

Dwg. No.

Y.5279

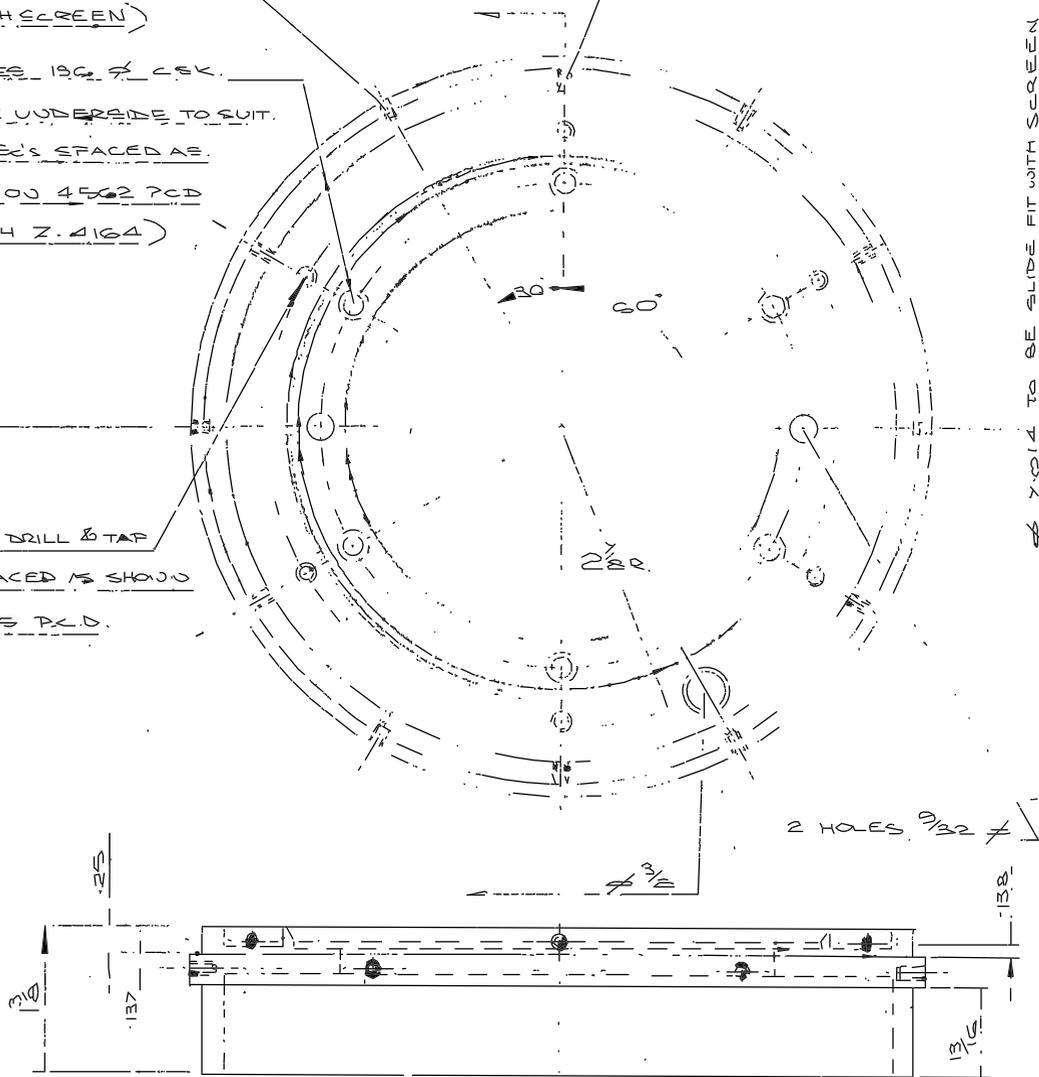
6 HOLES DRILL & TAP 6 BA.
SPACED AT 60° AS SHOWN
(TO MATCH SCREEN)

8 HOLES DRILL & TAP 6 BA.
SPACED AS SHOWN AT 60°
(TO MATCH SCREEN)

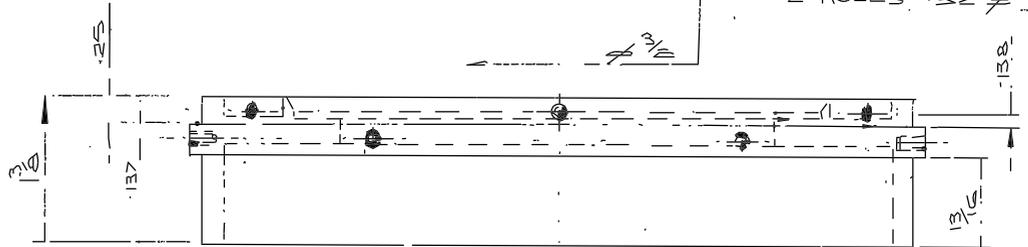
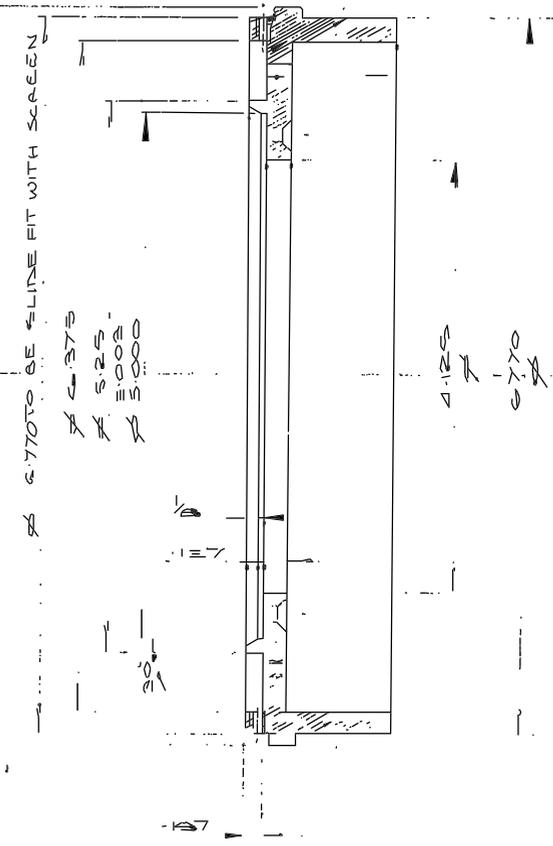
8 HOLES 1/32" ϕ C&K
ON THE UNDERSIDE TO SUIT.
2 BA SC'S SPACED AS
SHOWN ON 4.562 P.C.D.
(TO MATCH Z. 4164)

