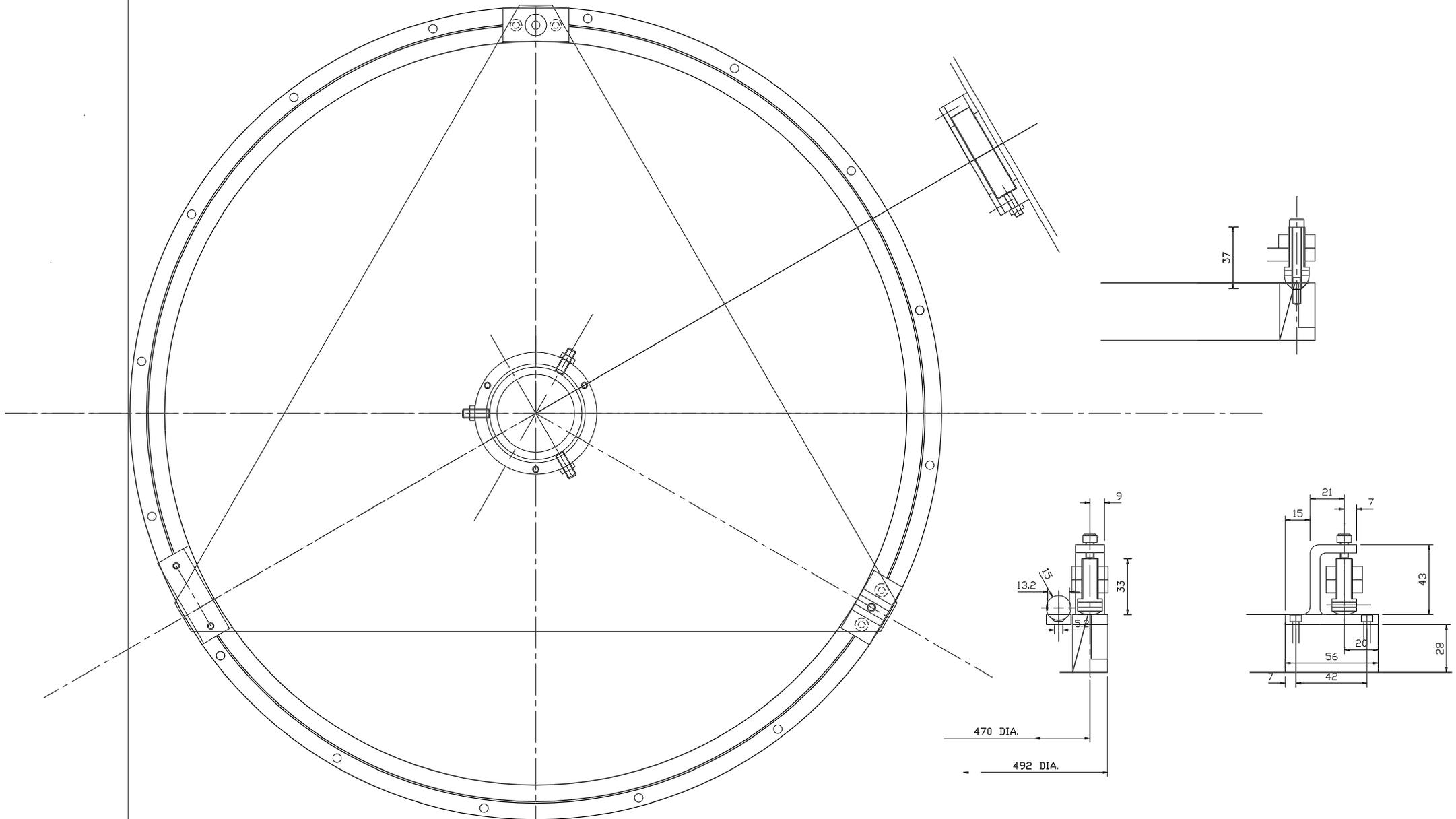


Drawing No.  
W

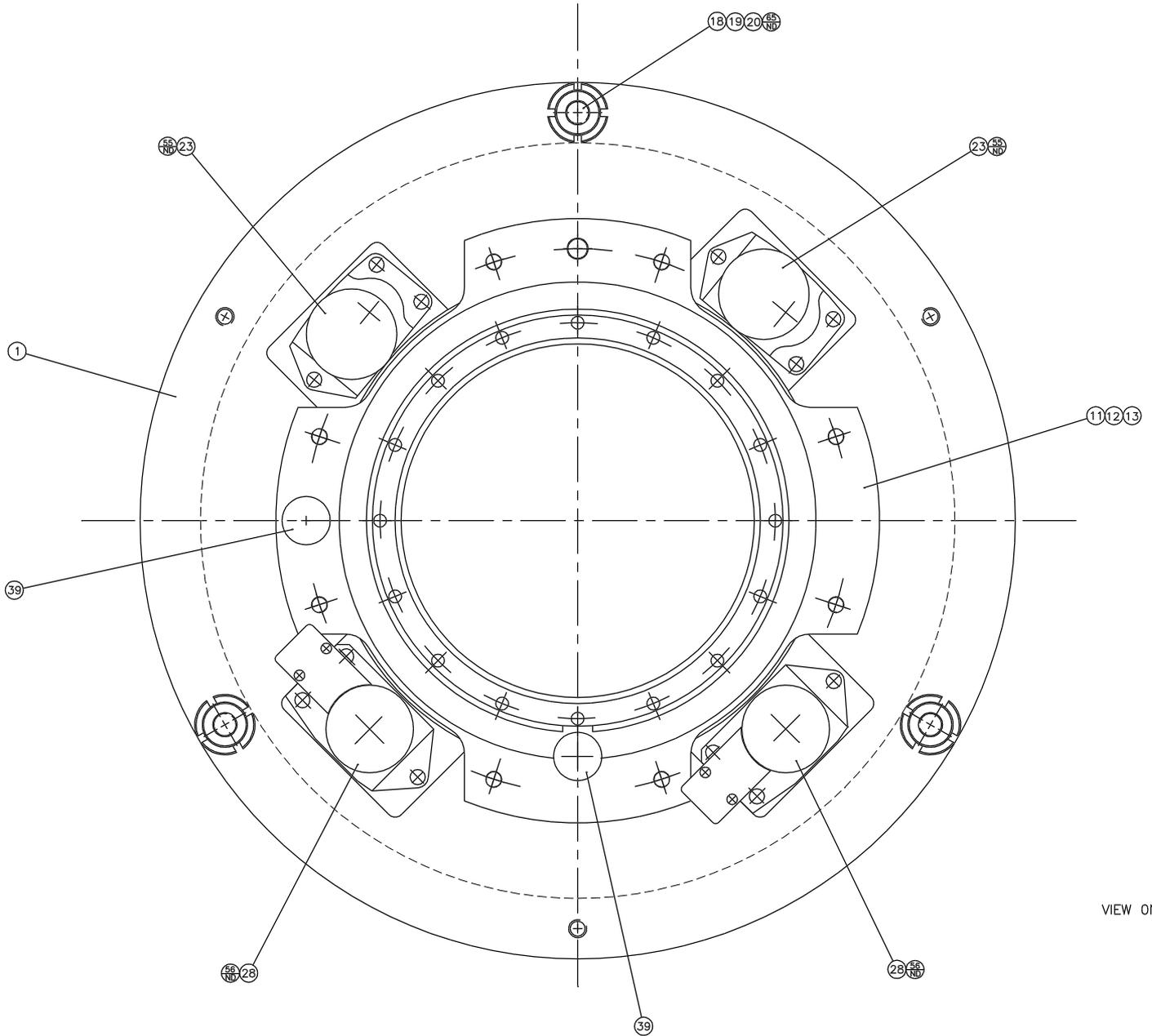


Tolerance (Unless otherwise stated)								Material		Dimns.in m.m.		Scale		THIRD ANGLE PROJECTION		GA No.	
														Title		Drawing No.	
														WHT PRIME FOCUS ADC		W / BF / 109	
														ALIGNMENT TARGET ASSEMBLY			
Issue	Mod.No	Date	Drawn by	Issue	Mod.No	Date	Drawn by	Finish		Drg.No.	No.Req.	ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD CAMBRIDGE CB3 0EZ					
										Used on							

DRAWING NUMBER	NO. OF SHEETS	GA ITEM NO.	DRAWING TITLE OR COMPONENT NAME	NO. OFF	MATERIAL STOCK OR ORDER No. AND DATE	REMARKS	ISSUE DATE	ISSUED TO	FINISH DATE	
W / BF / 086		36	SPACER WASHER	8						
W / BF / 087		37	COVER PLATE -ENCODER GEARBOX	2						
W / BF / 088		38	C-SPANNER - TILT ADJUSTER	2						
W / BF / 089		39	DESSICATOR ASSEMBLY TYPE B	2						
W / BF / 090		40	DESSICATOR ASSEMBLY TYPE A	1						
W / BF / 091		41	DESSICATOR BODY 'A'	1						
W / BF / 092		42	DESSICATOR BODY 'B'	2						
W / BF / 093		43	COVER 'A'	1						
W / BF / 094		44	COVER 'B'	2						
W / BF / 095A		45	FILTER 'A'	1						
W / BF / 095B		45	FILTER 'B'	2						
W / BF / 096			ALIGNMENT EQUIPMENT - OUTER CELL	1						
