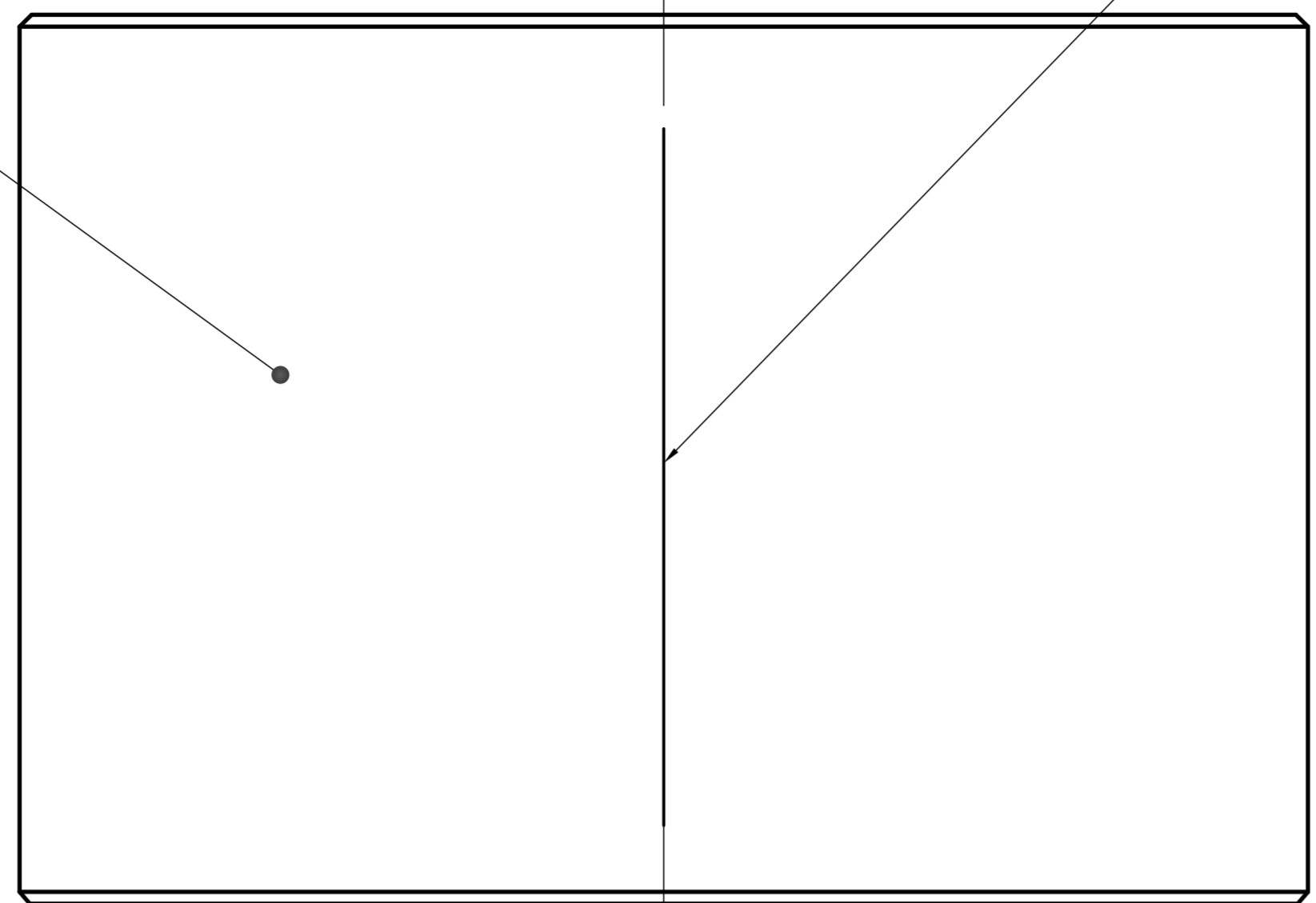


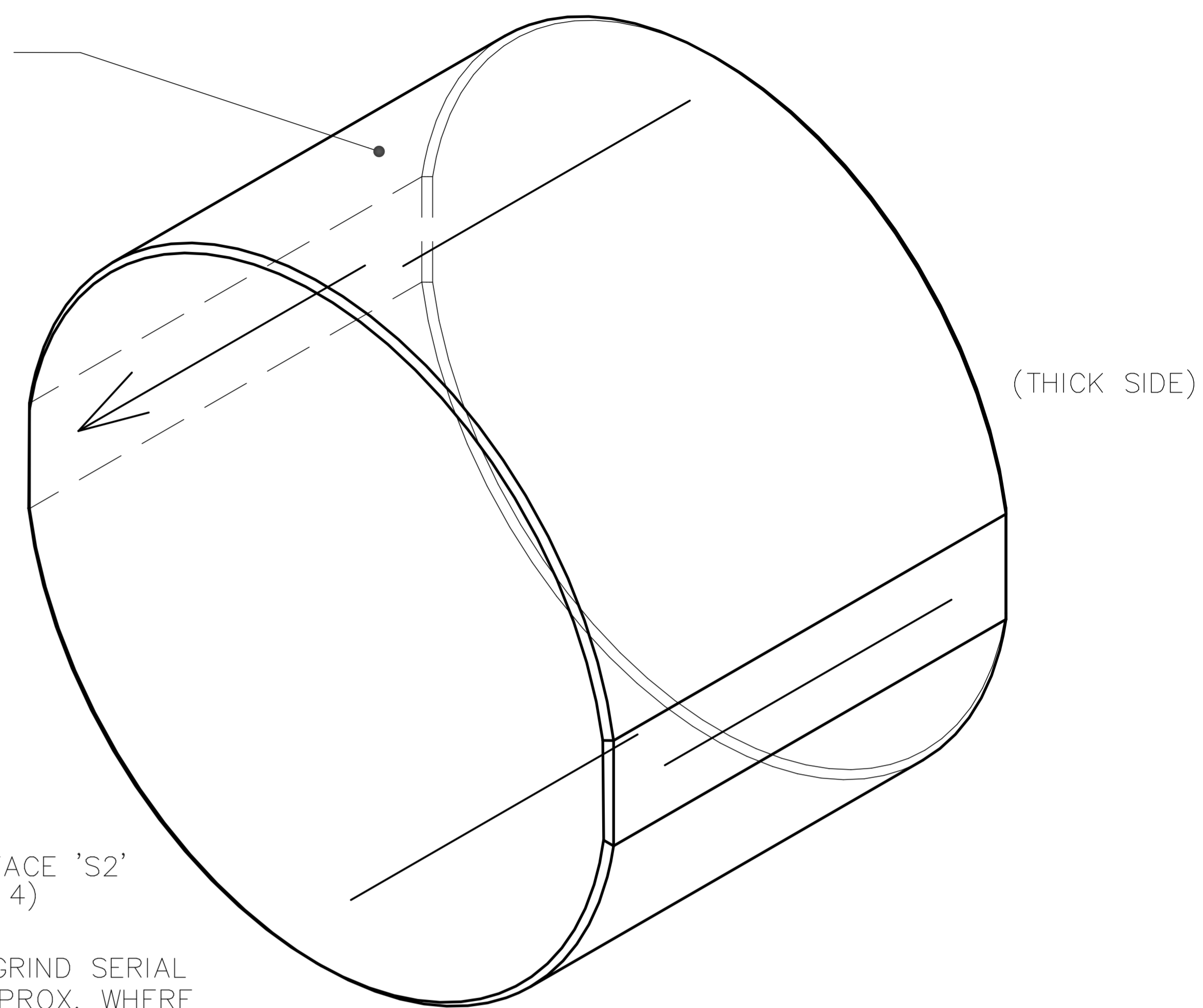
ETCH OR GRIND LEGIBLE REFERENCE GROOVE
(0.25mm±0.05mm WIDE) ALONG CENTER LINE WITHIN
±1° CLOCKING ANGLE (WITH RESPECT TO DATAUM
FEATURE A), PARALLEL TO THE CYLINDRICAL AXIS
(DEFINED BY DATUM FEATURE A) WITHIN ±0.1mm.