6 HOLES DRILL & TAP
2 BA, SPACED AS SHOWN
ON 5.625 P.C.D.

2 HOLES 9/32" ϕ

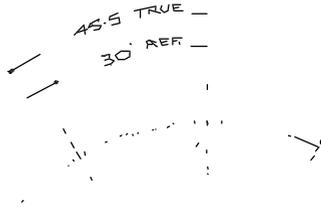


ϕ 7.014 TO BE SLIDE FIT WITH SCREEN



				Tols. (unless otherwise stated.)	Material BRASS		
				Decimals: $\pm .005$	Finish	Drg. No.	No. Req.
				Fractions: $\pm \frac{1}{64}$		Used	885195
Dimns. in ins.		Scale: 1:1		THIRD ANGLE PROJECTION.			
Royal Greenwich Observatory, Herstmonceux Castle, Hailsham Sussex.				Title Mk II SOLAR FLANGE RING.		Drawing No. Y.5279	

1/2-23 TRUE
120° REF



15

φ 10

20 SWG

45.5 TRUE
30 REF

31.1 TRUE
60 REF

φ 17.4



4
15.7

3.5

317

6 HOLES 3.1 φ SPACED AS SHOWN
C.S.K. FOR 6 DIA. S.C.'S.

3 HOLES 1.57 φ SPACED
AS SHOWN.

NOTE

TUBE TO BE SEAM WELDED USING A MUMETAL FILLER ROD

SCAP VIEW

				TOLS. UNLESS OTHERWISE STATED	MATERIAL		
				FRACTIONS: 2/3	20 SWG MU'ETEL		
ISSUE	MOD. No	DATE	DRAWN BY	DECIMALS: 1/3	FINISH	DRG No.	No. REQ.
		16.7.71	E.V.		CLEAN		USED ON
DIMNS. IN A.K				SCALE: 1:1	THIRD ANGLE PROJECTION		
ROYAL GREENWICH OBSERVATORY, HERSINGOUEUX CASTLE, HAILSHAM, SUSSEX.					TITLE		DRAWING No.
					MUMETAL SCREEN (INNER)		X. 3959

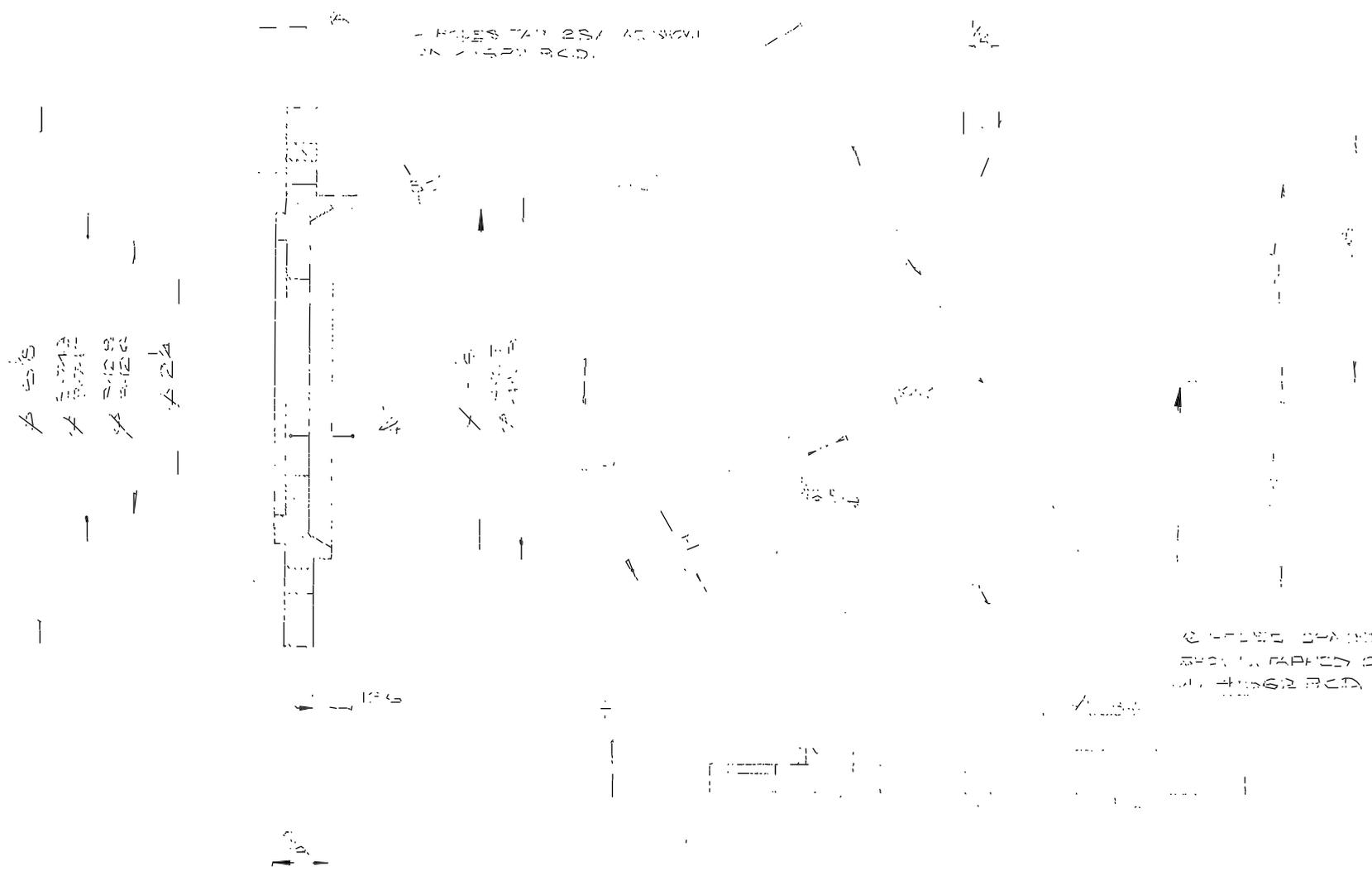
Org. No.

Y. 4156

5. HOLES $\frac{1}{2}$ " DIA SPACED AS SHOWN
ON ENDED BOLD. CENTER ON
UNDERLINED BY SET 2 SA. SKETCHED BY [unclear]

6. HOLES 7/16" DIA. AS SHOWN
ON ENDED BOLD.

7. HOLES SPACED AS
SHOWN ON ENDED BOLD.
ON UNDER BOLD.



				Tols. (unless otherwise stated.)	Material HR30 WP ALUMINUM		
				Decimals: 1/1000	Finish	Drg. No.	No. Req.
				Fractions: 1/16	BLK. ANGLE	Used on	
Dimns. in ins.	Scale: 1:1			THIRD ANGLE PROJECTION.			
Royal Greenwich Observatory, Herstmonceux Castle, Hailsham	Sussex.			Title	Rail Mounting.	Drawing No. Y. 4156	

Dwg. No.

