

ITEM NO.	
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FOR UNTOLERANCED DIMENSIONS SEE ISO 2768-1:            DESIGNATION  
FOR GENERAL TOLERANCE ON WELDED CONSTRUCTIONS SEE ISO 13920: CLASS

DESIGNATION

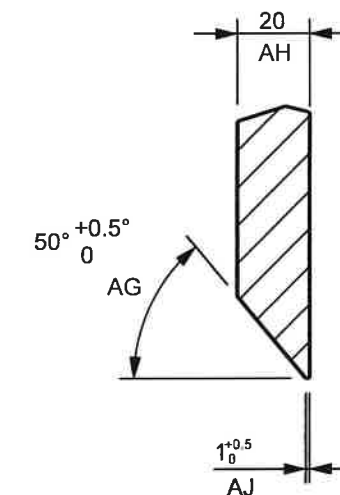
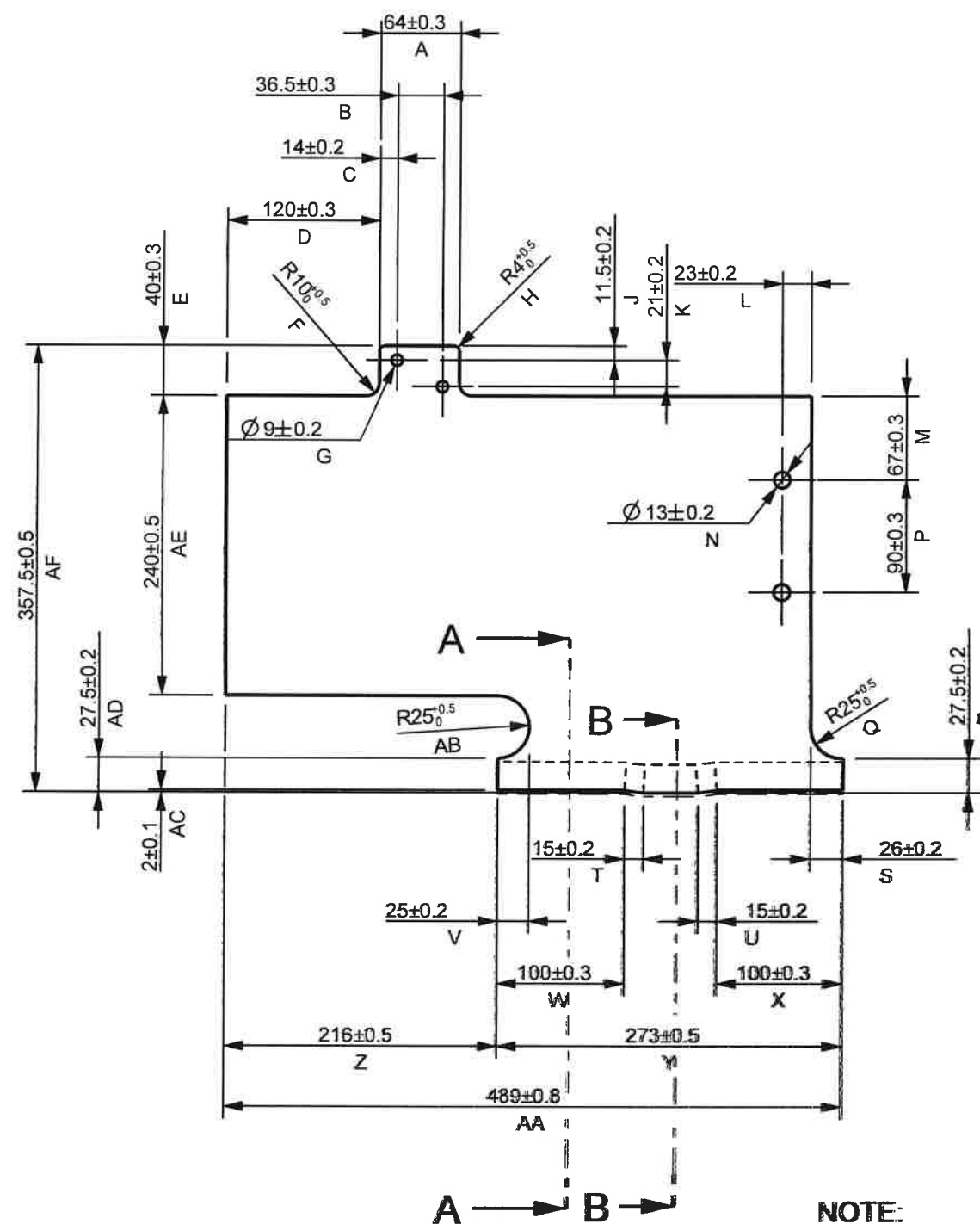
M  
A E

## 2D STATUS

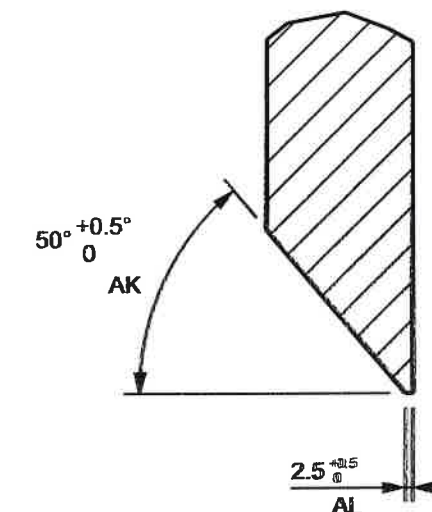
## IN WORK

## GROUP 7.1

GENERAL TOLERANCES	
ISO 14405-1 DIMENSIONAL TOLERANCING	ISO 13920-B F WELDMENTS
ISO 8015 TOLERANCING	EN 10243-F FORGING
ISO 2768-mK-E LINEAR DIMENSIONS, SYMMETRY	DIN 6935 COLD BENDING
ISO 9013-422 THERMAL CUTTING	DIN 6930-m STAMPING
ISO 8062 CASTING	



SECTION A-A  
SCALE 1:2



SECTION B-B  
SCALE 1:1

REV\_5  
TOLERANCE REMOVED  
FROM PLATE THICKNESS  
PD\_PEL\_KLP\_DRW\_23E  
2016-07-13 S.W.S

REV\_4  
TOLERANCES ALTERED  
PD\_PEL\_KLP\_DRW\_23E  
2015-10-10 M.J.M.

REV\_3  
TOLERANCES ALTERED  
PD\_PEL\_KLP\_DRW\_23E  
2015-09-07 M.J.M.

REV\_2  
LETTERS ADDED FOR  
SOP.  
PD\_PEL\_KLP\_DRW\_23E.  
2015-08-07 M.J.M.

REV.1  
DIMENSIONS ALTERED  
AND MACHINING SKETCH  
ADDED  
PD\_PEL\_KLP\_DRW\_23E  
23-06-2015 M.J.M.

## AMENDMENTS

MASS	20.25 Kg
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**NOTE:**  
**FOR CUTTING, REFER TO DRAWING NO: CUT 22A0301**

## PART EDGES ISO 13715

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TRANSNET ENGINEERING

ASSEMBLY DRG No.

DRAWN	M.J.M.
-------	--------

## KILNER PARK

## LOCOMOTIVES

## MATERIAL

[illegible]

CHECKED	M.N.N.
---------	--------

## BASE PLATE

STEEL  
SANS 50025 GRADE S355 J2+N  
PLATE 20  
489 x 358

CLASS	23E
-------	-----

APPROVED	B.E.D.
----------	--------

TYPE	ELECTRIC LOCOMOTIVE
------	---------------------

DATE	
------	--

SHEET 1 OF 1

SCALE	1:5
-------	-----

**A-3** PROJECTION 

DOCUMENT REFERENCE No.

PD PEL KLP DRW 23E

**TRANSNET ENGINEERING**

No.

MAC 22A0301 REV. -5

REV.  
-5

ITEM NO.

BT DRW. REV\_0

FOR UNTOLERANCED DIMENSIONS SEE ISO 2768-1:  
FOR GENERAL TOLERANCE ON WELDED CONSTRUCTIONS SEE ISO 13920: CLASS

DESIGNATION

M  
A  
E

2D STATUS

IN WORK

GROUP 7.1

20 THICK

REV\_4  
TOLERANCES ALTERED  
PD\_PEL\_KLP\_DRW\_23E  
2015-10-16 M.J.M.