W / BF / 097			ALIGNMENT EQUIPMENT - INNER CELL	1						
W / BF / 098			ALIGNMENT EQUIPMENT - MENISCUS	1						
W / BF / 099			ALIGNMENT EQUIPMENT - REAR ELEMENT	1						
W / BF / 300		46	SWITCH COVER	2						
W / BF / 301		47	SHAFT	2						
W / BF / 302A		48A	SWITCH CAM	2						
W / BF / 302B		48B	SWITCH CAM	2						
W / BF / 303		49	SWITCH MOUNTING PLATE	2						
W / BF / 304		50	SENSOR CAM	2						
W / BF / 305		51	SENSOR MOUNTING BRACKET	2						
/ /										
/ /										
/ /		54	SENSOR M5-NPN	2	RS 633-458					
/ /		55	STEPPER MOTOR	2	VRDM 568LNA	BERGER-LAHR				
/ /		56	ENCODER ABSOLUTE OPTICAL	2	ROC 410(5VOLT)	HEIDENHAIN				
/ /		57	BEARING - EXTRA SLIM	2	KC180 ARO TYPE A	KAYDON				
/ /		58	BEARING - EXTRA SLIM	2	KC160 ARO TYPE A	KAYDON				
/ /		59	BEARING	8	688-2Z	INA				
/ /		60	BEARING	8	MR126-2Z	INA				
/ /		61	SPUR GEAR	8	G 0.8-36 (EN32)	HPC				
/ /		62								
/ /		63	ENCODER FIXING CLAMPS	8	200-032-01	HEIDENHAIN				
/ /		64	LIMIT SWITCH	4	RS 320-528					
/ /										
/ /										
/ /										
JOB TITLE	WHT PRIME FOCUS ADC/CORRECTOR ASSEMBLY					ASS'Y DRG No. V/BF/050	SHEET No. 2OF3	DRAWN BY DATE DEC.1992		
ROYAL GREENWICH OBSERVATORY, MADINGLEY ROAD, CAMBRIDGE										