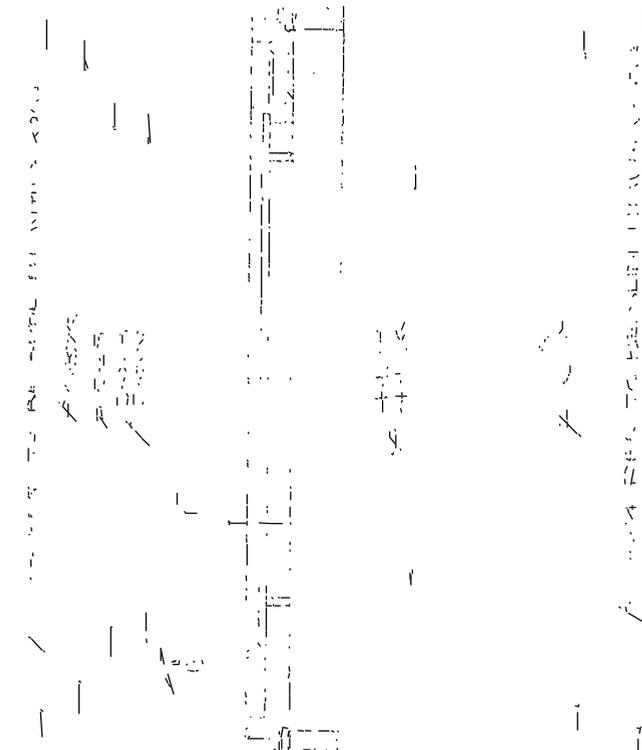
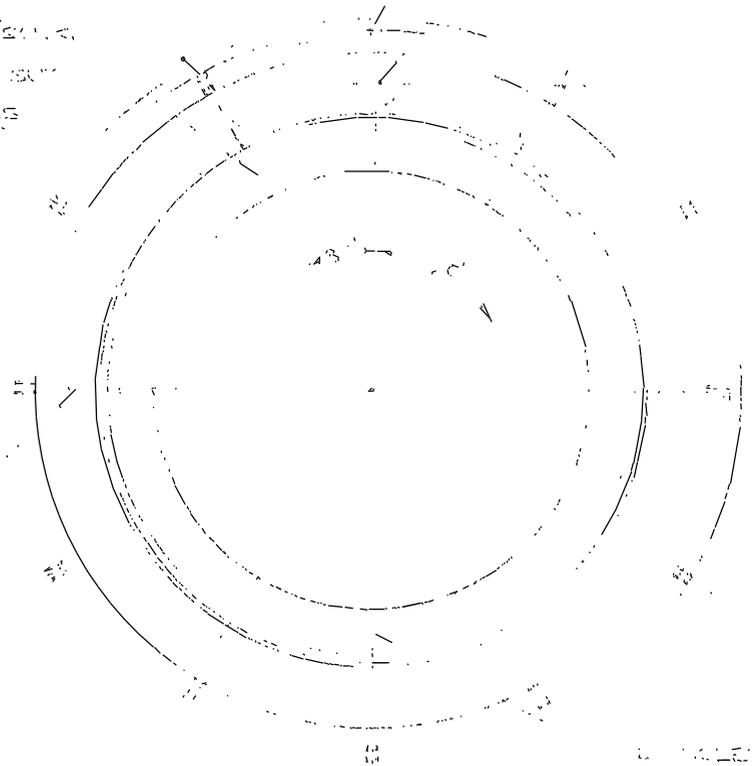
Y.415B

8 HOLES DRILL 2" DIA 6 3/4"
SPACED AS SHOWN AT 80°
(SEE MARK X. 3215B)

8 HOLES DRILL 2" DIA 6 3/4"
SPACED AS SHOWN AT 80°
(SEE MARK X. 3215B)

8 HOLES DRILL 2" DIA 6 3/4"
ON THE SURFACE TO BE
2 BY 2 SPACED AS
SHOWN ON THE 2 BY 2
TO MATCH Y.415A

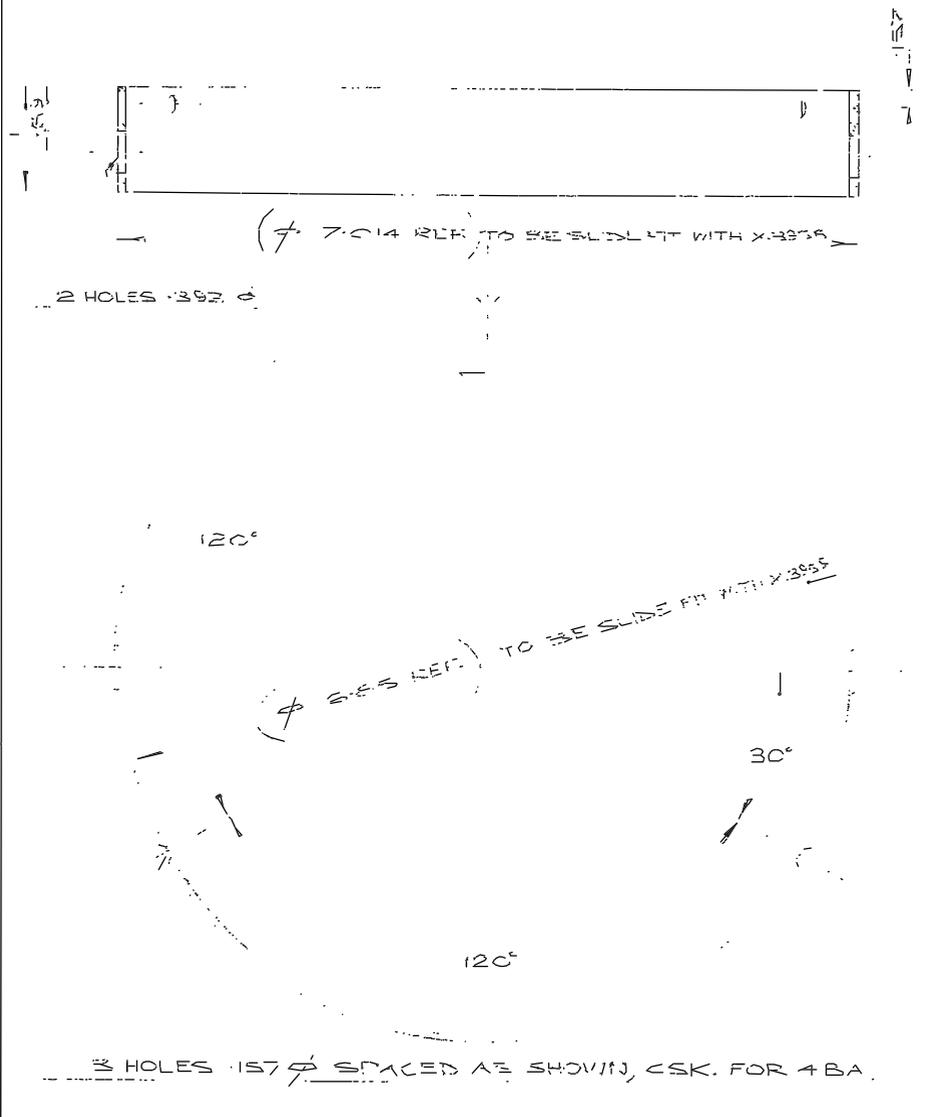
8 HOLES DRILL 2" DIA
ON THE SURFACE AS SHOWN
ON THE 2 BY 2 P.C.D.