REV\_3  
TOLERANCES ALTERED  
PD\_PEL\_KLP\_DRW\_23E  
2015-08-27 M.J.M.

REV\_2  
TOLERANCE HAS BEEN  
AMENDED  
PD\_PEL\_KLP\_DRW\_23E  
2015-05-18 M.P.T.

REV\_1  
CUTTING MARGINS ADDED  
PD\_PEL\_KLP\_DRW\_23E  
2015-05-05. M.N.N.

AMENDMENTS

MASS20.97 Kg

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TRANSNET ENGINEERING

ASSEMBLY DRG No.

DRAWN

M.J.M.

CHECKED

M.N.N.

APPROVED

B.E.D.

DATE

SCALE1:5

CLASS23E

TYPEELECTRIC LOCOMOTIVE

DOCUMENT REFERENCE No.

PD\_PEL\_KLP\_DRW\_23E

KILNER PARK

LOCOMOTIVES

BASE PLATE

CONSOLE RIGHT WHEEL BRAKE

TRANSNET ENGINEERING

No.

CUT\_22A0301

REV.

-4

SHEET 1 OF 1

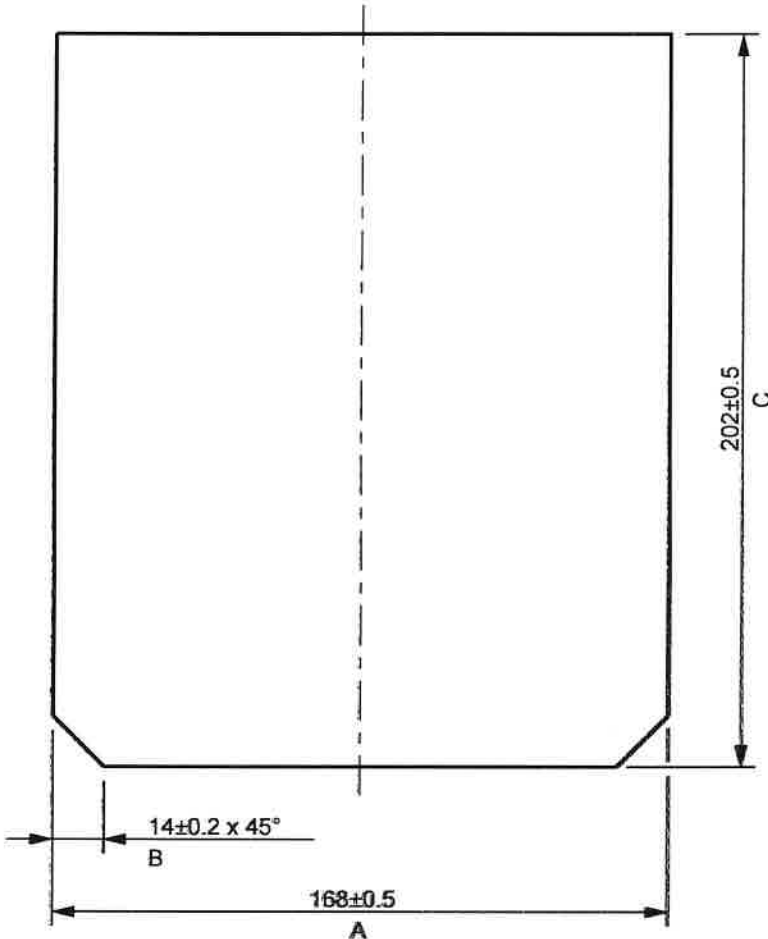


STEEL

SANS 50025 GRADE S355 J2+N

PLATE 20

489 x 361

PART EDGES ISO 13715

ITEM NO.		FOR UNTOLERANCED DIMENSIONS SEE ISO 2768-1:		DESIGNATION		2D STATUS		IN WORK							
BT DRW. REV_0		FOR GENERAL TOLERANCE ON WELDED CONSTRUCTIONS SEE ISO 13920: CLASS		M A E		GENERAL TOLERANCES									
GROUP 7.2						ISO 14405-1 DIMENSIONAL TOLERANCING		ISO 13920-B F WELDMENTS							
						ISO 8015 TOLERANCING		EN 10243-F FORGING							
						ISO 2768-mK-E LINEAR DIMENSIONS, SYMMETRY		DIN 6935 COLD BENDING							
						ISO 9013-422 THERMAL CUTTING		DIN 6930-m STAMPING							
						ISO 8062 CASTING									
															
						12.5 3.2									
															
						NOTE: FOR CUTTING, REFER TO DRAWING NO: CUT_22A0304		PART EDGES ISO 13715							
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				CHECKED				WEB PLATE		STEEL		SANS 50025 GRADE S355 J2+N PLATE 12 202 x 168			
		CLASS 23E		APPROVED		B.E.D.									
		TYPE ELECTRIC LOCOMOTIVE		DATE											
				SCALE		1:2				SHEET 1 OF 1					
A-3		PROJECTION		DOCUMENT REFERENCE No.		PD_PEL_KLP_DRW_23E		TRANSNET ENGINEERING		No.		MAC_22A0304		REV. -5	





ITEM NO.   
 BT DRW. REV\_0

FOR UNTOLERANCED DIMENSIONS SEE ISO 2768-1: DESIGNATION   
 FOR GENERAL TOLERANCE ON WELDED CONSTRUCTIONS SEE ISO 13920: CLASS

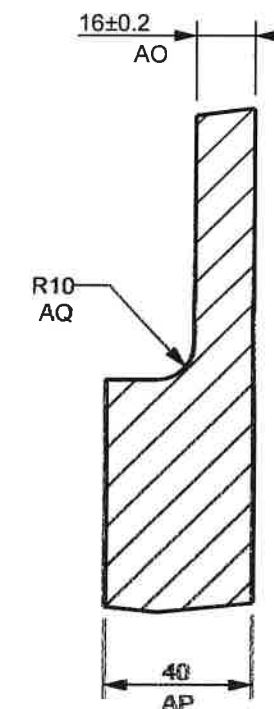
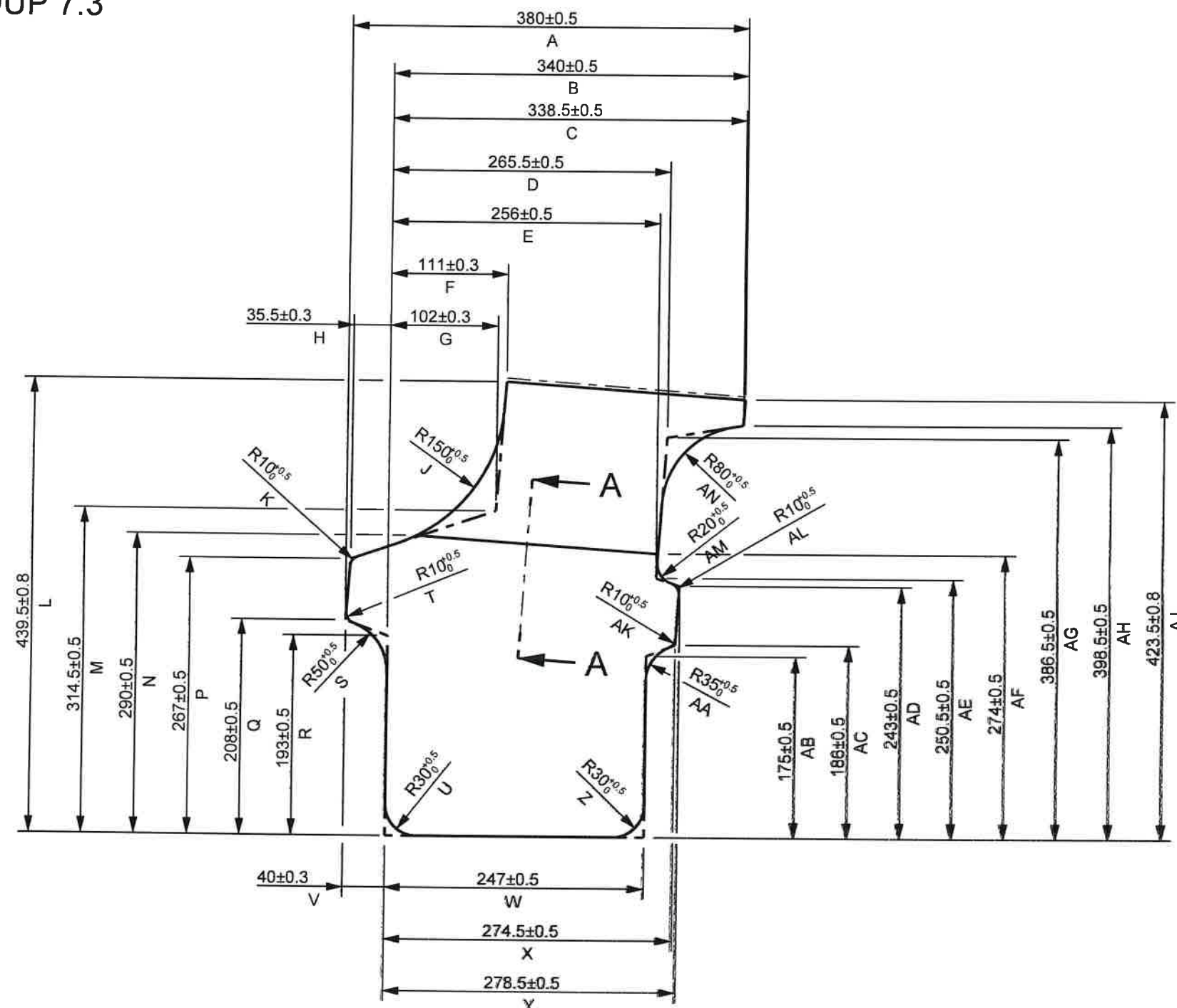
M   
 A E