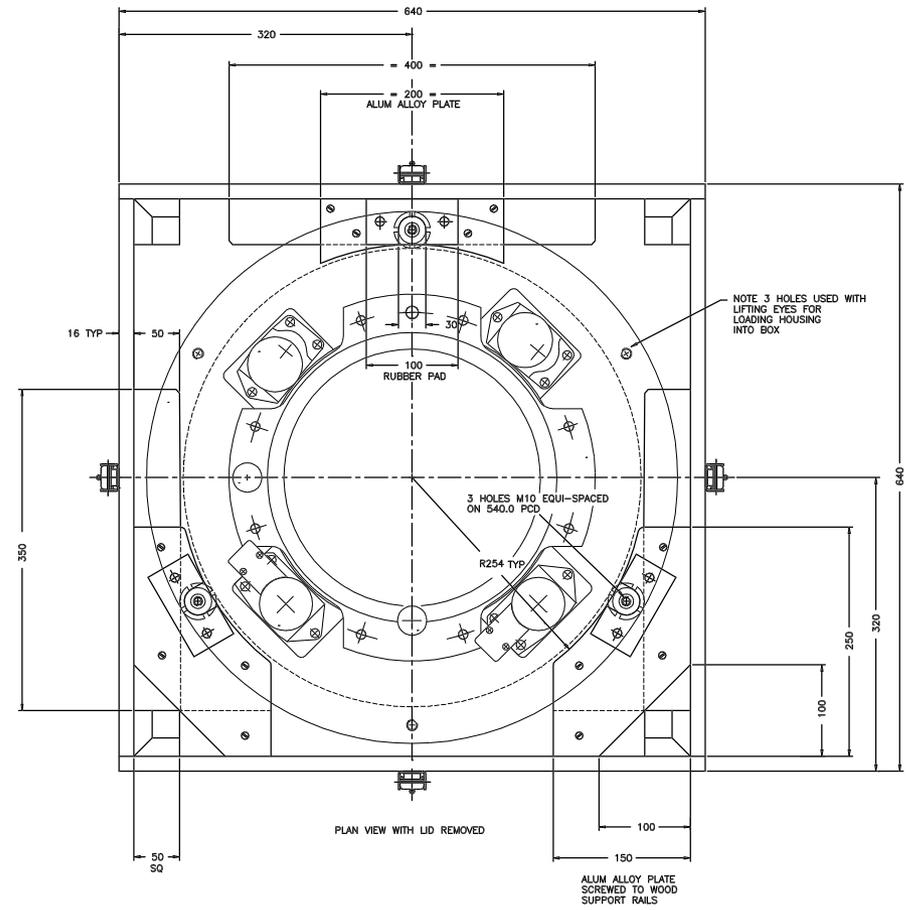
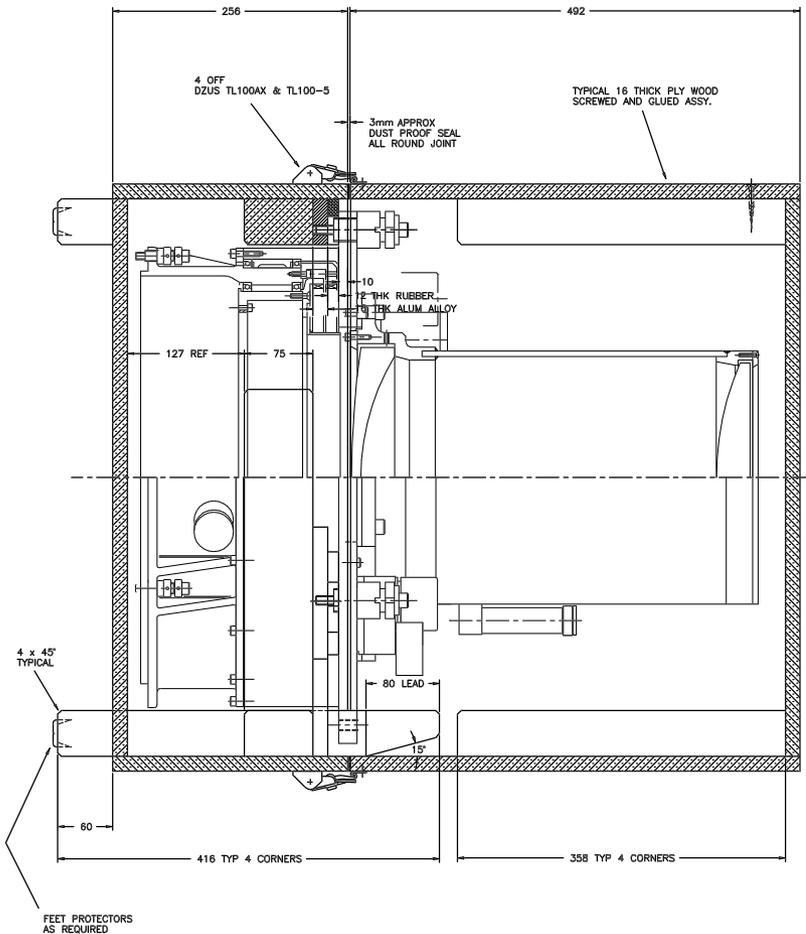






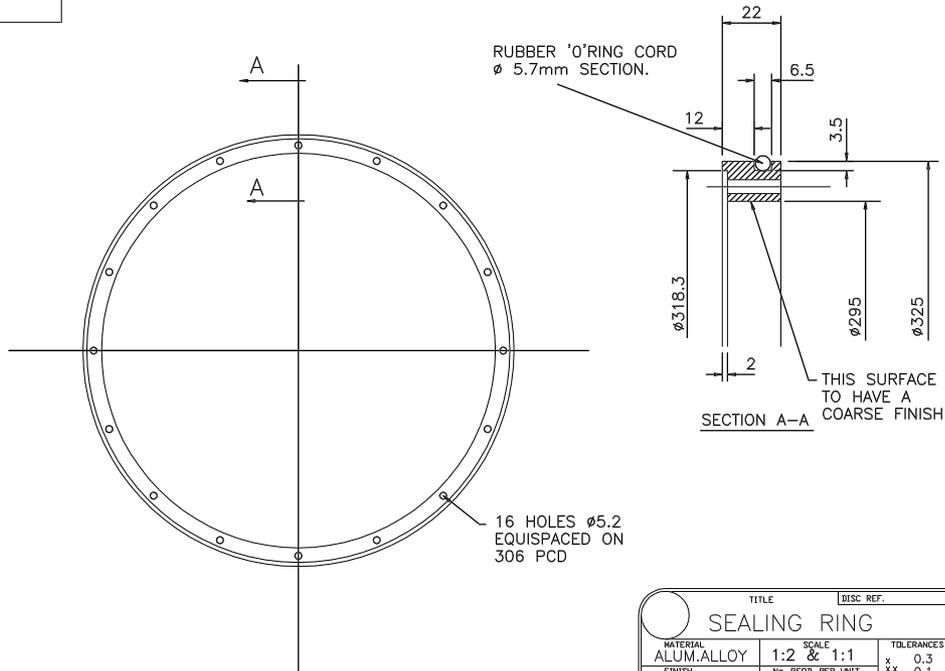
VIEW ON ARROW "X" (SHT.1)

