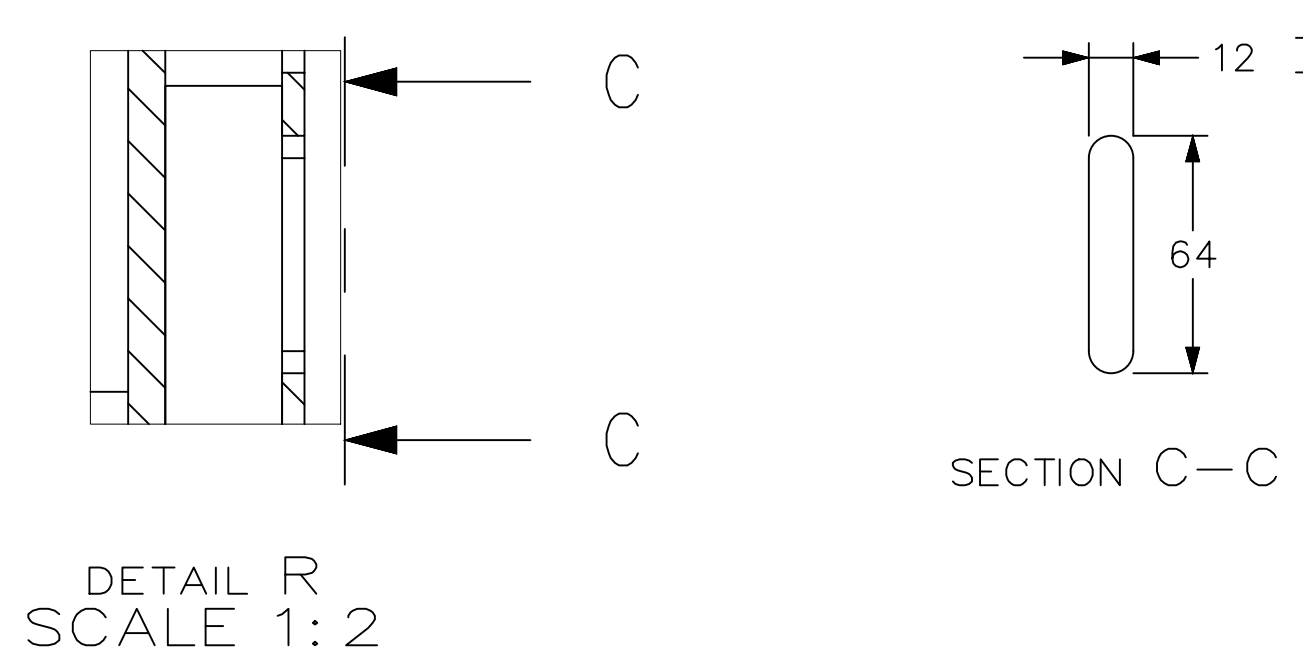


VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	UNIT	UNIT WEIGHT	CS	ZONE
					VAR NO	MATERIAL SPECN	A/C/P	DI	QUANTITY	
	03	PL. 4; D40 / D23				15 011 295			0.040	
						SA240 TY304			2	
	02	PL. 5X136X482				15 011 308			2.600	
						SA240 TY304			2	
	01	PL. 5X169X431				15 011 308			2.914	
						SA240 TY304			2	