2D STATUS IN WORK

GENERAL TOLERANCES

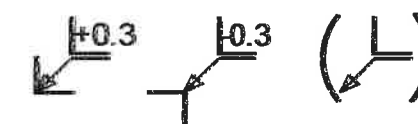
ISO 14405-1 DIMENSIONAL TOLERANCING	ISO 13920-B F WELDMENTS
ISO 8015 TOLERANCING	EN 10243-F FORGING
ISO 2768-mK-E LINEAR DIMENSIONS, SYMMETRY	DIN 6935 COLD BENDING
ISO 9013-422 THERMAL CUTTING	DIN 6930-m STAMPING
ISO 8062 CASTING	

## GROUP 7.3



SECTION A-A  
SCALE 1:2

12.5 3.2



NOTE:  
FOR CUTTING, REFER TO DRAWING NO: CUT\_22A0306

PART EDGES ISO 13715

REV\_4  
TOLERANCE REMOVED  
FROM PLATE THICKNESS  
PD\_PEL\_KLP\_DRW\_23E  
2016-07-13 S.W.S

REV\_3  
TOLERANCES ALTERED  
PD\_PEL\_KLP\_DRW\_23E  
2015-10-10 M.J.M.

REV\_2  
LETTERS ADDED FOR  
SOP.  
PD\_PEL\_KLP\_DRW\_23E.  
2015-08-07 M.J.M.

REV\_1  
MACHINING SKETCH  
ADDED  
PD\_PEL\_KLP\_DRW\_23E  
23-06-2015 M.J.M.

AMENDMENTS

MASS 27.31 Kg

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ASSEMBLY DRG No.

DRAWN M.J.M.

CHECKED M.N.N.

CLASS 23E

APPROVED B.E.D.

TYPE ELECTRIC LOCOMOTIVE

DATE

SCALE 1:5

DOCUMENT REFERENCE No.

PD\_PEL\_KLP\_DRW\_23E

KILNER PARK LOCOMOTIVES

FLANGE PLATE

MATERIAL  
STEEL  
SANS 50025 GRADE S355 J2+N  
PLATE 40  
380 x 440

SHEET 1 OF 1

A-3 PROJECTION



TRANSNET ENGINEERING

No.

MAC\_22A0306

REV. -4

ITEM NO.   
 BT DRW. REV\_0

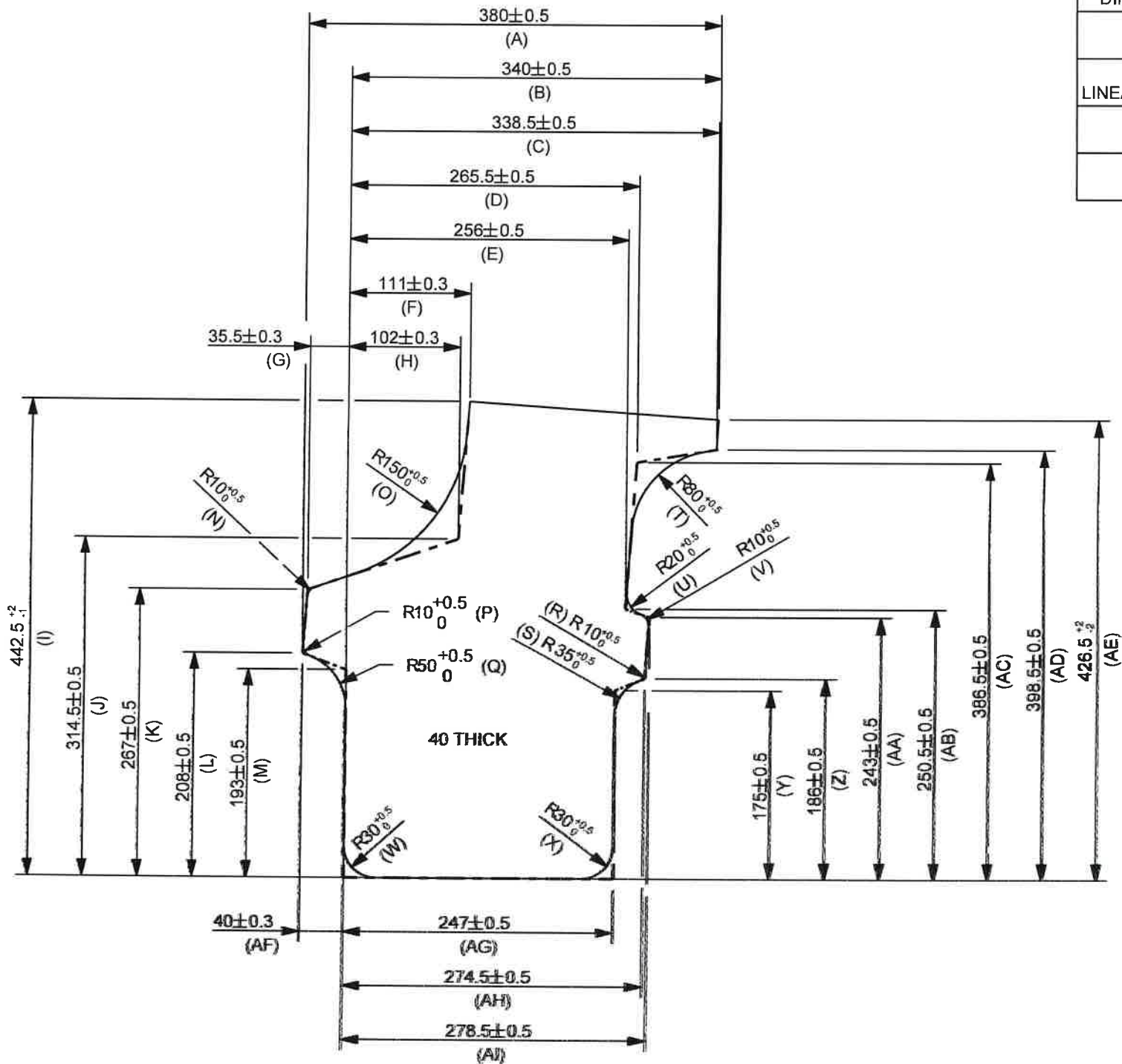
FOR UNTOLERANCED DIMENSIONS SEE ISO 2768-1: DESIGNATION   
 FOR GENERAL TOLERANCE ON WELDED CONSTRUCTIONS SEE ISO 13920: CLASS

M   
 A E

2D STATUS   
 IN WORK

GROUP 7.3

GENERAL TOLERANCES	
ISO 14405-1 DIMENSIONAL TOLERANCING	ISO 13920-B F WELDMENTS
ISO 8015 TOLERANCING	EN 10243-F FORGING
ISO 2768-mK-E LINEAR DIMENSIONS, SYMMETRY	DIN 6935 COLD BENDING
ISO 9013-422 THERMAL CUTTING	DIN 6930-m STAMPING
ISO 8062 CASTING	



REV\_4  
TOLERANCES ALTERED  
PD\_PEL\_KLP\_DRW\_23E  
2015-10-16 M.J.M.