				TOLERANCES (UNLESS OTHERWISE STATED)				MATERIAL		DIM IN MM		SCALE 1:1		THIRD ANGLE PROJECTION		G.A. NO. SHT 2 OF 2	
				X. +/-				FINISH		DRG NO. NO REQ		ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD CAMBRIDGE CB3 0EZ		TITLE 4.2m.WHT.TELESCOPE-PRIME FOCUS- ADC/CORRECTOR ASSY.		DRG NO.	
ISSUE MOD. NO. DATE DRAWN BY				APRIL 93 PROMECH						USED ON						V/BF/050	



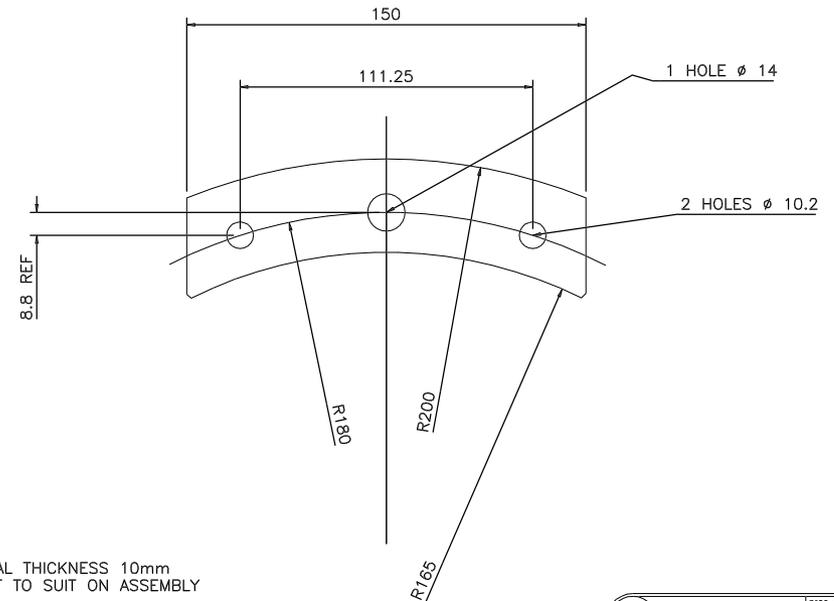
NOTE GENERAL CONSTRUCTION OF PLYWOOD PANELS WITH HARD WOOD RAILS FINISH TO RCO SPEC.

								TOLERANCES (UNLESS OTHERWISE STATED)		MATERIAL		DM IN MM	SCALE 1/2	THIRD ANGLE PROJECTION		G.A. NO.	SH1 1 OF 1
								X	+/-			ROYAL GREENWICH OBSERVATORY		TITLE			
								X.X	+/-			MADINGLEY ROAD		4.2 WHT		DRG NO.	
								X.XX	+/-			CAMBRIDGE CB3 0EZ		STORAGE BOX FOR ADC MAIN HOUSING		V/BF/291	
								ANG	+/-								
ISSUE	MOD. NO.	DATE	DRAWN BY	ISSUE	MOD. NO.	DATE	DRAWN BY	FINISH		DRG NO.	NO REQ						
						MAY 93	PROMECH			USED ON							



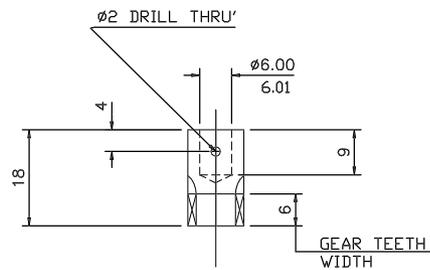
OCT'93 ITEM REDESIGNED

TITLE		DISC. REF.	
SEALING RING			
MATERIAL	SCALE	TOLERANCES ±	
ALUM.ALLOY	1:2 & 1:1	x	0.3
FINISH	No. RECD. PER UNIT	xx	0.1
BLK. ANODISE	ONE	xxx	
GA. No.	DRAWING No.		
	RGD W/BF/064		



NOMINAL THICKNESS 10mm  
ADJUST TO SUIT ON ASSEMBLY

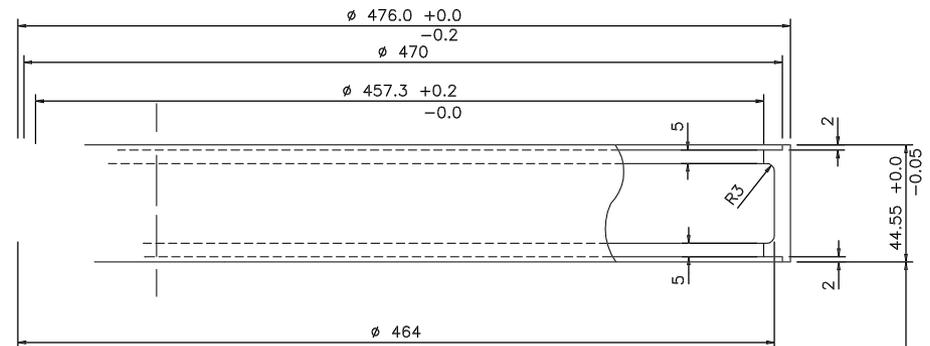
TITLE		DISC. REF.	
FIXED CELL SHIM			
MATERIAL	SCALE	TOLERANCES ±	
M.STEEL	1:1	x	0.5
FINISH	No. RECD. PER UNIT	xx	0.3
CLEAN	FOUR	xxx	0.1
GA. No.	DRAWING No.		
	RGD W/BF/065		



GEAR DETAILS:

PRESSURE ANGLE	20°
P.C.D.	8.8
MODULE	0.8
No. TEETH	10
O.DIA.	10.4

TITLE		DISC. REF.	
SPECIAL GEAR			
MATERIAL	SCALE	TOLERANCES ±	
STEEL EN24	2:1	x	0.3
FINISH	No. RECD. PER UNIT	xx	
CLEAN	FOUR	xxx	
GA. No.	DRAWING No.		
	RGD W/BF/072		