BARREL (SIDE) AND BEVEL
POLISH (SEE NOTE 3)



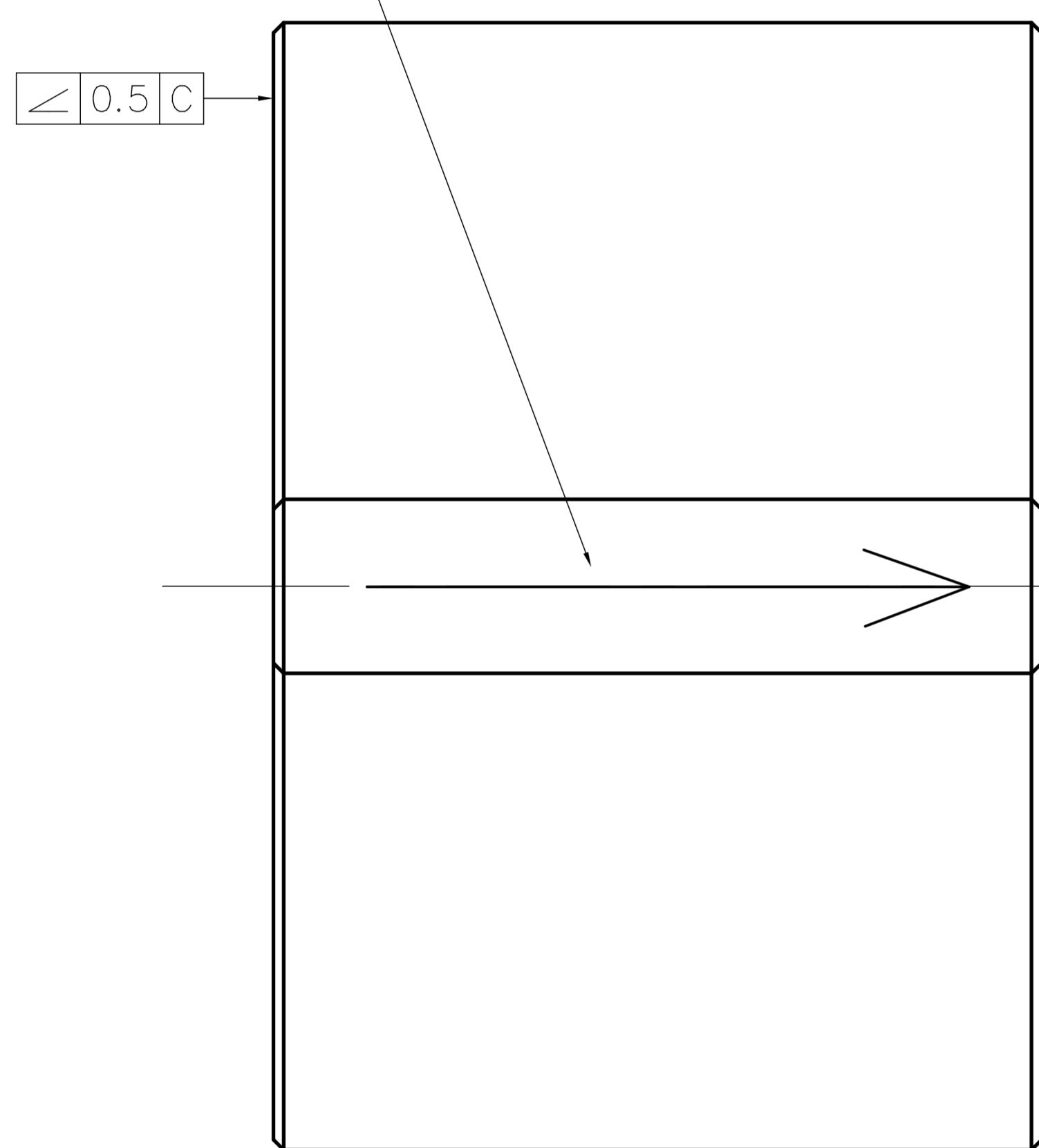
TOP VIEW

SUBSTRATE IS SHOWN IN SUSPENDED STATE
WITH HORIZONTAL WEDGE (THICK SIDE RIGHT).
THE ARROWED LINE IS SHOWN ON THE THIN
SIDE AND AS STATED PONTS TO SURFACE 'S1'



(THICK SIDE)

ETCH OR GRIND LEGIBLE REFERENCE GROOVE
(0.25mm±0.05mm WIDE) ALONG CENTER LINE WITHIN
±1° CLOCKING ANGLE (WITH RESPECT TO DATAUM
FEATURE A), PARALLEL TO THE CYLINDRICAL AXIS
(DEFINED BY DATUM FEATURE A) WITH ARROW
POINTING TO SURFACE 'S1' WITHIN ±0.1mm.



Φ220.00±0.25
⊥ 0.1
⊥ 0.25 C

90°
(30)