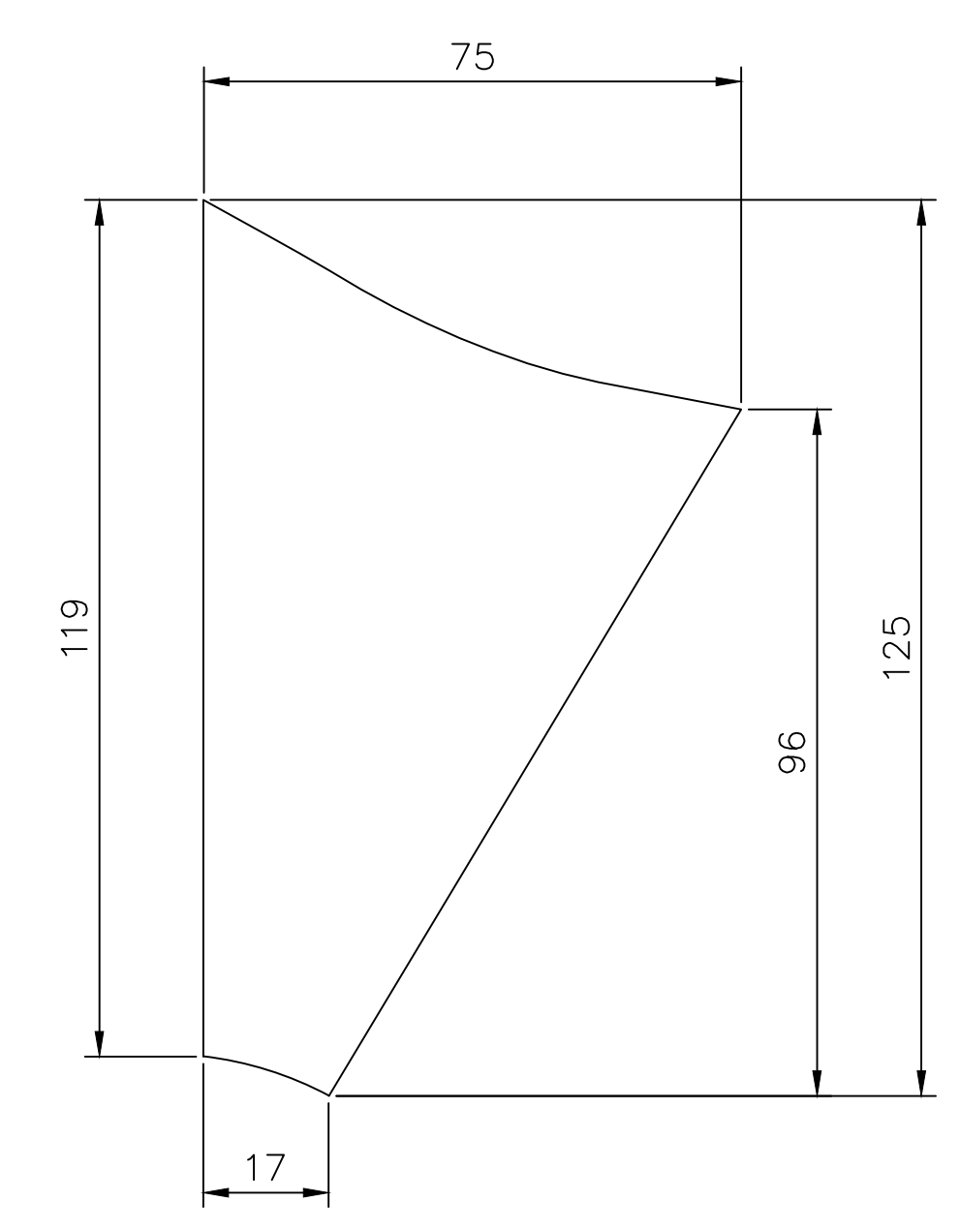
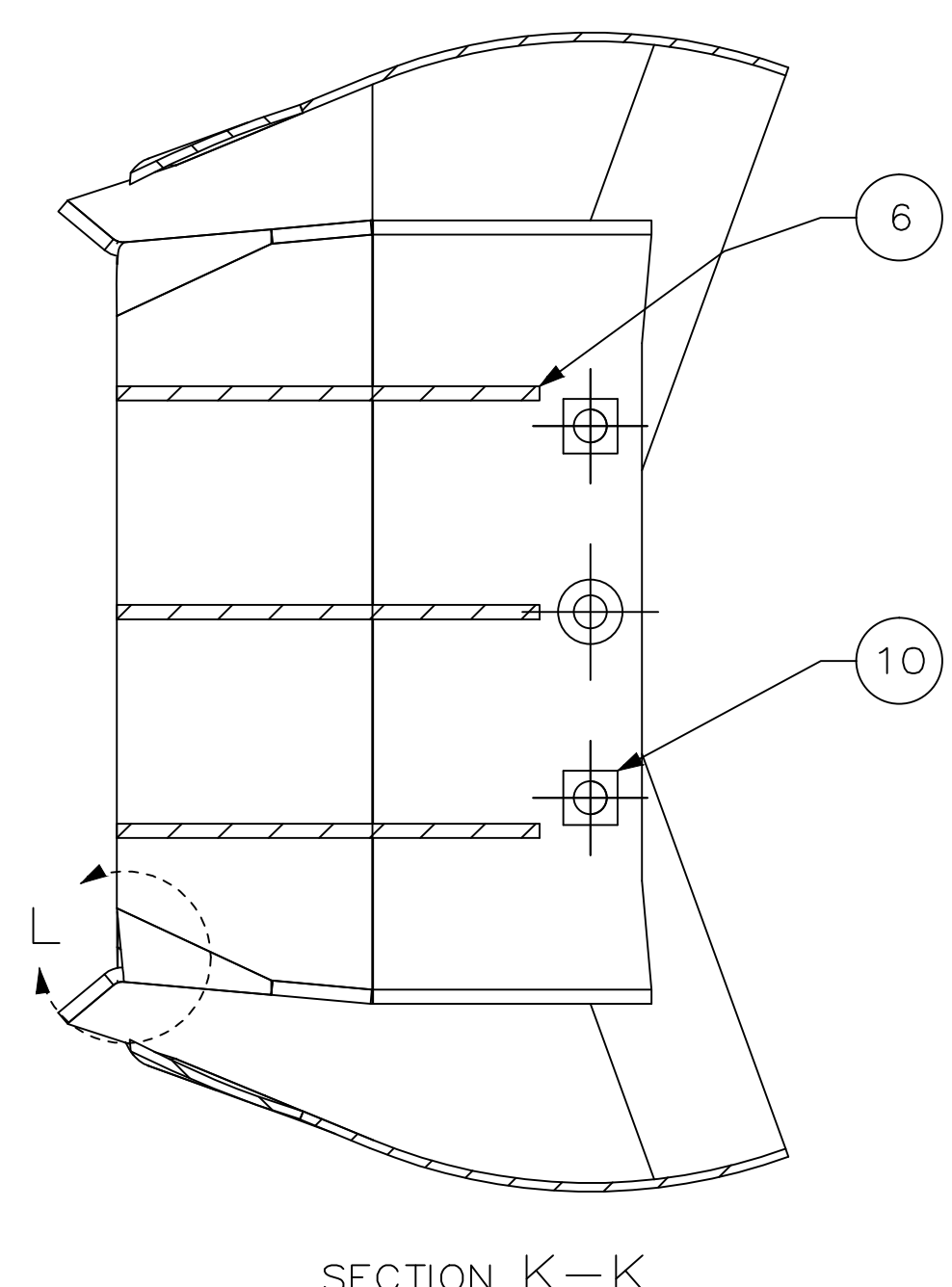
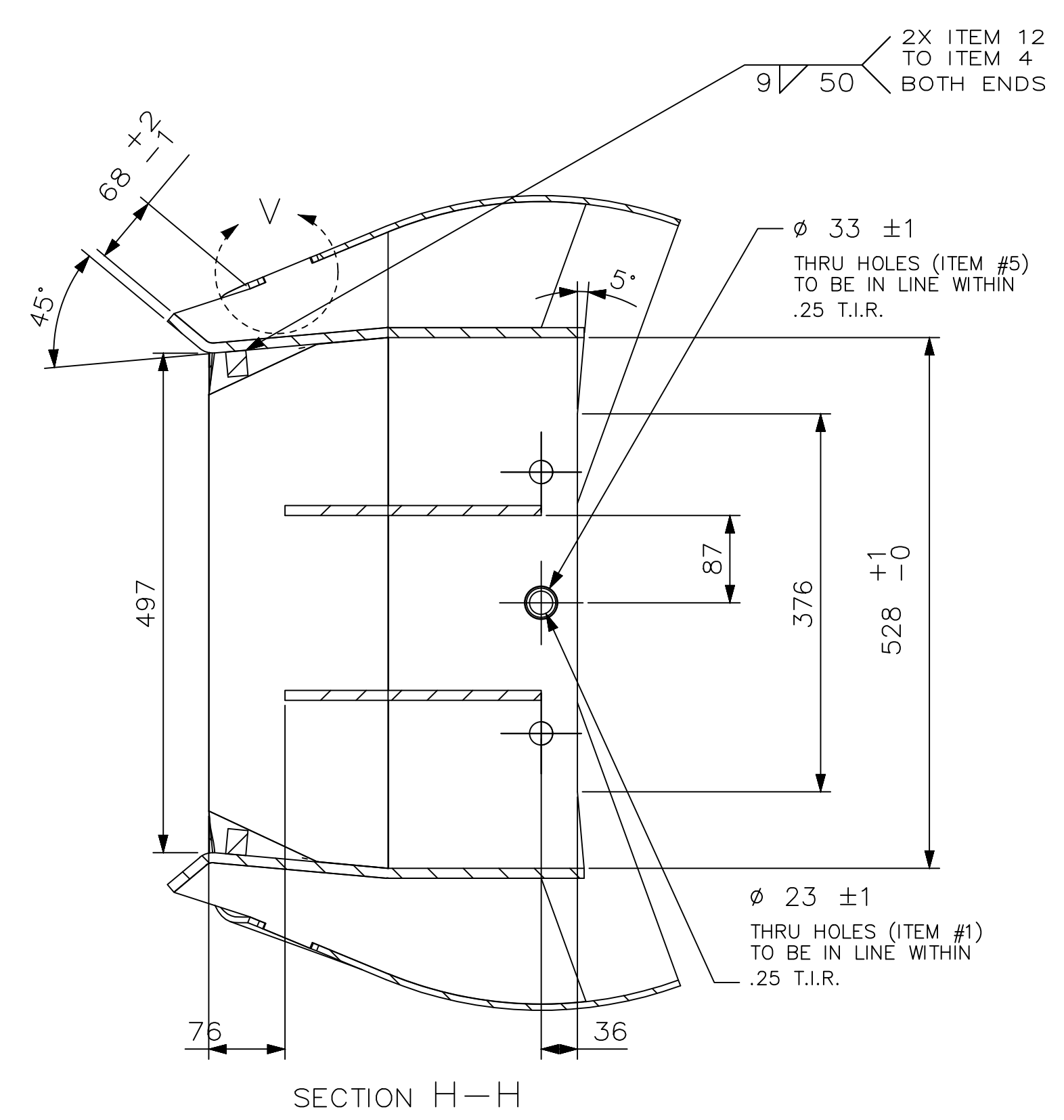
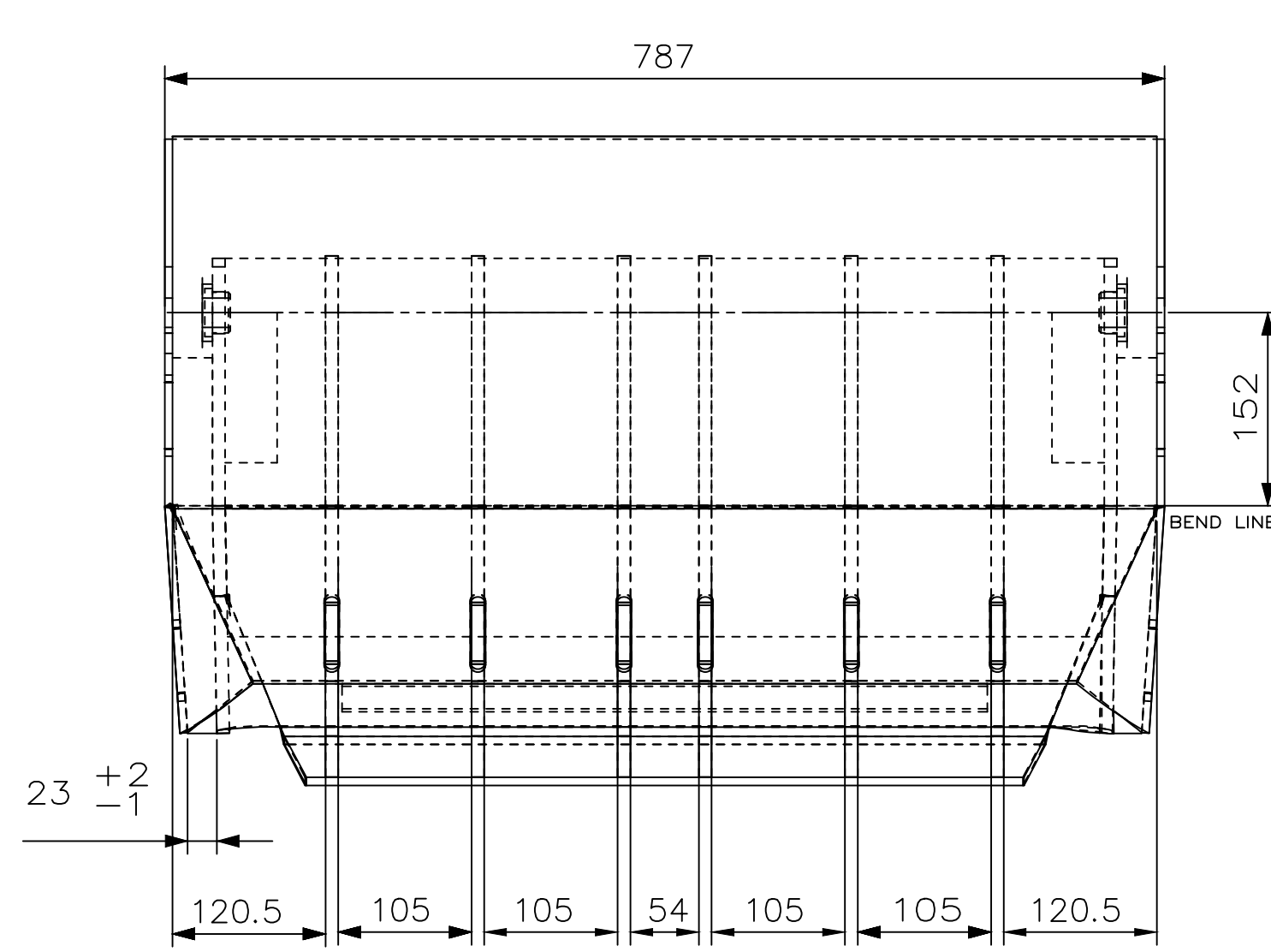
CAUTION: The information on this drawing is the property of BHARAT HEAVY ELECTRICALS LTD. It must not be used directly or indirectly in any way without the prior approval of the company.		TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT		Bharat Heavy Electricals Ltd UNIT: HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI - 620014			
		DEPT FS	ALL DIMENSIONS ARE IN MM	PROJECTION 1:5	SCALE 1:5	WEIGHT (Kg) 11.108	REF TO ASSY / OLD DWG
		CODE 129					
		TITLE CN SEAL PLATE		DRAWING NO : 2-45-220-01206		REV 00	