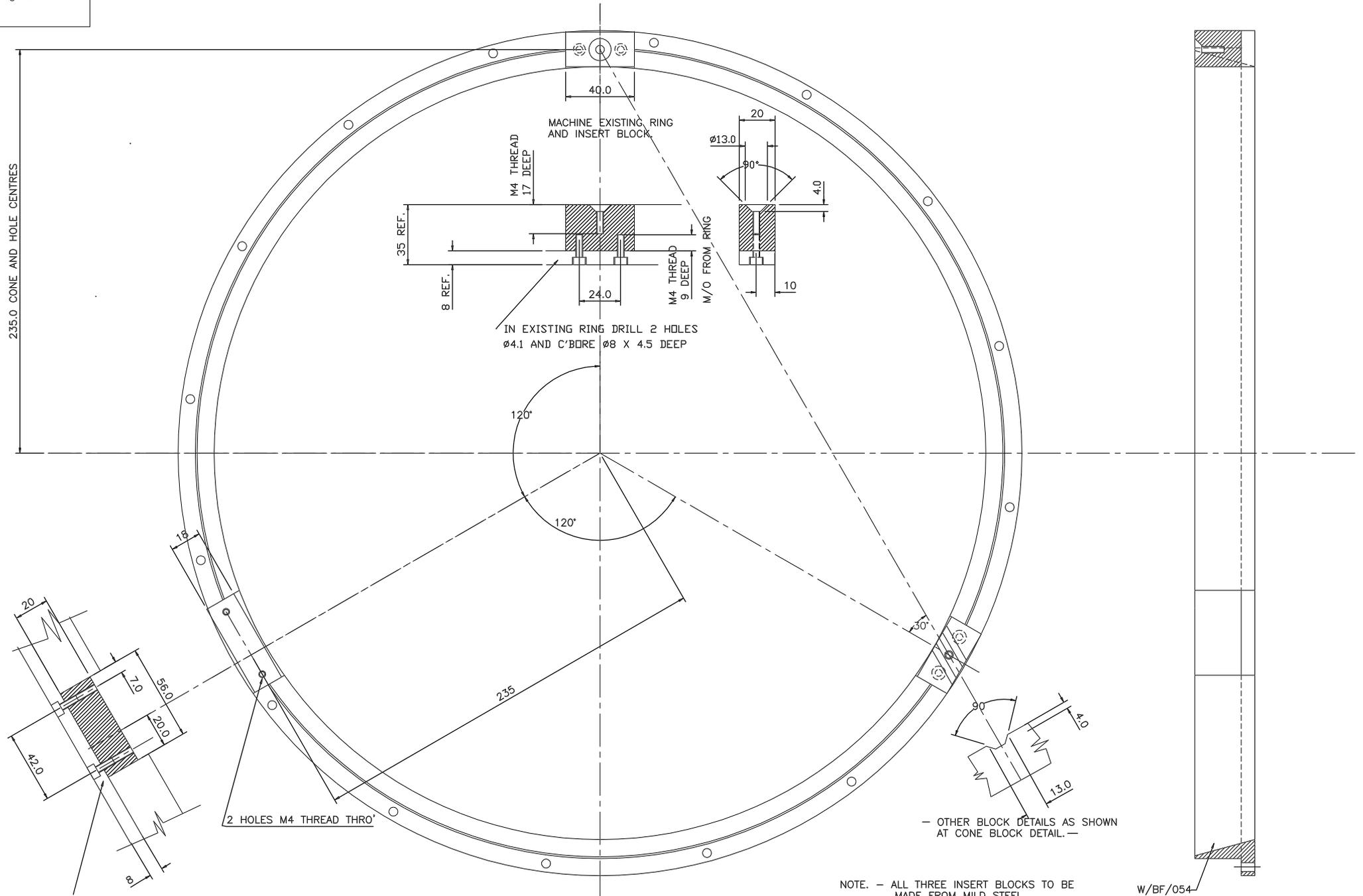


THICKNESS MAY REQUIRE  
ADJUSTMENT ON ASSY  
TO SUIT BEARINGS.

TITLE		DISC. REF.	
BEARING SPACER			
MATERIAL	SCALE	TOLERANCES ±	
M.STEEL	1:1	x	0.5
FINISH	No. RECD. PER UNIT	xx	0.3
CAD.PLATE	ONE	xxx	0.1
GA. No.	DRAWING No.		
	RGD W/BF/071		

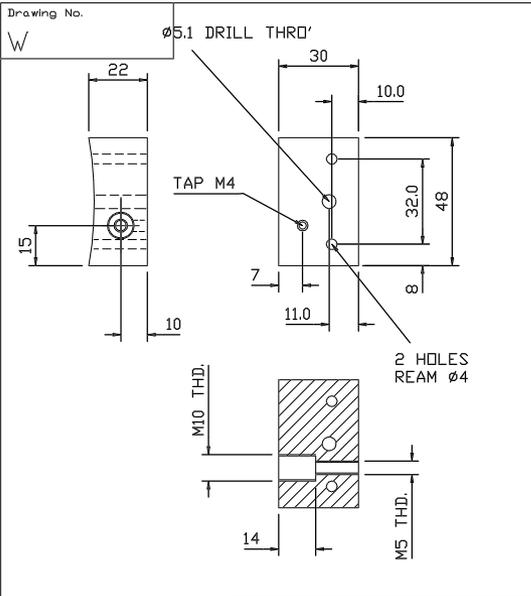
Tolerance (Unless otherwise stated)				Material		Dimns.in m.m.		Scale		THIRD ANGLE PROJECTION		GA. No.	
x	+/-									Title		Drawing No.	
xx	+/-			Finish		DRG.No.		No.Req.		ROYAL GREENWICH OBSERVATORY		WHT PRIME FOCUS CORRECTER	
xxx	+/-					Used on				MADINGLEY ROAD		BF 064/065	
ANG.	+/-									CAMBRIDGE CB3 0EZ		/071/072	
Issue	Mod.No.	Date	Drawn by	Issue	Mod.No.	Date	Drawn by						