REV\_3  
TOLERANCES ALTERED  
PD\_PEL\_KLP\_DRW\_23E  
2015-08-27 M.J.M.

REV\_2  
TOLERANCE HAS BEEN  
AMENDED  
PD\_PEL\_KLP\_DRW\_23E  
2015-05-18 M.P.T.

REV\_1  
CUTTING MARGINS ADDED  
PD\_PEL\_KLP\_DRW\_23E  
2015-05-05. M.N.N.



PART EDGES ISO 13715

AMENDMENTS  
MASS 33.22 Kg

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ASSEMBLY DRG No.	DRAWN	M.J.M.
	CHECKED	M.N.N.
CLASS 23E	APPROVED	B.E.D.
TYPE ELECTRIC LOCOMOTIVE	DATE	
	SCALE	1:5

KILNER PARK LOCOMOTIVES  
**FLANGE PLATE**  
CONSOLE RIGHT WHEEL BRAKE

**MATERIAL**

STEEL  
SANS 50025 GRADE S355 J2+N  
PLATE 40  
380 x 443

SHEET 1 OF 1

A-3 PROJECTION

DOCUMENT REFERENCE No. PD\_PEL\_KLP\_DRW\_23E

TRANSNET ENGINEERING

No.

CUT 22A0306

REV. -4



ITEM NO.   
 BT DRW. REV\_0

FOR UNTOLERANCED DIMENSIONS SEE ISO 2768-1:   
 FOR GENERAL TOLERANCE ON WELDED CONSTRUCTIONS SEE ISO 13920: CLASS

DESIGNATION

M   
 A E

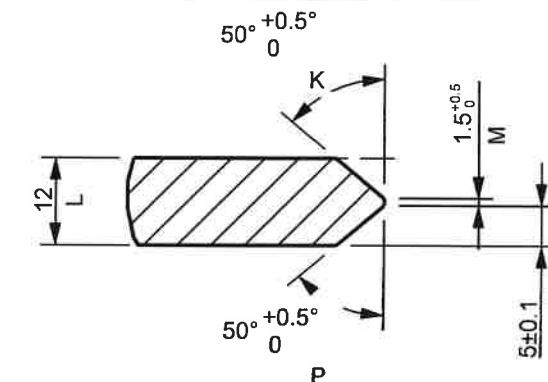
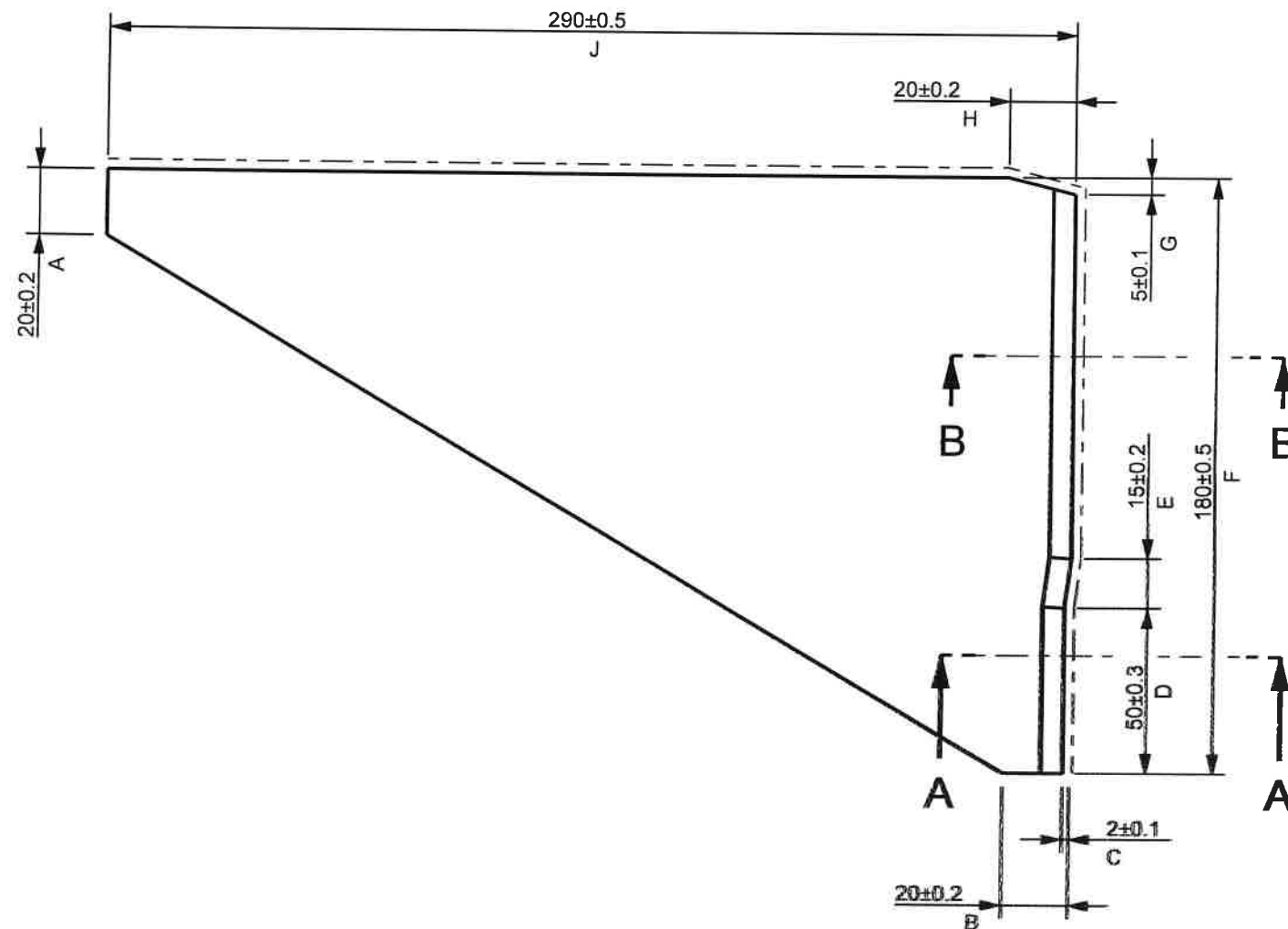
2D STATUS

IN WORK

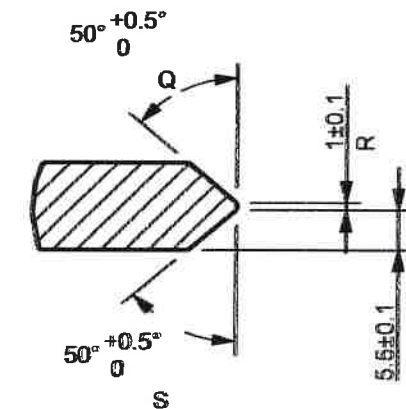
GROUP 7.4

GENERAL TOLERANCES

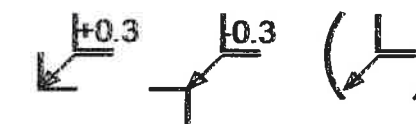
ISO 14405-1 DIMENSIONAL TOLERANCING	ISO 13920-B F WELDMENTS
ISO 8015 TOLERANCING	EN 10243-F FORGING
ISO 2768-mK-E LINEAR DIMENSIONS, SYMMETRY	DIN 6935 COLD BENDING
ISO 9013-422 THERMAL CUTTING	DIN 6930-m STAMPING
ISO 8062 CASTING	



SECTION B-B  
SCALE 1:1



SECTION A-A  
SCALE 1:1



NOTE:  
FOR CUTTING, REFER TO DRAWING NO: CUT\_22A0307

REV\_5  
TOLERANCE REMOVED  
FROM PLATE THICKNESS  
PD\_PEL\_KLP\_DRW\_23E  
2016-07-13 S.W.S

REV\_4  
TOLERANCES ALTERED  
PD\_PEL\_KLP\_DRW\_23E  
2015-10-10 M.J.M.