1:1

				Tols. (unless otherwise stated)		Material BRASS			
				Decimals: 1/100		Finish CLEAN		1	
				Fractions: 1/64				Drg. No. No. Req.	
Issue Mod. No. Date Drawn by								Used on	
Dimns. in ins. Scale: 1:1				THIRD ANGLE PROJECTION.					
Royal Greenwich Observatory, Herstmonaux Castle, Hailsham Sussex.				Title		Y.415B		Drawing No. Y.415B	

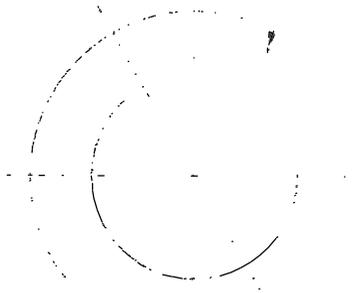
Drq. No.
Z. 4159



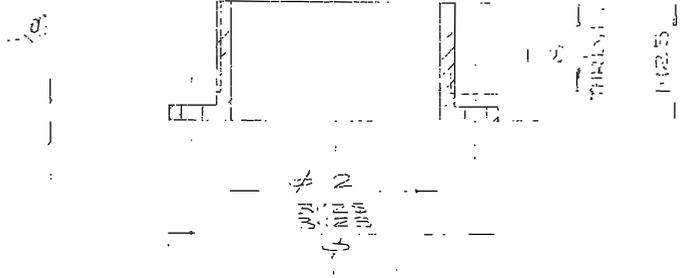
				Tols. (unless otherwise stated)		Material				
				Diameters ± .005		BRASS				
				Fractions ± 1/64		Finish		Drq. No. No. Req.		
Issue	Mod./a	Date	Drawn by			CLEAN		Used on		
Dimns. in Ins. (Notes 1:1)				THIRD ANGLE PROJECTION						
Royal Greenwich Observatory Herstmonceux Castle, Hailsham, Sussex.				Title <u>SPACING RING</u>				Drawing No. Z. 4159		

Drwg. 11a.
Z. 4160

6 HOLES 1/32" ϕ
SPACED AT 60°
ON 1/2" DIA. ROD.

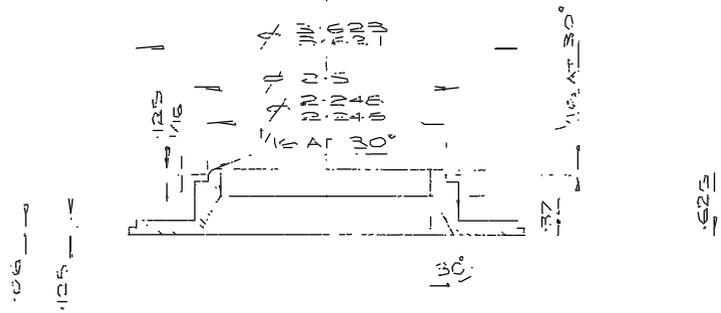


ROD DIA. 1/2".



				tol.s. (unless otherwise stated)	Material ALUMINIUM ALLOY HE 30 WP		
		4-11-71	C.V. EST.	Decimals $\pm .005$	Finish	Drwg. No.	110. Reg.
Issue	Ad. No.	Date	Drawn by	Fractions $\pm 1/64$	BLK ANODISE	Lead on	
Dimns. in Ins.		Scale: 1:1		THIRD ANGLE PROJECTION			
Royal Greenwich Observatory, Horsmanoeux Castle, Hailsham, Sussex.				Title <u>LENS FOCUSING TUBE</u>		Drawing No. Z. 4160	

Dwg. No.
Z. 4161



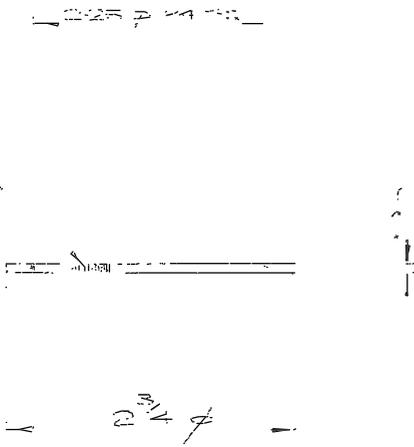
φ 2.00

φ 1.740

				Tols. (unless otherwise stated)	Material BRASS		
		28-10-71	C.WEST	Flatness ± .005"	Finish CLEAN	1	
Drawn	Mod. No.	Date	Drawn by	Threads ± 1/64		Dwg. No.	No. Req.
						Used on	
Dims. in In.		Scale: 1:1		THIRD ANGLE PROJECTION			
Royal Greenwich Observatory Fortismouth Castle, Hailsham, Sussex.				Title <u>INNER COOLING FLANGE.</u>	Drawing No. Z. 4161		

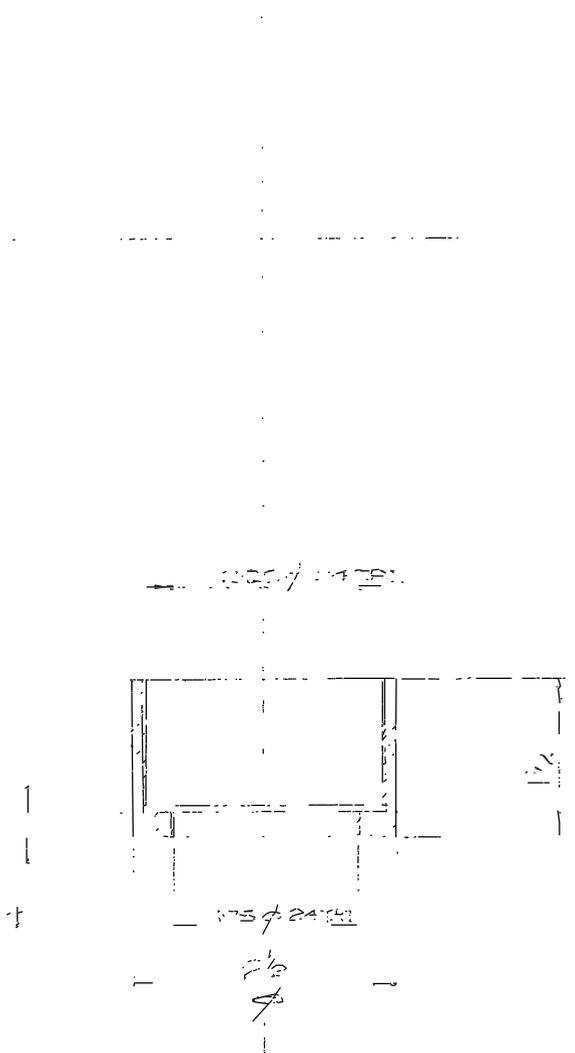
Drq. No.
Z.4162

STRAIT KURL



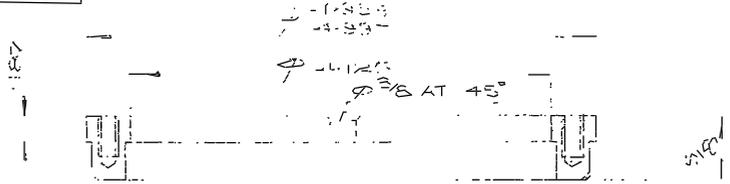
				Units (unless otherwise stated)	Material ALUMINIUM ALLOY HR 30 WR		
		5/1/71	C. WEST	Decimals ± 0.05	Finish	Drq. No.	No. Req.
Issue	Date	Date	Drawn by	Fractions $\pm 1/64$	BLK. ANODISE	Used on	
Dimts. in Ins.	Scale: 1:1	THIRD ANGLE PROJECTION					
Royal Greenwich Observatory, Herstmonceux Castle, Hailsham, Sussex.		Title	LOCKING RING		Drawing No.	Z.4162	