235.0 CONE AND HOLE CENTRES

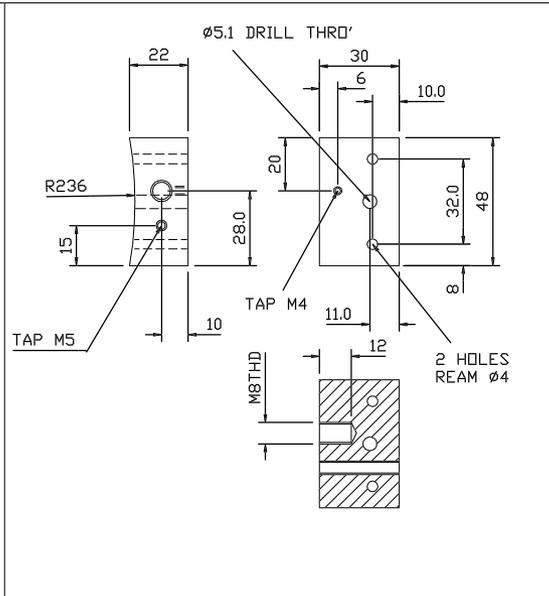


IN EXISTING RING DRILL 2 HOLES Ø4.1 AND C'BORE Ø8 X 4.5 DEEP

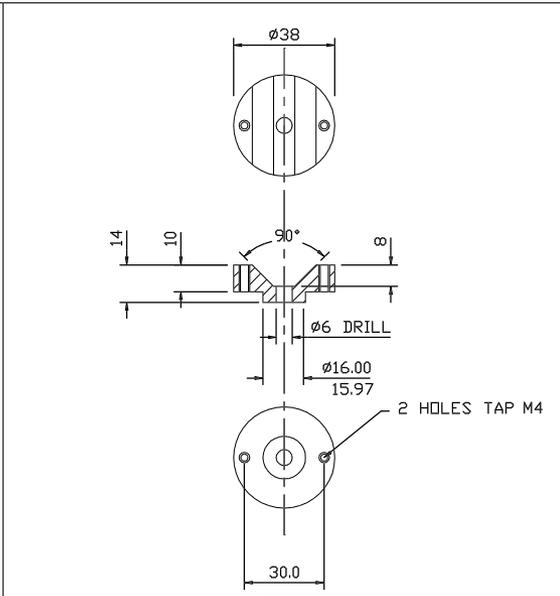
Issue	Mod.No	Date	Drawn by	Issue	Mod.No	Date	Drawn by	Tolerance (Unless otherwise stated)	Material	Finish	Dimns.in m.m.	Scale	Title	GA No.
								X +/-			ROYAL GREENWICH OBSERVATORY		THIRD ANGLE PROJECTION	
								XX +/-			MADINGLEY ROAD		MODIFICATION TO W/BF/054	GA No.
								XXX +/-			CAMBRIDGE CB3 0EZ		ADC OUTER CELL RETAINING RING.	W/BF/084
								ANG. +/-						



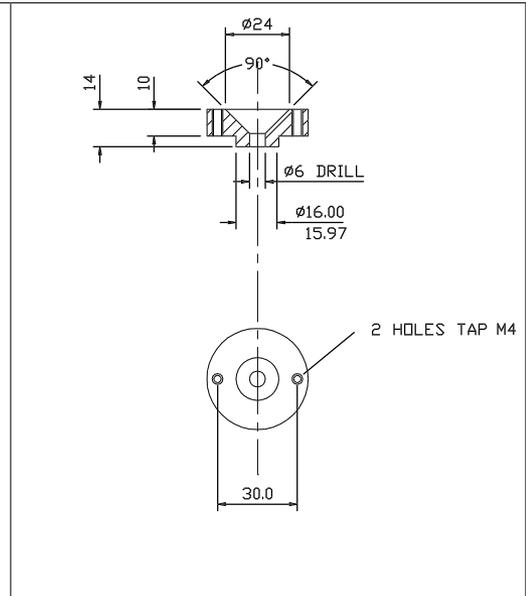
TITLE		DISC REF.	
MOUNTING BLOCK			
MATERIAL	SCALE	TOLERANCES ±	
ALUM.ALLOY	1 : 1	x	0.3
FINISH	No. RECD. PER UNIT	xx	0.1
BLACK ANODISE	TVD	xxx	
G.A. No.	DRAWING No.		
RGD	W/BF/101		



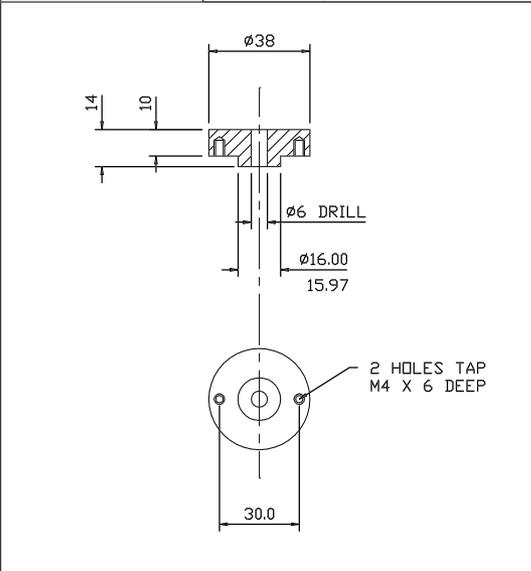
TITLE		DISC REF.	
MOUNTING BLOCK			
MATERIAL	SCALE	TOLERANCES ±	
ALUM.ALLOY	1 : 1	x	0.3
FINISH	No. RECD. PER UNIT	xx	0.1
BLACK ANODISE	DNE	xxx	
G.A. No.	DRAWING No.		
RGD	W/BF/102		