REV\_3  
TOLERANCES ALTERED  
PD\_PEL\_KLP\_DRW\_23E  
2015-09-07 M.J.M.

REV\_2  
LETTERS ADDED FOR  
SOP.  
PD\_PEL\_KLP\_DRW\_23E.  
2015-08-07 M.J.M.

REV\_1  
MACHINING SKETCH  
ADDED  
PD\_PEL\_KLP\_DRW\_23E  
23-06-2015 M.J.M.

AMENDMENTS

MASS 2.82 Kg

MATERIAL

STEEL  
SANS 50025 GRADE S355 J2+N  
PLATE 12  
290 x 180

SHEET 1 OF 1

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TRANSNET ENGINEERING

ASSEMBLY DRG No.

DRAWN

M.J.M.

CHECKED

CLASS 23E

APPROVED

B.E.D.

TYPE ELECTRIC LOCOMOTIVE

DATE

SCALE

1:2

DOCUMENT REFERENCE No.

PD\_PEL\_KLP\_DRW\_23E

KILNER PARK

LOCOMOTIVES

STIFFENER

TRANSNET ENGINEERING

No.

MAC 22A0307 REV. -5

ITEM NO.

BT DRW. REV\_0

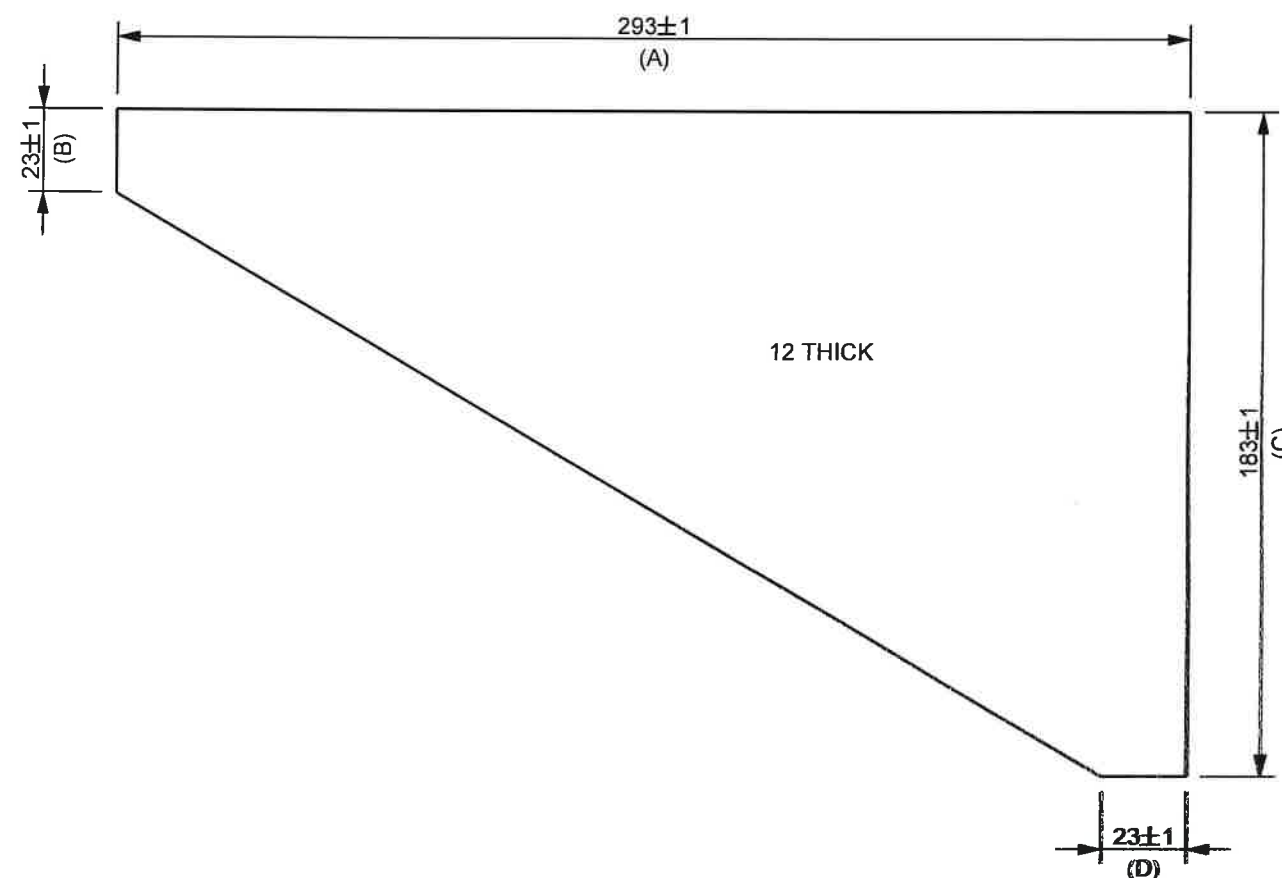
Group 7.4

FOR UNTOLERANCED DIMENSIONS SEE ISO 2768-1: DESIGNATION  
FOR GENERAL TOLERANCE ON WELDED CONSTRUCTIONS SEE ISO 13920: CLASS

M  
A E

2D STATUS IN WORK

GENERAL TOLERANCES	
ISO 14405-1 DIMENSIONAL TOLERANCING	ISO 13920-B F WELDMENTS
ISO 8015 TOLERANCING	EN 10243-F FORGING
ISO 2768-mK-E LINEAR DIMENSIONS, SYMMETRY	DIN 6935 COLD BENDING
ISO 9013-422 THERMAL CUTTING	DIN 6930-m STAMPING
ISO 8062 CASTING	



PART EDGES ISO 13715

REV\_3  
DRAWING UPDATED  
PD\_PEL\_KLP\_DRW\_23E  
2016-07-04 S.W.S.

REV\_2  
TOLERANCE HAS BEEN  
AMENDED  
PD\_PEL\_KLP\_DRW\_23E  
2015-05-18 M.P.T.

REV\_1  
CUTTING MARGINS ADDED  
PD\_PEL\_KLP\_DRW\_23E  
2015-05-05. M.N.N.

AMENDMENTS

MASS 2.88 Kg

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ASSEMBLY DRG No.

DRAWN

M.J.M.

CHECKED

M.N.N.

CLASS 23E

APPROVED

B.E.D.

TYPE ELECTRIC LOCOMOTIVE

DATE

SCALE

1:2

DOCUMENT REFERENCE No.

PD\_PEL\_KLP\_DRW\_23E

KILNER PARK

LOCOMOTIVES

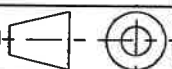
**STIFFENER**  
**CONSOLE RIGHT WHEEL BRAKE**

**MATERIAL**

STEEL  
SANS 50025 GRADE S355 J2+N  
PLATE 12  
293 x 183

SHEET 1 OF 1

A-3 PROJECTION



TRANSNET ENGINEERING

No.