Drq. No.
Z. 4193

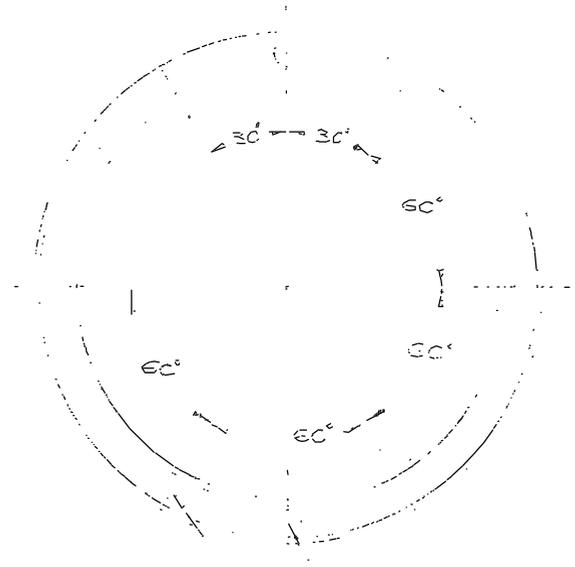


				Tols. (unless otherwise stated)	Material ALUMINIUM ALLOY HR 30.WP		1
			C.W	Decimal ± 0.05	Finish	Drq. No. / Rev.	
Issue	Ed. No.	Date	Drawn by	Fractions $\pm 1/32$	BLK. ANODISE	Used on	
Dimos. in Ins.		Scales 1:1		7HPD ANGLE PROJECTION			
Royal Greenwich Observatory Horsmondeux Castle, Hailsham, Sussex.			Title	LENS MOUNT		Drawing No. 7,4193	

Dwg. No.
Z. 4164



4 1/4 REE DIM. TO BE A SLIDE FIT WITH TUBE
 4 1/8 REE DIM. TO BE A SLIDE FIT WITH TUBE



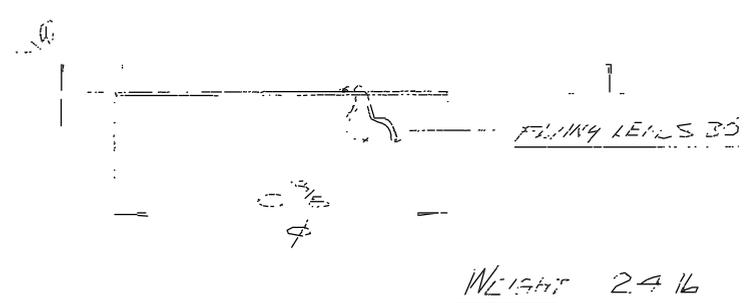
1. HOLES DRILL & TAP 2 BA
 ON 4.562 P.C.D.
 ON UNDERSIDE
 (NOT TO BREAK THROUGH)

2. HOLES ϕ .25
 SPACED AS SHOWN ON
 4.562 P.C.D.

				Dim. unless otherwise stated	Material		
				D decimals: $\pm .005$	BRASS		
				Fractions: $\pm 1/64$	Finish	Dwg. No.	No. Req.
28-1071	C.W.				CLEAN	Used on X.5080	
Dimns. in In.	Scale	1:1		THIRD ANGLE PROJECTION			
Royal Greenwich Observatory Horsham, Sussex.				Title	Drawing No.		
				WATER JACKET FINE	Z. 4164		

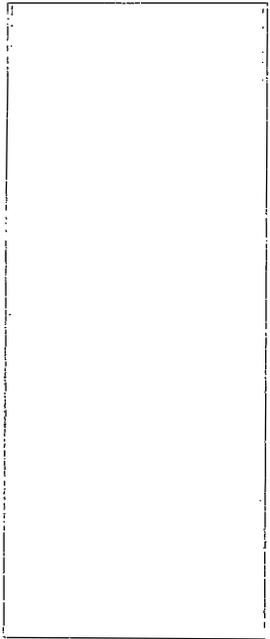
Drq. No.
Z. 4165

Z. 4165
Z. 4165



				Dpls. (unless otherwise stated)		Material	
				Decimals: _____		Finish	
				Fractions: _____		Drq. No. 110. Veq.	
Issue	Mod. No.	Date	Drn. by	Used on			
Dimns. in In.		Scale: 1/2		THIRD ANGLE PROJECTION			
Royal Greenwich Observatory Herstmonceux Castle, Halham, Sussex.				Title IMAGE TUBE LENS		Drawing No. Z. 4165	

Org. No.
Z. 4156



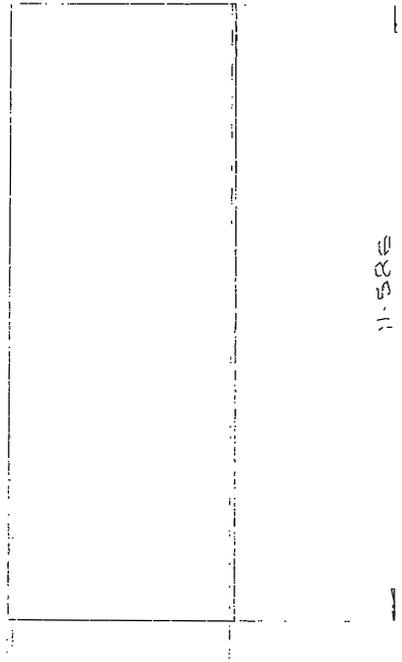
12.02.56

4 1/2

5

				Fals. (unless otherwise stated)	Material BRASS TUBE		1
		8.2.74	E.W.	Decimals: ± 0.005	Finish CLEAN	Org. No.	No. Req.
Is. No.	Ord. No.	Date	Drawn by	Fractions: $\pm 1/64$		Used on	
Dim. in Ins.		Scale: 1/2		THIRD ANGLE PROJECTION			
Royal Greenwich Observatory Herstmonceux Castle, Bailsham, Sussex.				Title COOLING TUBE (OUTER)		Drawing No. Z.4156	