⊥ 0.25 C

S3

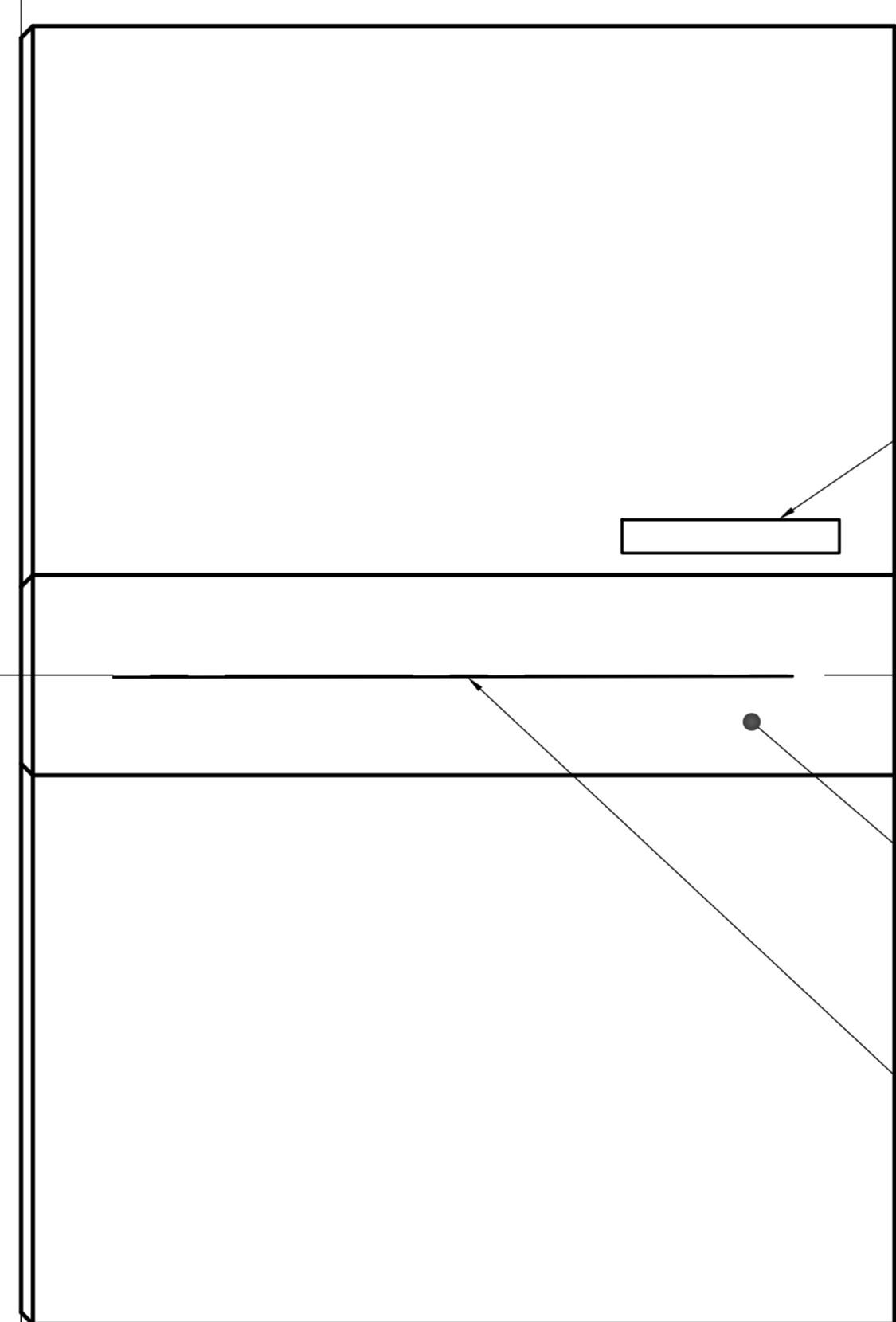
S1

217.4±0.2

⊕ 0.2 A

S5 POLISH SURFACE 'S5'
(SEE NOTE 3)

C



S2
POLSH SURFACE 'S2'
(SEE NOTE 4)

ETCH OR GRIND SERIAL