REV	DATE	ALTERED :
01		CHD & APPD :
ZONE		

- NOTES:
1. DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994 UNLESS OTHERWISE SPECIFIED:
 - a. ALL DIMENSIONS ARE IN MILLIMETERS.
 - b. TOLERANCES ON DIMENSIONS ± 2 .
 - c. TOLERANCES ON ANGULAR DIMENSIONS $\pm 1^\circ$.
 2. FOR FABRICATION AND WELDING NOT SHOWN SEE DRAWING 1-45-000-01632
 3. FOR STANDARD HARDFACING APPLICATION AND SPECIFICATIONS SEE DRAWING 1-45-000-01632
 4. COAL TIP FREE AREA = 0.111 Sq.m. FREE AREA IS SECONDARY AIR THRU INSIDE OF TIP ONLY.
 5. HARDFACE LEADING EDGE OF THE SHEAR BARS (ITEM 12) USING AS PER NO. 101 HC OR EQUAL AS SHOWN. A MINIMUM SURFACE HARDNESS OF 52-58 HRC MUST BE MAINTAINED FOR THE HARDFACING WELD OVERLAY.
 6. FOR DETAILS DRAWING REFER TO DRAWING NO :0-45-320-01481
 7. FORM & GRIND SUITABLY ITEM NO 08 & 09 TO FIT INTO THE ASSEMBLY.



COMP. HT. = 836 mm



12	PL 20 X 25 X 508		150119402000		2.049
			A167TP310		2
11	BEARING Ø45	2-45-320-01445	150241590000		0.316
			5A4791Y304		2
10	PL 6 X 38 X 38	0-45-320-01481	150117410000		0.069
			A167TY309		4
09	PL 10 X 75 X 125	0-45-320-01480	150114690000		0.330
			A167TP310		4
08	PL6 X 118 X 198	0-45-320-01480	150117410000		0.494
			A167TY309		4
07	PL10 X 692 X 255	0-45-320-01481	150114690000		13.442
			A167TY309		2
06	PL10 X 35 X 295	0-45-320-01481	150114690000		0.715
			A167TY309		6
05	PL10 X 374 X 528	0-45-320-01481	150114690000		14.954
			A167TY309		2
04	PL10 X 419 X 692	0-45-320-01481	150114690000		22.775
			A167TY309		2
03	PL10 X 411 X 141	0-45-320-01481	150117410000		13.331
			A167TY309		2
02	PL6 X 468 X 799	0-45-320-01481	150117410000		16.086
			A167TY309		2
01	PL6 X 447 X 775	0-45-320-01481	150117410000		16.086
			A167TY309		2
DESCRIPTION		DRAWING NUMBER	ITEM NO	MATERIAL CODE	UNIT WEIGHT
			VAR NO	MATERIAL SPECN	QTY
			ZONE		

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TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT

812 MM WIDE COMPARTMENT 660 MM FUEL PIPE

Bharat Heavy Electricals Ltd
UNIT: HIGH PRESSURE BOILER PLANT
TIRUCHIRAPALLI - 620014

REV 01 DATE 01.06.2012
CHD & APPD :
ZONE

DEPT: SUTB
CODE 129

PROJECTION SCALE N.T.S.