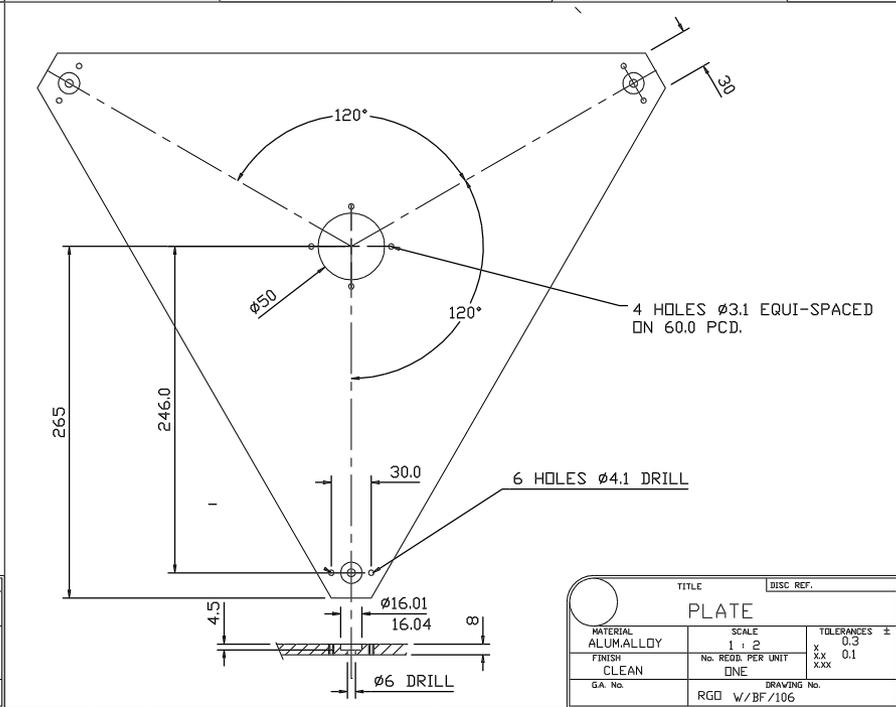
TITLE		DISC REF.	
VEE SEAT			
MATERIAL	SCALE	TOLERANCES ±	
ST.STL	1 : 1	x	0.3
FINISH	No. RECD. PER UNIT	xx	0.1
CLEAN	DNE	xxx	
G.A. No.	DRAWING No.		
RGD	W/BF/103		



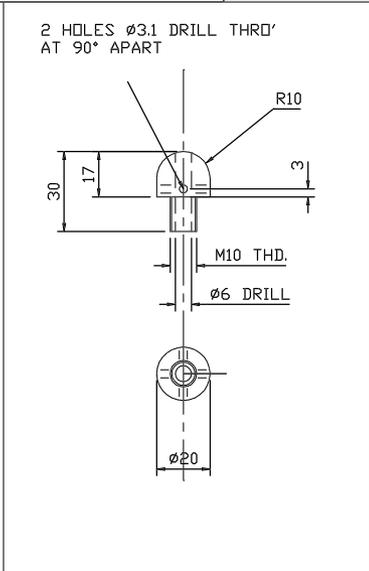
TITLE		DISC REF.	
CONE SEAT			
MATERIAL	SCALE	TOLERANCES ±	
ST.STL	1:1	x	0.3
FINISH	No. RECD. PER UNIT	xx	0.1
CLEAN	DNE	xxx	
G.A. No.	DRAWING No.		
RGD	W/BF/104		



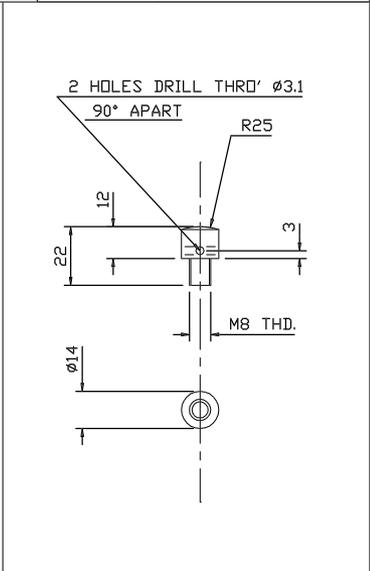
TITLE		DISC REF.	
FLAT SEAT			
MATERIAL	SCALE	TOLERANCES ±	
ST.STL.	1 : 1	x	0.3
FINISH	No. RECD. PER UNIT	xx	0.1
CLEAN	DNE	xxx	
G.A. No.	DRAWING No.		
RGD	W/BF/105		



TITLE		DISC REF.	
PLATE			
MATERIAL	SCALE	TOLERANCES ±	
ALUM.ALLOY	1 : 2	x	0.3
FINISH	No. RECD. PER UNIT	xx	0.1
CLEAN	DNE	xxx	
G.A. No.	DRAWING No.		
RGD	W/BF/106		

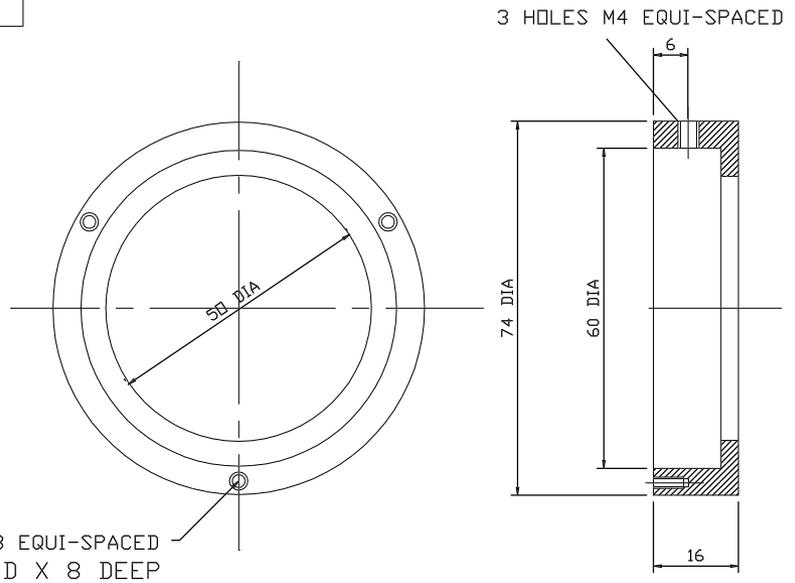


TITLE		DISC REF.	
LOCATOR			
MATERIAL	SCALE	TOLERANCES ±	
ST.STL	1 : 1	x	0.3
FINISH	No. RECD. PER UNIT	xx	0.1
CLEAN	TVD	xxx	
G.A. No.	DRAWING No.		
RGD	W/BF/107		