NUMBER APROX. WHERE
SHOWN, LETERING APPROX.
4mm HIGH (SEE NOTE 6 FOR
MORE DETAILS)

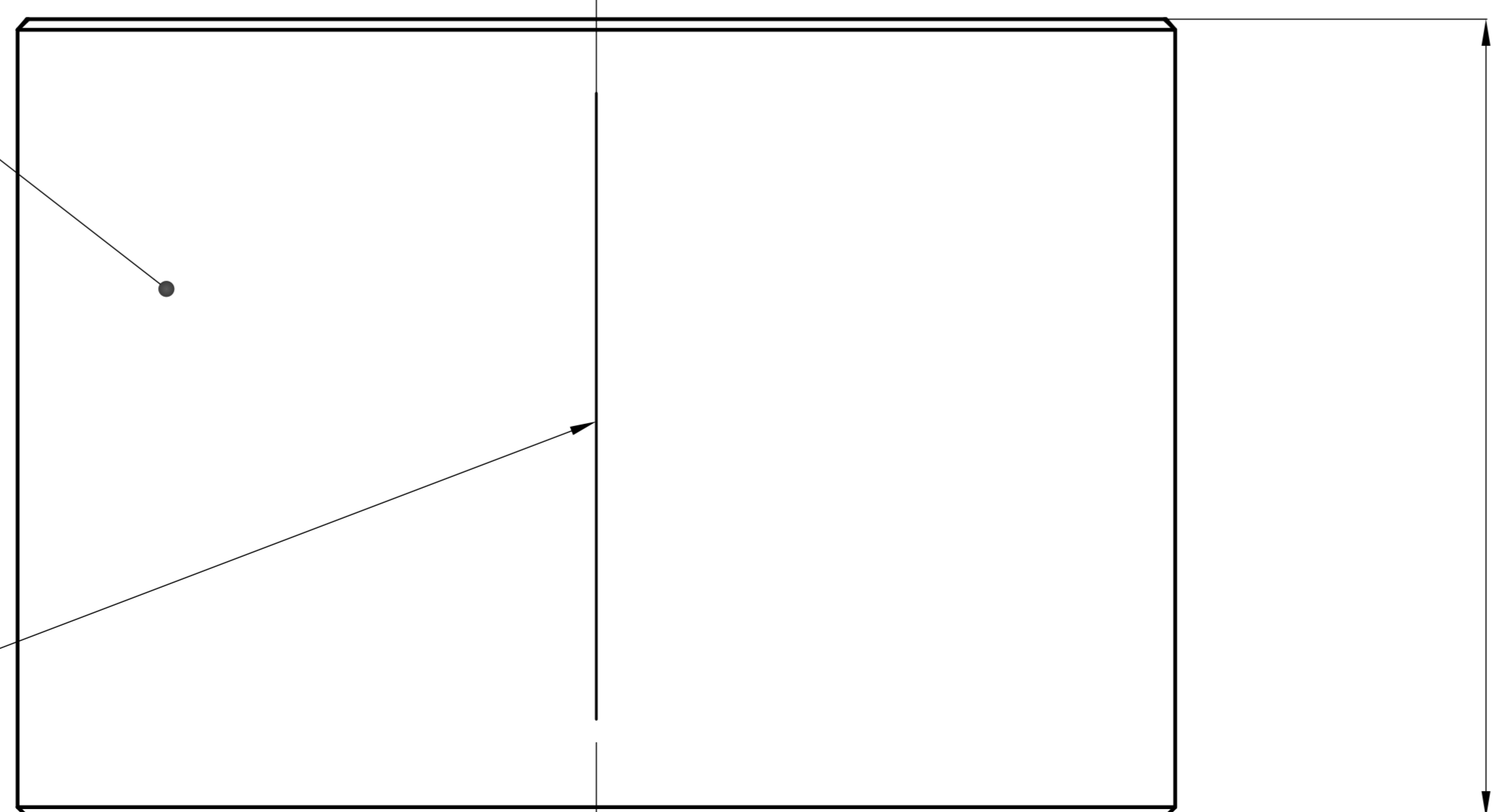
POLISH SURFACE 'S4' SEE NOTE 5
(REPEAT ON SURFACE 'S3')