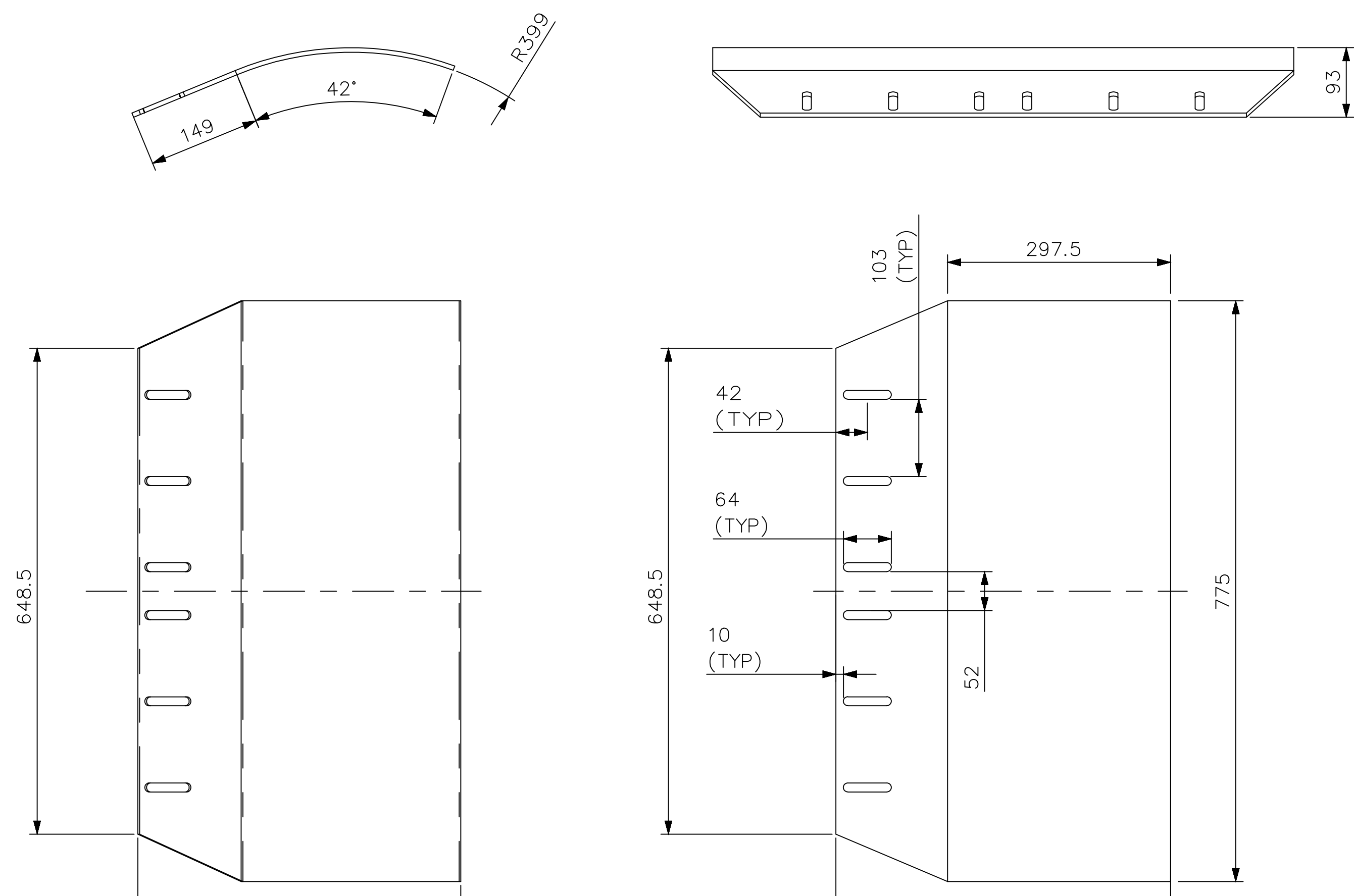
WEIGHT (Kg) 206.012

REV TO ASSY / OLD ENG E-941-3220

TITLE COAL NOZZLE TIP ASSLY.