CUT\_22A0307

REV\_-3



ITEM NO. \_\_\_\_\_  
BT DRW. REV\_0

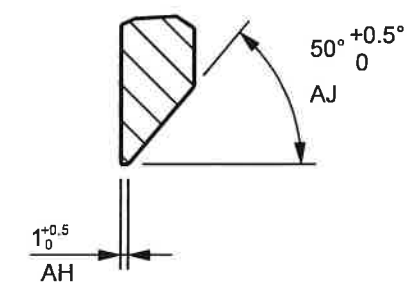
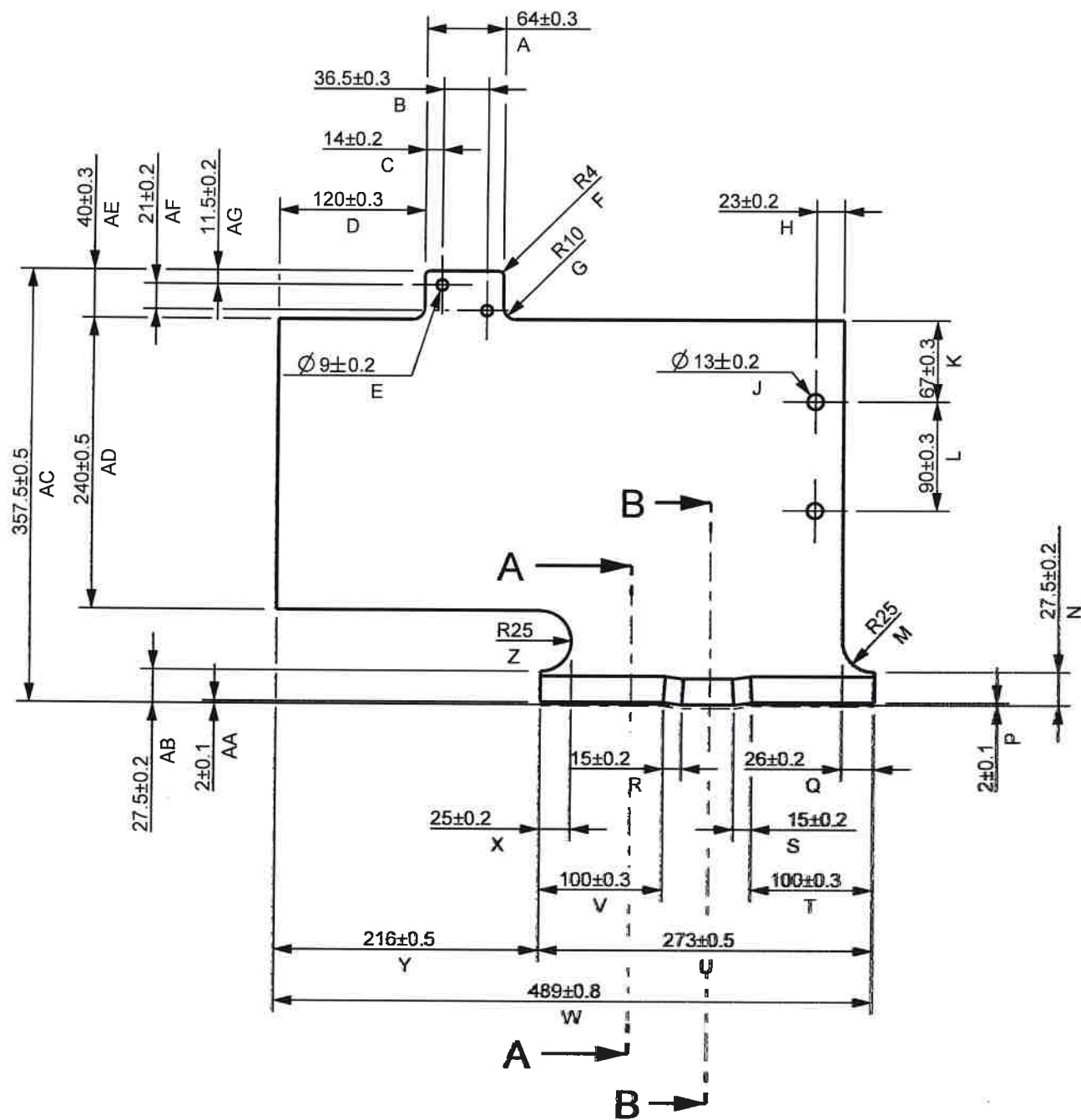
FOR UNTOLERANCED DIMENSIONS SEE ISO 2768-1: DESIGNATION  
FOR GENERAL TOLERANCE ON WELDED CONSTRUCTIONS SEE ISO 13920: CLASS

M  
A E

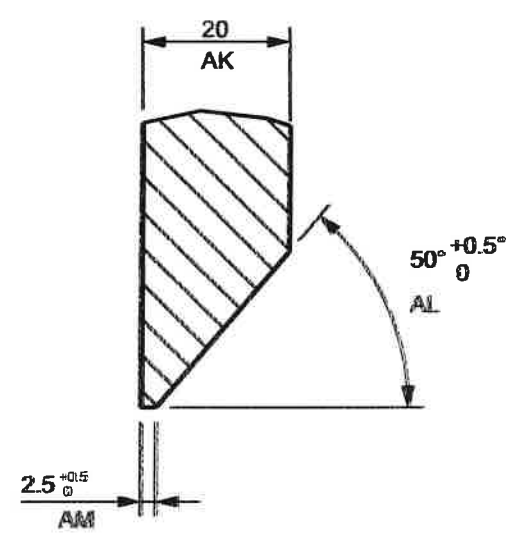
2D STATUS IN WORK

GROUP 7.5

GENERAL TOLERANCES	
ISO 14405-1 DIMENSIONAL TOLERANCING	ISO 13920-B F WELDMENTS
ISO 8015 TOLERANCING	EN 10243-F FORGING
ISO 2768-mK-E LINEAR DIMENSIONS, SYMMETRY	DIN 6935 COLD BENDING
ISO 9013-422 THERMAL CUTTING	DIN 6930-m STAMPING
ISO 8062 CASTING	

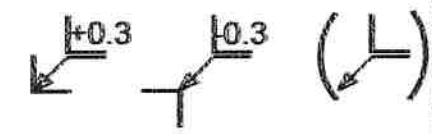


SECTION A-A  
SCALE 1:2



SECTION B-B  
SCALE 1:1

12.5 3.2



PART EDGES ISO 13715

NOTE:  
FOR CUTTING, REFER TO DRAWING NO: CUT\_22A0401

REV\_5  
TOLERANCE REMOVED  
FROM PLATE THICKNESS  
PD\_PEL\_KLP\_DRW\_23E  
2016-07-13 S.W.S

REV\_4  
TOLERANCES ALTERED  
PD\_PEL\_KLP\_DRW\_23E  
2015-10-10 M.J.M.

REV\_3  
TOLERANCES ALTERED  
PD\_PEL\_KLP\_DRW\_23E  
2015-09-07 M.J.M.

REV\_2  
LETTERS ADDED FOR  
SOP.  
PD\_PEL\_KLP\_DRW\_23E.  
2015-08-07 M.J.M.

REV\_1  
MACHINING SKETCH  
ADDED  
PD\_PEL\_KLP\_DRW\_23E  
23-06-2015 M.J.M.

AMENDMENTS  
MASS 20.29 Kg

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ASSEMBLY DRG No.	DRAWN	M.J.M.
	CHECKED	M.N.N.
CLASS 23E	APPROVED	B.E.D.
TYPE ELECTRIC LOCOMOTIVE	DATE	
	SCALE	1:5

A-3 PROJECTION

DOCUMENT REFERENCE No. PD\_PEL\_KLP\_DRW\_23E

KILNER PARK LOCOMOTIVES

BASE PLATE

MATERIAL

STEEL  
SANS 50025 GRADE S355 J2+N  
PLATE 20  
489 x 358

SHEET 1 OF 1

TRANSNET ENGINEERING

No. MAC\_22A0401 REV. -5

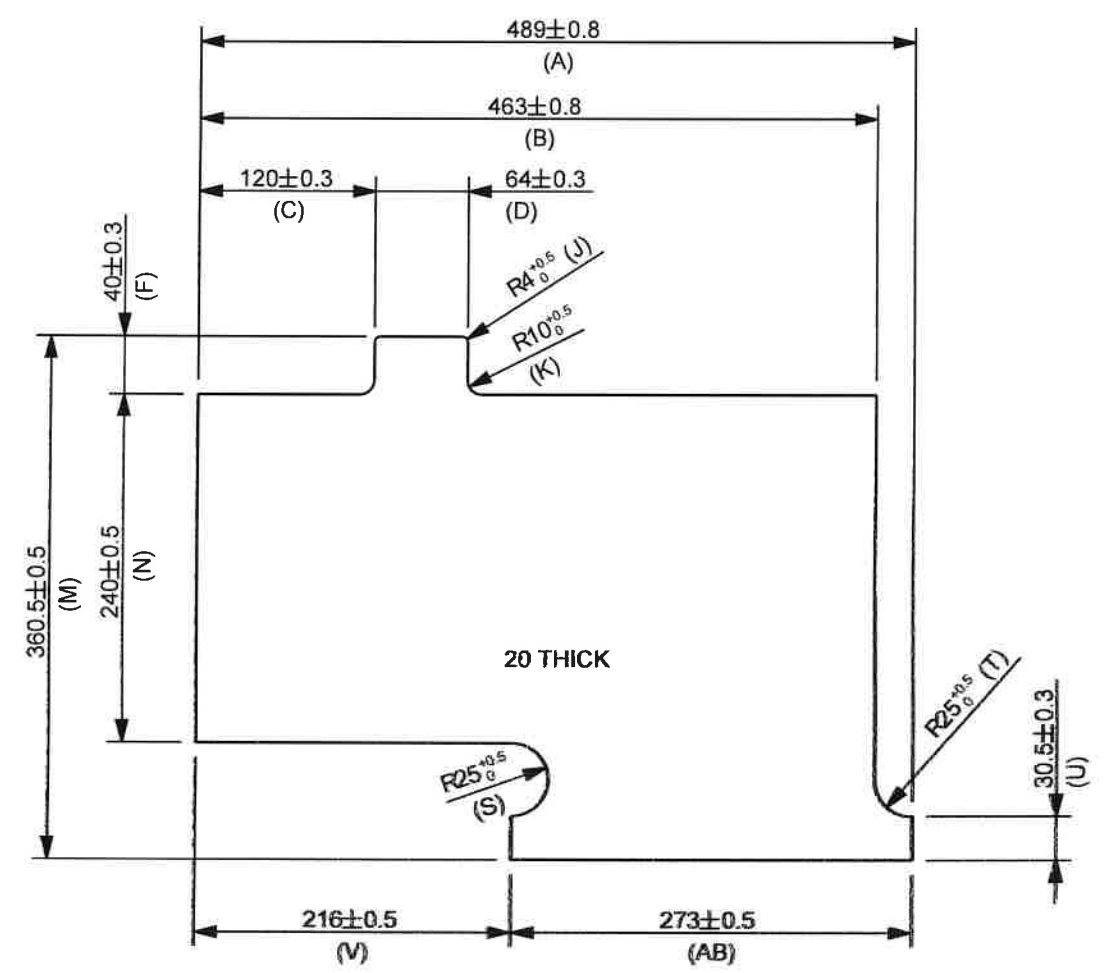
ITEM NO.