ETCH OR GRIND LEGIBLE REFERENCE GROOVE
(0.25mm±0.05mm WIDE) ALONG CENER LINE,
PARALLEL TO THE CYLINDRICAL AXIS (DEFINED
BY DATUM FEATURE A) WITHIN ±0.1mm.

2.0±0.2 X 45°±5° CHAMFER
ALL AROUND (BOTH SIDES)

150.0±0.5

BARREL (SIDE) AND BEVEL
POLISH (SEE NOTE 3)



BOTTOM VIEW

0.200° ± 000.2°
WEDGE ANGLE

ETCH OR GRIND LEGIBLE REFERENCE GROOVE
(0.25mm±0.05mm WIDE) ALONG CENTER LINE WITHIN
±1° CLOCKING ANGLE (WITH RESPECT TO DATAUM
FEATURE A), PARALLEL TO THE CYLINDRICAL AXIS
(DEFINED BY DATUM FEATURE A) WITHIN ±0.1mm.

NOTES

- DO NOT SCALE FROM DRAWING
- INTERPRET DRAWING AS PER ANSI Y14.5M 1994
- BARREL SIDE AND BEVEL POLISH PER DOC. PROVIDED
- FINISH SURFACES 'S1' AND 'S2' AS PER DOC. PROVIDED
- FINISH SURFACES 'S3' AND 'S4' AS PER DOC. PROVIDED
- REFER TO DOC. PROVIDED FOR SERIAL NUMBER
- COATING INFORMATION IS TO BE DETERMINED
- DIMENSIONS ARE IN MILLIMETERS (mm)

	INSTITUTE FOR COSMIC RAY RESEARCH UNIVERSITY OF TOKYO	
	SYSTEM: LCGT	
	SUB-SYSTEM: MIRROR	
MATERIAL: SAPPHIRE	PART NAME: TEST MASS SUBSTRATE	
DRAWN: E. HIROSE NOV 29, 2011	DWG NO.: MIR-D00001	REV: v2
	PAPER SIZE: A0	SCALE: 1:1
	PROJECTION:	SHEET: 1/1