Org. No.
Z. 4167



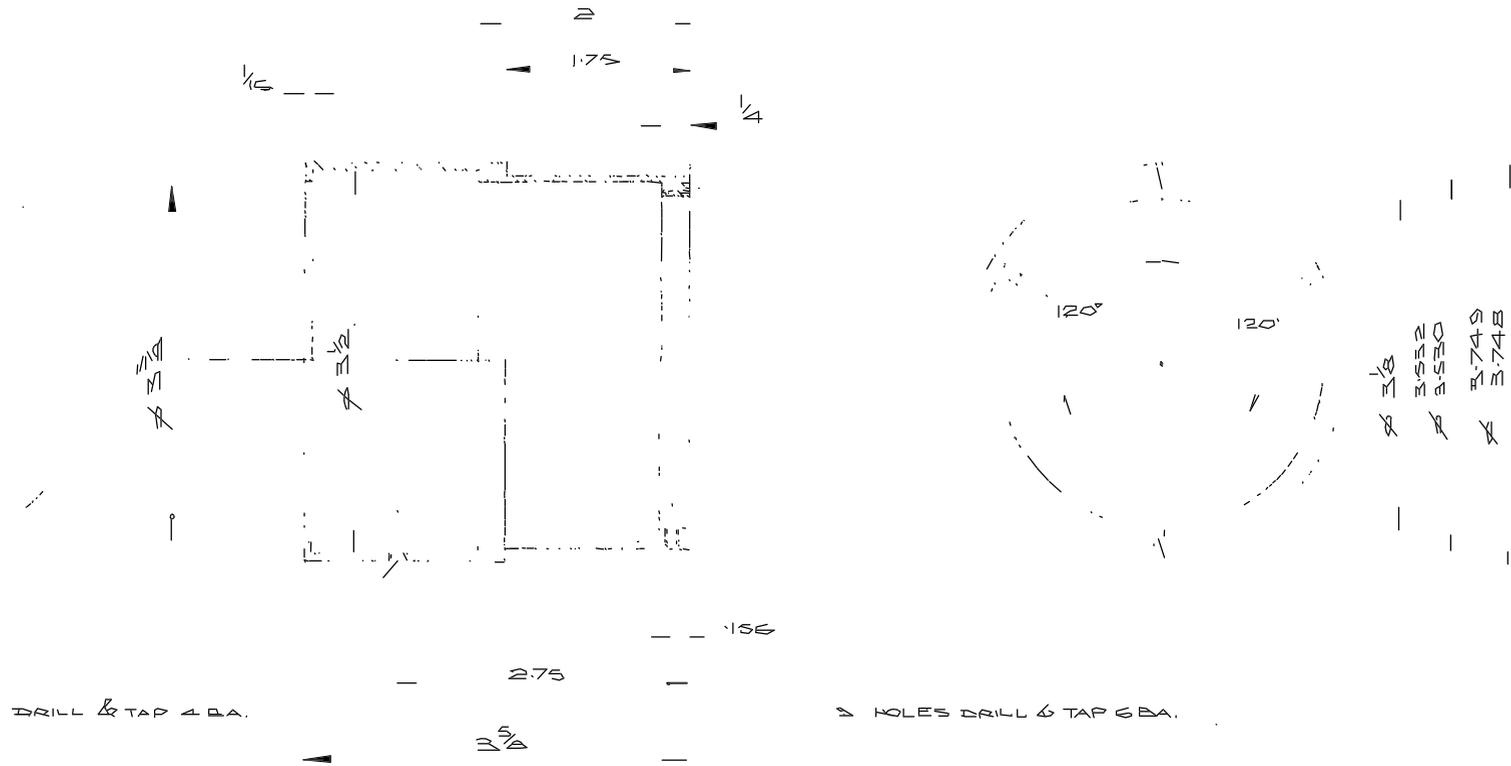
1 1/8 ϕ
1 1/4 ϕ

				Tols. unless otherwise stated		Material				
				Decimals: ± 0.005		BRASS TUBE				
				Fractions: $\pm 1/64$		Finish		Org. No. Ho. Pg.		
Issue	Mod. No.	Date	Drawn by			CLEAN		Used on		
Dimns. in ins.			Scale 1/2			THIRD ANGLE PROJECTION				
Royal Greenwich Observatory Horshamstead Castle, Hailsham, Sussex.				Title COOLING TUBE (INNER)				Drawing No. Z. 4167		

Dwg. No.

Y.4168

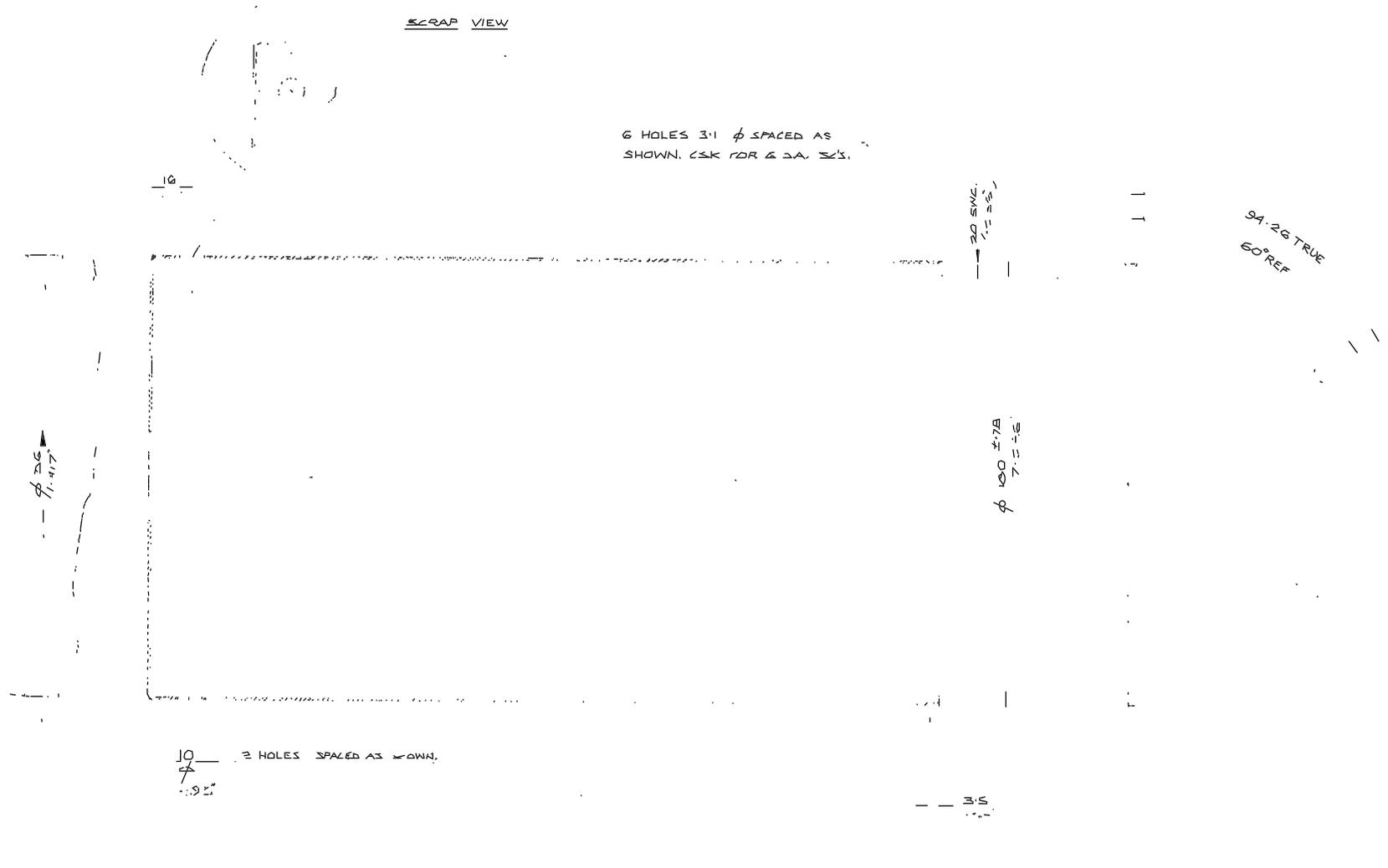
3 HOLES DRILL & TAP 8 BA.
SPACED AS SHOWN ON 3.325 P.C.D.