BT DRW. REV\_0

FOR UNTOLERANCED DIMENSIONS SEE ISO 2768-1:      DESIGNATION M  
FOR GENERAL TOLERANCE ON WELDED CONSTRUCTIONS SEE ISO 13920: CLASS A E

2D STATUS	IN WORK
GENERAL TOLERANCES	
ISO 14405-1 DIMENSIONAL TOLERANCING	ISO 13920-B F WELDMENTS
ISO 8015 TOLERANCING	EN 10243-F FORGING
ISO 2768-mK-E LINEAR DIMENSIONS, SYMMETRY	DIN 6935 COLD BENDING
ISO 9013-422 THERMAL CUTTING	DIN 6930-m STAMPING
ISO 8062 CASTING	

GROUP 7.5

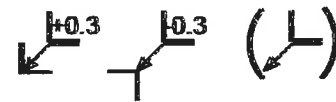


REV\_4  
TOLERANCES ALTERED  
PD\_PEL\_KLP\_DRW\_23E  
2015-10-16 M.J.M.

REV\_3  
TOLERANCES ALTERED  
PD\_PEL\_KLP\_DRW\_23E  
2015-08-27 M.J.M.

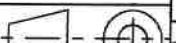
REV\_2  
TOLERANCE HAS BEEN  
AMENDED  
PD\_PEL\_KLP\_DRW\_23E  
2015-05-18 M.P.T.

REV\_1  
CUTTING MARGINS ADDED  
PD\_PEL\_KLP\_DRW\_23E  
2015-05-04 M.J.M.



PART EDGES ISO 13715

AMENDMENTS	
MASS	20.97 Kg

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				CHECKED	M.N.N.	BASE PLATE CONSOLE LEFT WHEELSET BRAKE					
		CLASS 23E		APPROVED	B.E.D.						
		TYPE ELECTRIC LOCOMOTIVE		DATE							
				SCALE	1:5	TRANSNET ENGINEERING		No.		CUT 22A0401	
DOCUMENT REFERENCE No.		PD_PEL_KLP_DRW_23E									
						SHEET 1 OF 1		STEEL SANS 50025 GRADE S355 J2+N PLATE 20 489 x 360			

ITEM NO.

BT DRW. REV\_0

FOR UNTOLERANCED DIMENSIONS SEE ISO 2788-1.  
FOR GENERAL TOLERANCE ON WELDED CONSTRUCTIONS SEE ISO 13920: CLASS

DESIGNATION

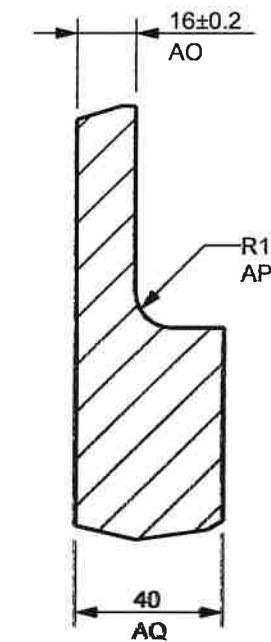
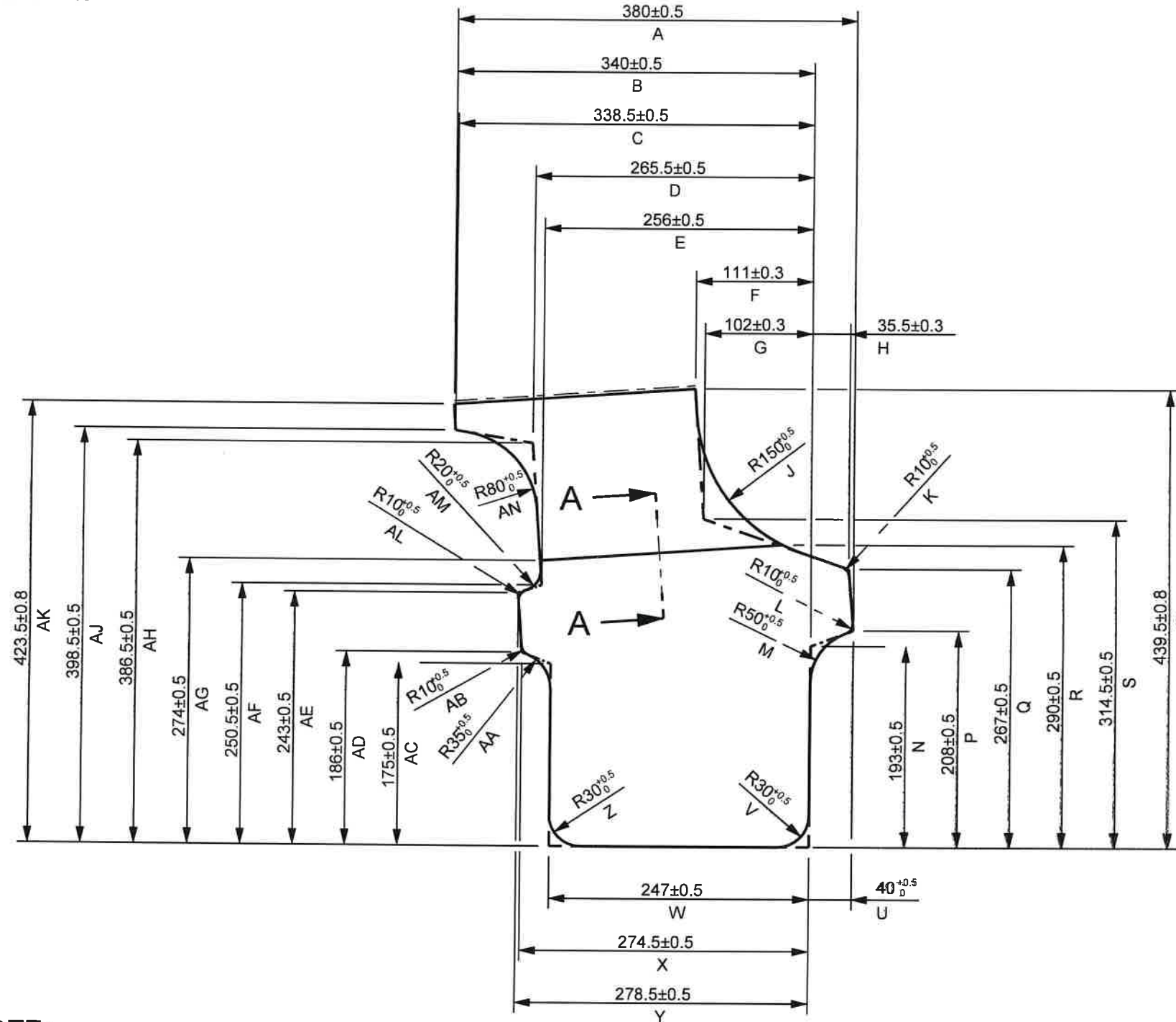
M  
A E