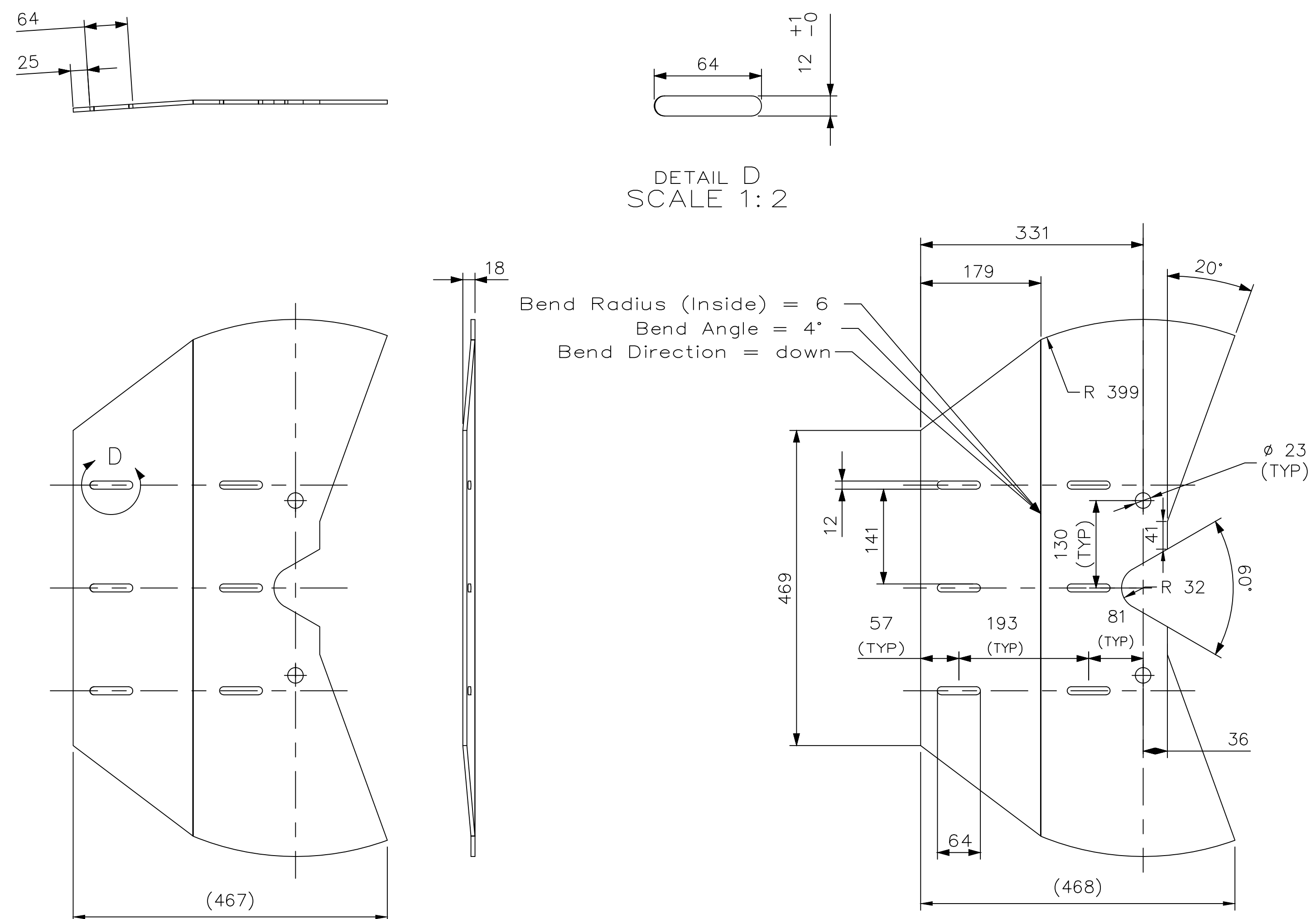
DRAWING NO : 0-45-320-01480

REV



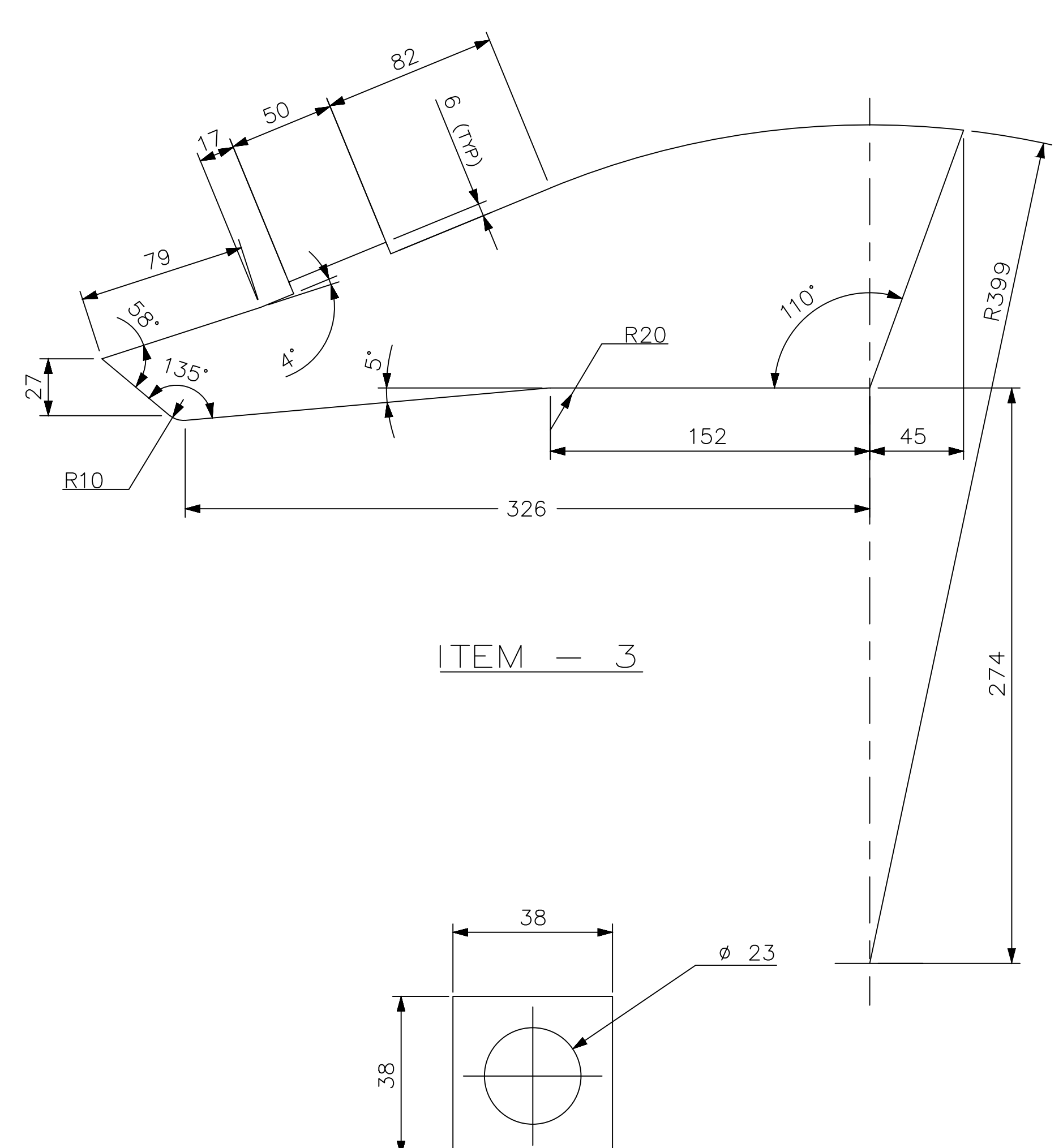
ITEM - 1 : DEVELOPED VIEW

ITEM - 1



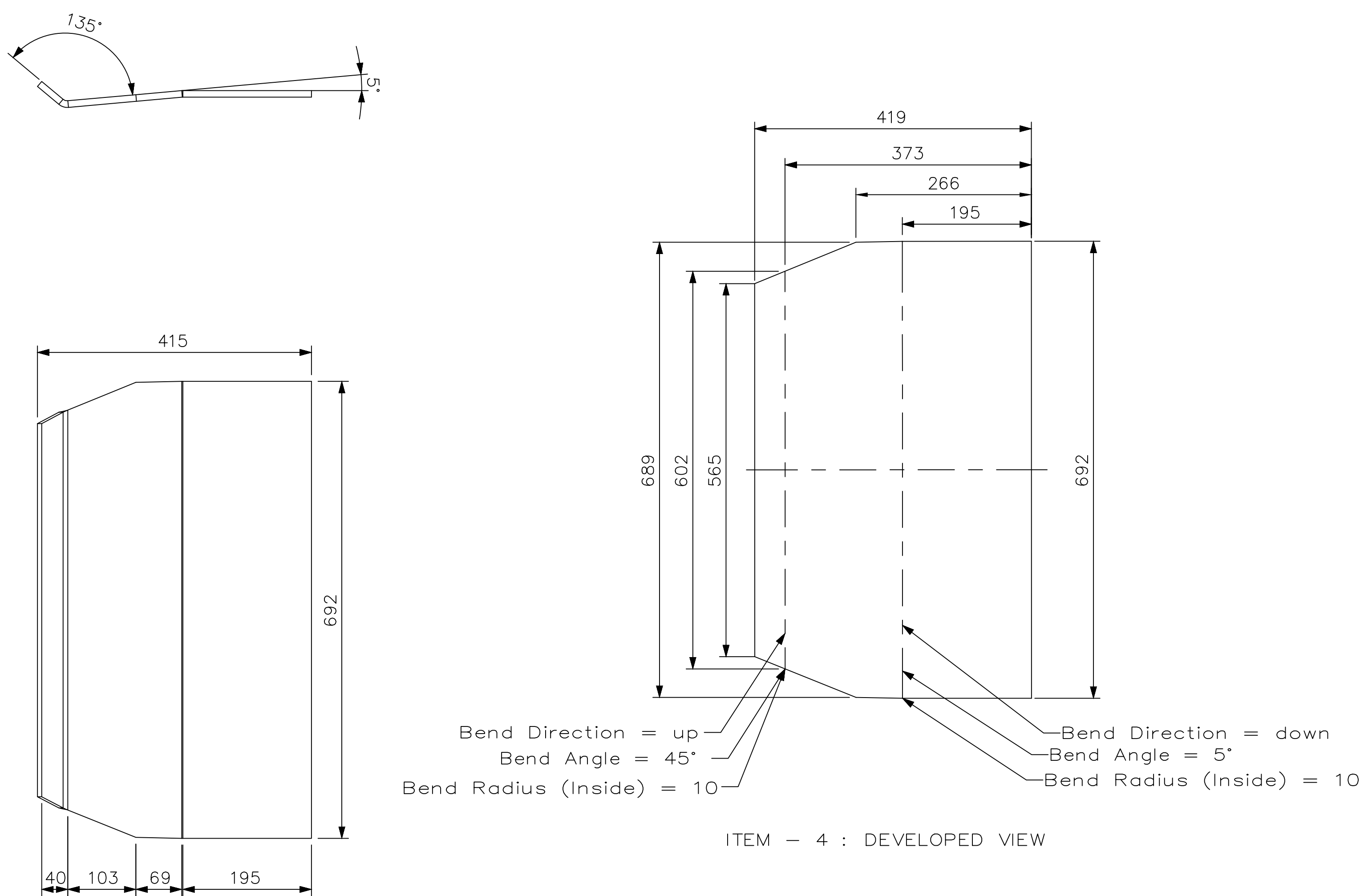
ITEM - 2 : DEVELOPED VIEW

ITEM - 2



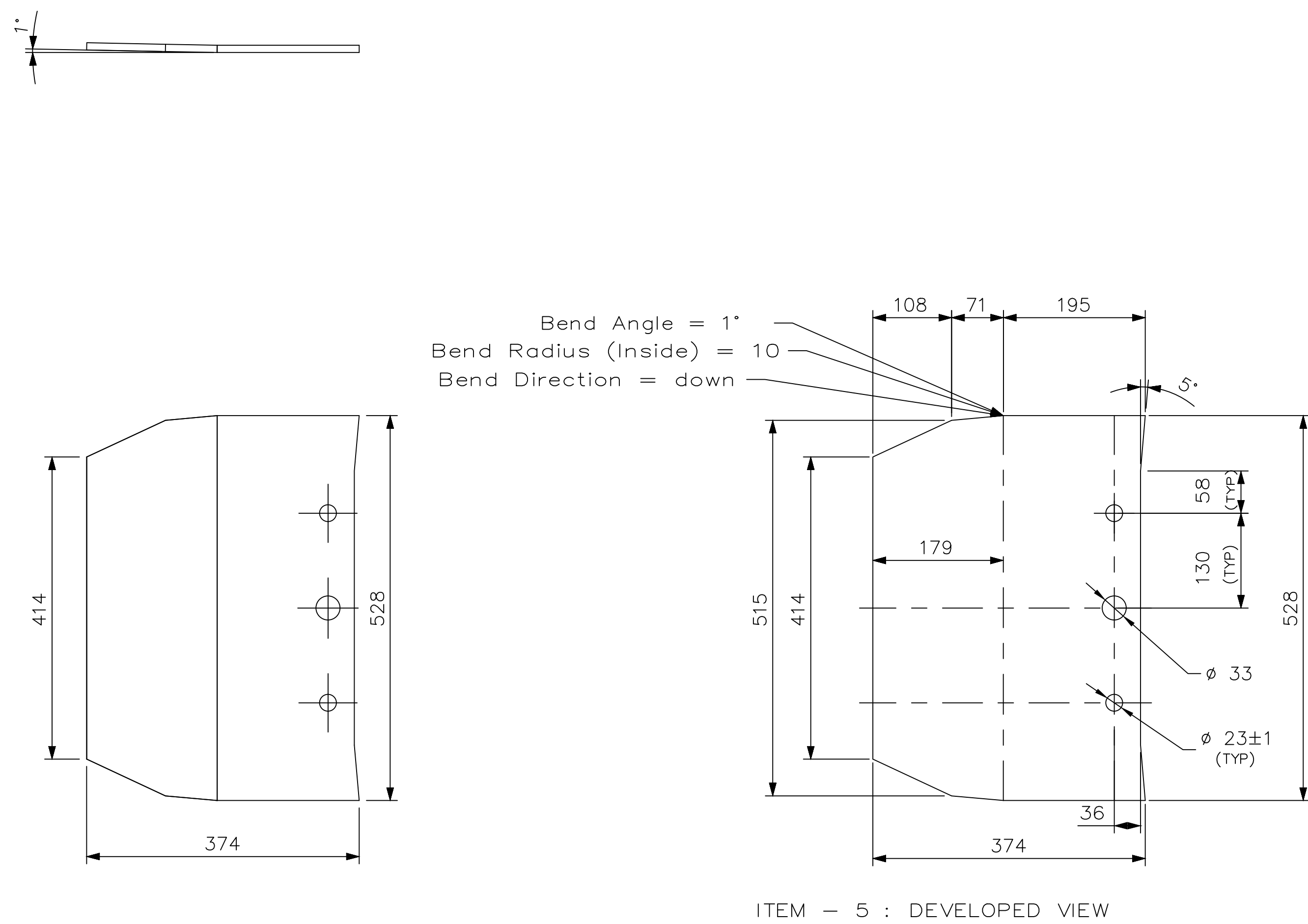
ITEM - 3

ITEM - 10



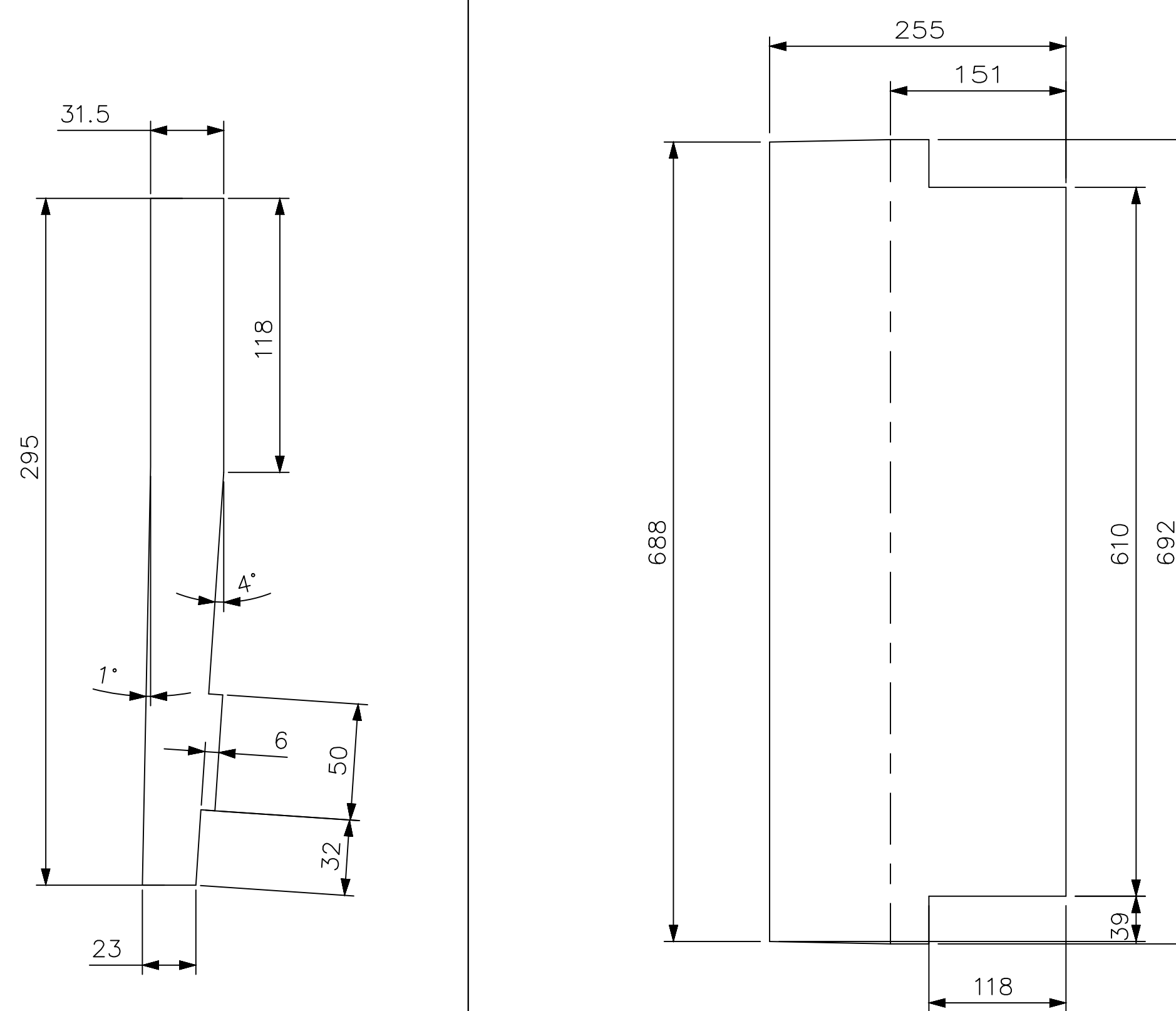
ITEM - 4 : DEVELOPED VIEW

ITEM - 4



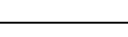
ITEM - 5 : DEVELOPED VIEW

ITEM - 5



ITEM - 6

ITEM - 7

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			Bharat Heavy Electricals Ltd UNIT: HIGH PRESSURE BOILER PLANT TURCHIRAPPALI - 620014			
358-052			DEPT PJ		NAME ABK	
ALL DRAWINGS ARE IN MM			PROJECTION 		SIGNATURE 	
CODE 128			SCALE NTS		DATE 24.05.2012	
TITLE			WEIGHT (Kg) -----		DATE 24.05.2012	
COAL NOZZLE TIP ASSY - ADDITIONAL DETAILS			REF TO ASSY / OLD DWG 0-45-320-01480			
DRAWING NO : 0-45-320-01481			REV 00			

NOTE : FOR TOLERANCES & OTHER ASSEMBLY REQUIREMENTS, REFER DRAWING 0-45-320-01480