				Tols. (unless otherwise Stated.)	Material		
					BRASS		
				Decimals: ± .005	Finish	Drg. No.	No. Req.
Issue	Mod. No.	Date	Drawn by	Fractions: ± 1/64	ELK. Ni. ?	Used on	
Dimns. in ins.				Scale: 1:1	THIRD ANGLE PROJECTION.		
Royal Greenwich Observatory, Hersham, Sussex.				Title	TUBE.		Drawing No. Y.4168

SCRAP VIEW

6 HOLES 3/4" ϕ SPACED AS SHOWN. CSK FOR 6 D.A. S.S.



9A. 2G TRUE
60° REF

ϕ 26
11.417

20 SWG.
11.417

ϕ 10 \pm 1/8
7.125

10" 2 HOLES SPACED AS SHOWN.
1.92"

3/5"

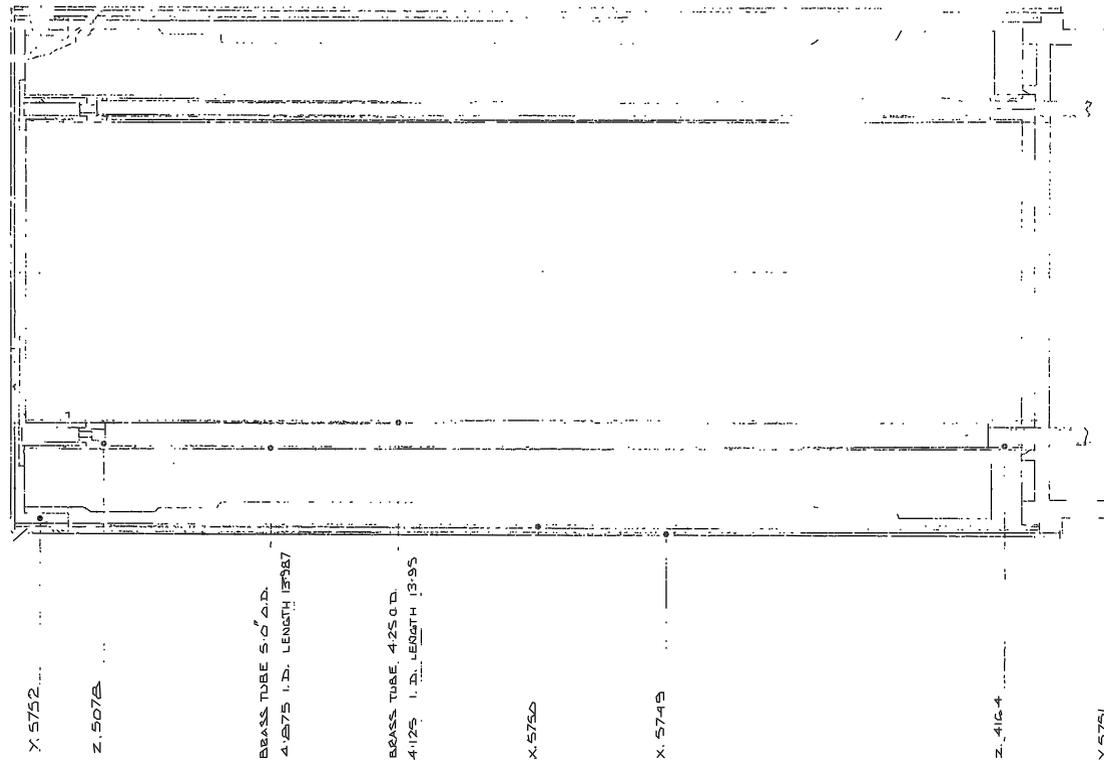
32C
12.735"

NOTE

1. TUBE TO BE SEAM WELDED USING A MUMETAL FILLER ROD.
2. END PLATE TO BE " " " " " "

				TOLS. (UNLESS OTHERWISE STATED)	MATERIAL		
					20 SWG, MUMETAL.		
ISSUE	MOD. No.	DATE	DRAWN BY	FRACTIONS:	FINISH	DRG. No.	No. REQ.
		15/6/71	S.M.	DECIMALS: \pm 1/32	CLEAN		
DIMNS. IN INCH				SCALE: 1" = 1"	THIRD ANGLE PROJECTION		
ROYAL GREENWICH OBSERVATORY, HERSTMONCEUX CASTLE, HAILSHAM, SUSSEX.				TITLE	MUMETAL SCREEN (OUTER)		DRAWING No. X. 3958

DRG. No.
X.5748



3 SHIMS .07" THICK SPACED AT 120°
MOUNTED TO UNDER SCREEN.

COPPER TUBE 1/4" O.D. 20 SWG.

See Mk II See X.5080

N.B. EACH SOLENOID ASSEMBLY
REQUIRES ONE OF
INTERFACE X.5081.

TOLS. (UNLESS OTHERWISE STATED)		MATERIAL			
L-3-76		WEST			
ISSUE MOD.No.	DATE	DRAWN BY	FRACTIONS: DECIMALS:	FINISH	DRG.No. No.REQ. USED ON
DIMNS. IN INS. SCALE: 1:1			THIRD ANGLE PROJECTION		
ROYAL GREENWICH OBSERVATORY HERSTMONLEUX CASTLE HAILSHAM, SUSSEX.			TITLE SOLENOID Mk. IIA		DRAWING No. X.5748

HOLE A = 30 MM OR 50 MM.

6 HOLES 2.1 ϕ SPACES AS SHOWN. DRG. FOR 6 BA 5 1/2.

HOLE "A"



20 SWG.

1/36 1/8
1/36 1/2

3426 REV.

60 REF.

372

"NOTE"

TUBE TO BE SEAM WELDED USING MUMETAL FILLER ROD.
END PLATE " " " " " "
REMOVE INTERNAL SURPLUS WELD SO THAT FINISHED SCREEN
WILL ACCEPT 7/64 ϕ ALONG ITS ENTIRE BORE.