2D STATUS

IN WORK

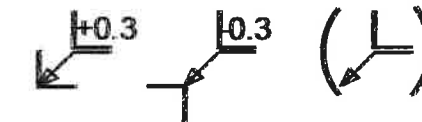
GROUP 7.6

GENERAL TOLERANCES	
ISO 14405-1 DIMENSIONAL TOLERANCING	ISO 13920-B F WELDMENTS
ISO 8015 TOLERANCING	EN 10243-F FORGING
ISO 2768-mK-E LINEAR DIMENSIONS, SYMMETRY	DIN 6935 COLD BENDING
ISO 9013-422 THERMAL CUTTING	DIN 6930-m STAMPING
ISO 8062 CASTING	



SECTION A-A  
SCALE 1:2

12.5  
3.2



PART EDGES ISO 13715

REV 4  
TOLERANCE REMOVED  
FROM PLATE THICKNESS  
PD\_PEL\_KLP\_DRW\_23E  
2016-07-13 S.W.S


REV 3  
TOLERANCES ALTERED  
PD\_PEL\_KLP\_DRW\_23E  
2015-10-10 M.J.M.

REV 2  
LETTERS ADDED FOR  
SOP.  
PD\_PEL\_KLP\_DRW\_23E.  
2015-08-07 M.J.M.

REV 1  
MACHINING SKETCH  
ADDED  
PD\_PEL\_KLP\_DRW\_23E  
23-06-2015 M.J.M.

AMENDMENTS  
MASS 27.31 Kg

NOTE:  
FOR CUTTING, REFER TO DRAWING NO: CUT\_22A0406

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				CHECKED	M.N.N.	FLANGE PLATE								STEEL SANS 50025 GRADE S355 J2+N PLATE 40 380 x 440											
		CLASS 23E		APPROVED	B.E.D.																				
		TYPE ELECTRIC LOCOMOTIVE		DATE																					
				SCALE	1:5	SHEET 1 OF 1																			
A-3		PROJECTION				DOCUMENT REFERENCE No.				PD_PEL_KLP_DRW_23E				TRANSNET ENGINEERING				No.		MAC 22A0406				REV. -4	



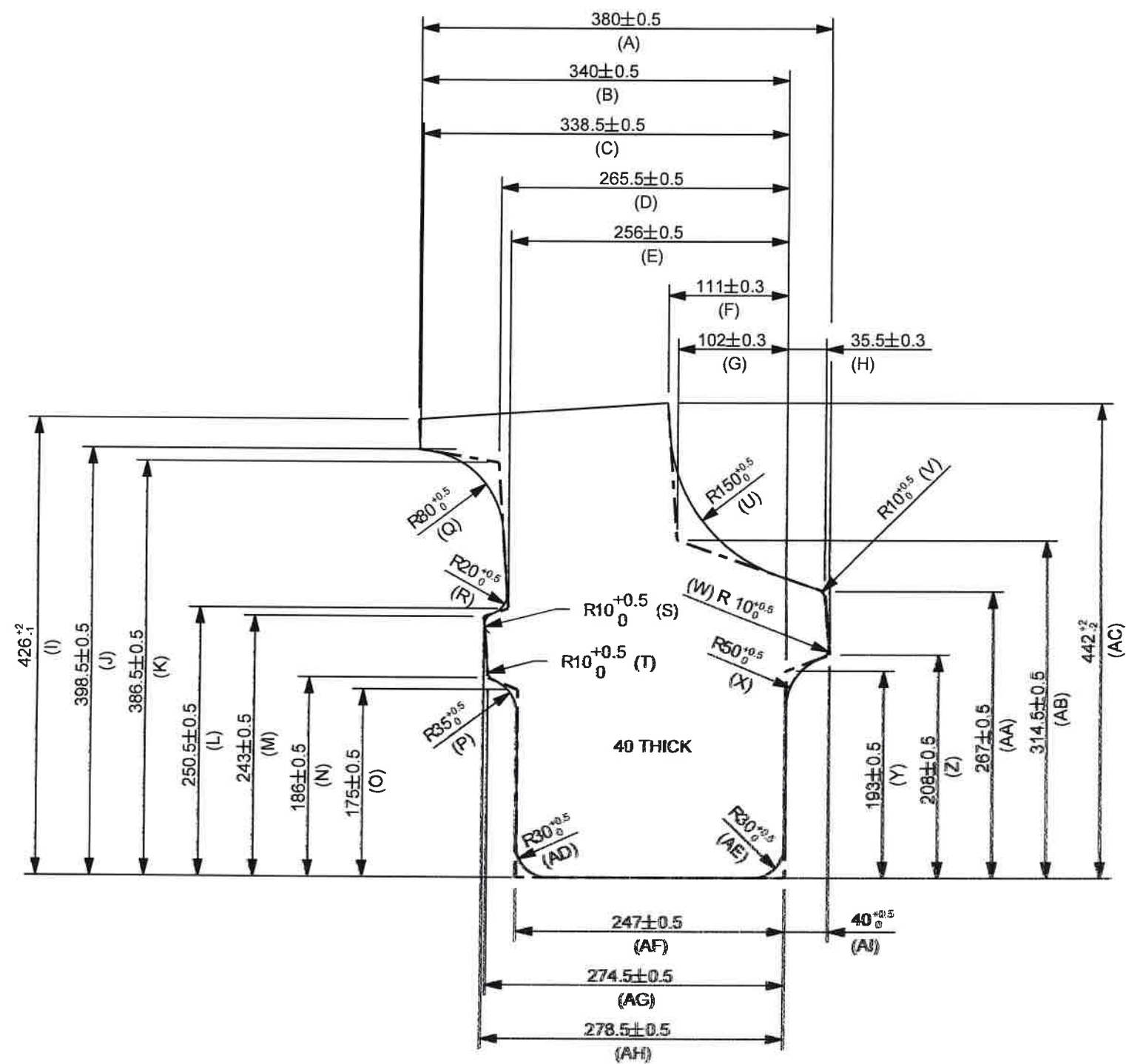
ITEM NO.   
 BT DRW. REV\_0

FOR UNTOLERANCED DIMENSIONS SEE ISO 2768-1: DESIGNATION   
 FOR GENERAL TOLERANCE ON WELDED CONSTRUCTIONS SEE ISO 13920: CLASS

M   
 A E

2D STATUS	IN WORK
GENERAL TOLERANCES	
ISO 14405-1 DIMENSIONAL TOLERANCING	ISO 13920-B F WELDMENTS
ISO 8015 TOLERANCING	EN 10243-F FORGING
ISO 2768-mK-E LINEAR DIMENSIONS, SYMMETRY	DIN 6935 COLD BENDING
ISO 9013-422 THERMAL CUTTING	DIN 6930-m STAMPING
ISO 8062 CASTING	

GROUP 7.6



PART EDGES ISO 13715

REV 4 TOLERANCES ALTERED PD_PEL_KLP_DRW_23E 2015-10-16 M.J.M.
REV 3 TOLERANCES ALTERED PD_PEL_KLP_DRW_23E 2015-08-27 M.J.M.
REV 2 TOLERANCE HAS BEEN AMENDED PD_PEL_KLP_DRW_23E 2015-05-18 M.P.T.
REV 1 CUTTING MARGINS ADDED PD_PEL_KLP_DRW_23E 2015-05-04 M.J.M.
AMENDMENTS
MASS 33.22 Kg

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		CHECKED	M.N.N.
	CLASS 23E	APPROVED	B.E.D.
	TYPE ELECTRIC LOCOMOTIVE	DATE	
		SCALE	1:5
A-3	PROJECTION	DOCUMENT REFERENCE No.	PD_PEL_KLP_DRW_23E

KILNER PARK LOCOMOTIVES  
FLANGE PLATE  
CONSOLE LEFT WHEELSET BRAKE

MATERIAL  
STEEL  
SANS 50025 GRADE S355 J2+N  
PLATE 40  
442 x 380

SHEET 1 OF 1

TRANSNET ENGINEERING

No.

CUT\_22A0406

REV. -4