2	16172	E. WEST	TOLS. (UNLESS OTHERWISE STATED)	MATERIAL		
1	16172	E. WEST	FRACTIONS:	20 SWG MUMETAL.	DRG. No.	No. REQ.
ISSUE	MOD. No.	DATE	DRAWN BY	DECIMALS: $\pm .125$	FINISH	USED ON X.5749
					CLEAN.	
DIMNS. IN M.M.			SCALE: 1:1	THIRD ANGLE PROJECTION		
ROYAL GREENWICH OBSERVATORY, HERSTMONCEUX CASTLE, HAILSHAM, SUSSEX.			TITLE			DRAWING No.
			EQUINOXIAL MK. 2.			X.5749
			MUMETAL SCREEN (OUTER).			

DRG. No.

X.5750



3 HOLES 4" SPACED,
AS SHOWN

6 HOLES 3.1" SPACED AS SHOWN.
CHK. FOR 6 BA SC'S.

NOTE TUBE TO BE SEAM WELDED
USING A MUMETAL FILLER ROD.
REMOVE SURPLUS WELD FROM
INSIDE OF SCREEN, SUCH THAT IT WILL
ACCEPT A ± 0.77 ALONG ITS ENTIRE
LENGTH.

				TOLS. (UNLESS OTHERWISE STATED)	MATERIAL		
				FRACTIONS:	20SWG. MUMETAL.		
				DECIMALS: ± 0.125	FINISH	DRG. No.	No. REQ.
ISSUE	MOD. No.	DATE	DRAWN BY	CLEAN.		USED ON X.5748	
DIMNS. IN M.M. SCALE: 1:1				THIRD ANGLE PROJECTION			
ROYAL GREENWICH OBSERVATORY, HERSTMONCEUX CASTLE, HAILSHAM, SUSSEX.				TITLE		DRAWING No.	
				S. PLENNING N.Y. 2. MUMETAL SCREEN (INNER)		X.5750	

Drg. No.

Y.5751

6 HOLES DRILL & TAP 6 BA.
SPACED AS SHOWN AT 60°
(TO MATCH SCREEN)

6 HOLES 1/16" ϕ C.S.K.
ON THE UNDERSIDE TO SUIT.
2 BA. SCS SPACED AS
SHOWN ON 4.562 P.C.D.
(TO MATCH Z. 4164)

6 HOLES DRILL & TAP
2 EA. SPACED AS SHOWN
ON 5.625 P.C.D.

3 HOLES TAP 4 BA.
SPACED AT 120° ON 5.625 P.C.D.

2 HOLES ϕ 1/22

2 HOLES DRILL & TAP 6 BA.
SPACED AT 60° AS SHOWN
(TO MATCH SCREEN)

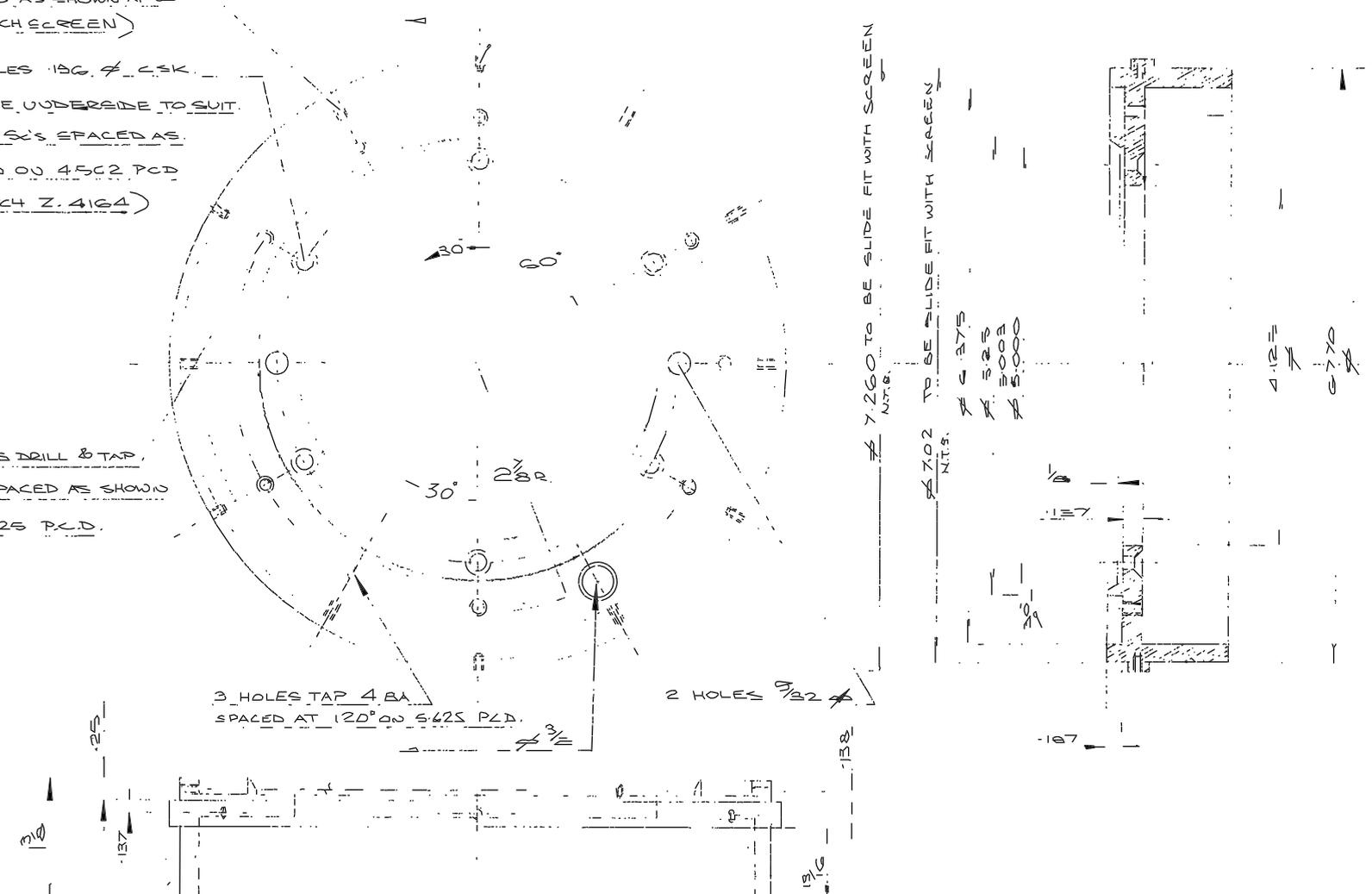
~~7.260~~ TO BE SLIDE FIT WITH SCREEN
N.T.S.

~~7.02~~ TO BE SLIDE FIT WITH SCREEN
N.T.S.

~~4.375~~
~~5.25~~
~~5.000~~
~~5.000~~

~~4.125~~

~~6.70~~



				Tols. (unless otherwise stated.)	Material BRASS		
				Decimals: $\pm .005$	Finish	Drg. No.	No. Req.
				Fractions: $\frac{1}{16}$		Used on X.5747	
Dimns. in ins.		Scale: 1:1		THIRD ANGLE PROJECTION.			
Royal Greenwich Observatory, Hersimonceux Casile, Hailsham				Title FLANGE RING.		Drawing No. Y.5751	