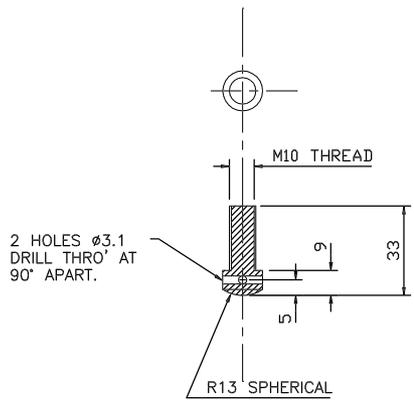


TITLE		DISC REF.	
DEFINER			
MATERIAL	SCALE	TOLERANCES ±	
ST.STL	1 : 1	x	0.3
FINISH	No. RECD. PER UNIT	xx	0.1
CLEAN	DNE	xxx	
G.A. No.	DRAWING No.		
RGD	W/BF/108		

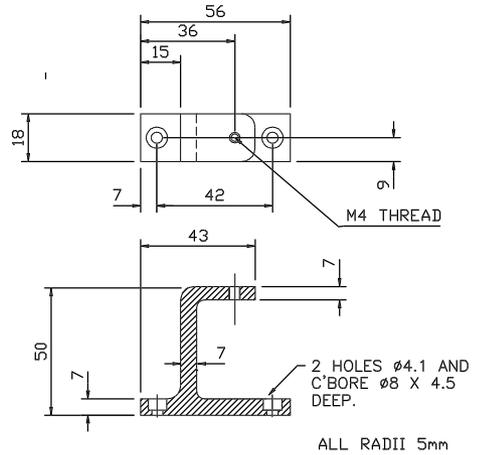
Drawing No.  
W



TITLE		DISC. REF.
TARGET HOLDER		
MATERIAL ALUM. ALLOY	SCALE 2 : 1	TOLERANCES ± x 0.3 XX 0.1 XXX
FINISH BLACK ANODISE	No. RECD. PER UNIT ONE	
GA. No.	DRAWING No. RGD W/BF/101	



TITLE		DISC. REF.
DEFINER		
MATERIAL ST. STL.	SCALE 1 : 1	TOLERANCES ± x 0.3 XX 0.1 XXX
FINISH CLEAN	No. RECD. PER UNIT ONE	
GA. No.	DRAWING No. RGD W/BF/102	



TITLE		DISC. REF.
CLAMP BRACKET		
MATERIAL STEEL	SCALE 1 : 1	TOLERANCES ± x 0.3 XX 0.1 XXX
FINISH MATT BLACK	No. RECD. PER UNIT ONE	
GA. No.	DRAWING No. RGD W/BF/103	

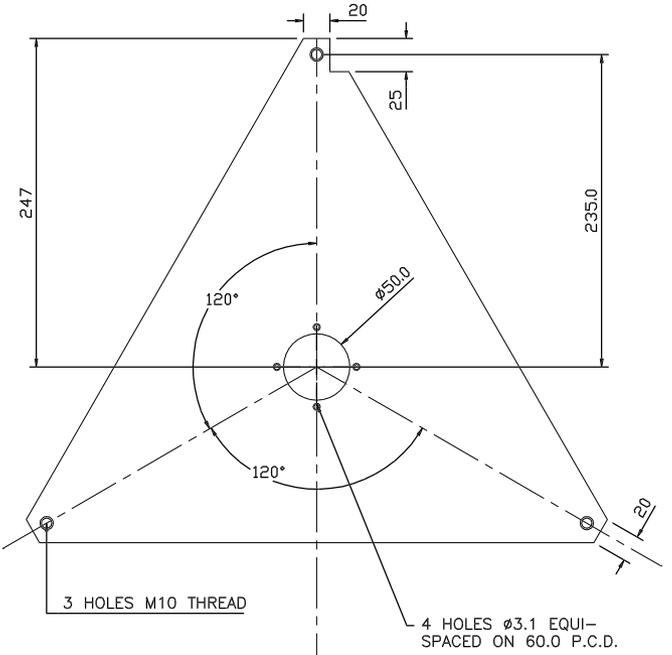
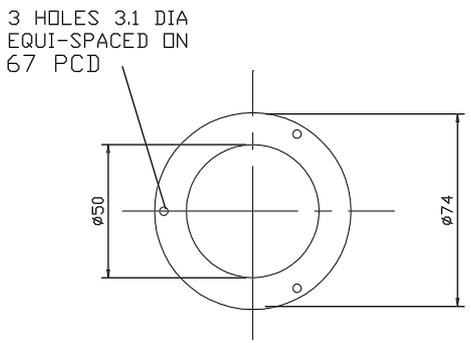


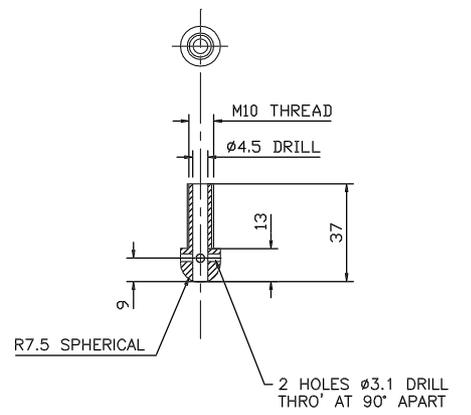
PLATE THICKNESS 6mm

TITLE		DISC. REF.
PLATE		
MATERIAL ALUM. ALLOY	SCALE 1 : 2	TOLERANCES ± x 0.3 XX 0.1 XXX
FINISH CLEAN	No. RECD. PER UNIT ONE	
GA. No.	DRAWING No. RGD W/BF/105	



MATL. ALUM ALLOY 3mm THICK

TITLE		DISC. REF.
RETAINER		
MATERIAL SEE NOTE	SCALE 1 : 1	TOLERANCES ± x 0.3 XX 0.1 XXX
FINISH BLACK ANODISE	No. RECD. PER UNIT ONE	
GA. No.	DRAWING No. RGD W/BF/105	



TITLE		DISC. REF.
LOCATOR		
MATERIAL ST STL	SCALE 1 : 1	TOLERANCES ± x 0.3 XX 0.1 XXX
FINISH CLEAN	No. RECD. PER UNIT TWO	
GA. No.	DRAWING No. RGD W/BF/104	

Issue	Mod.No	Date	Drawn by	Issue	Mod.No	Date	Drawn by

Tolerance (Unless otherwise stated)	Material
x +/-	
XX +/-	
XXX +/-	
ANG. +/-	

Dimns.in m.m.	Scale

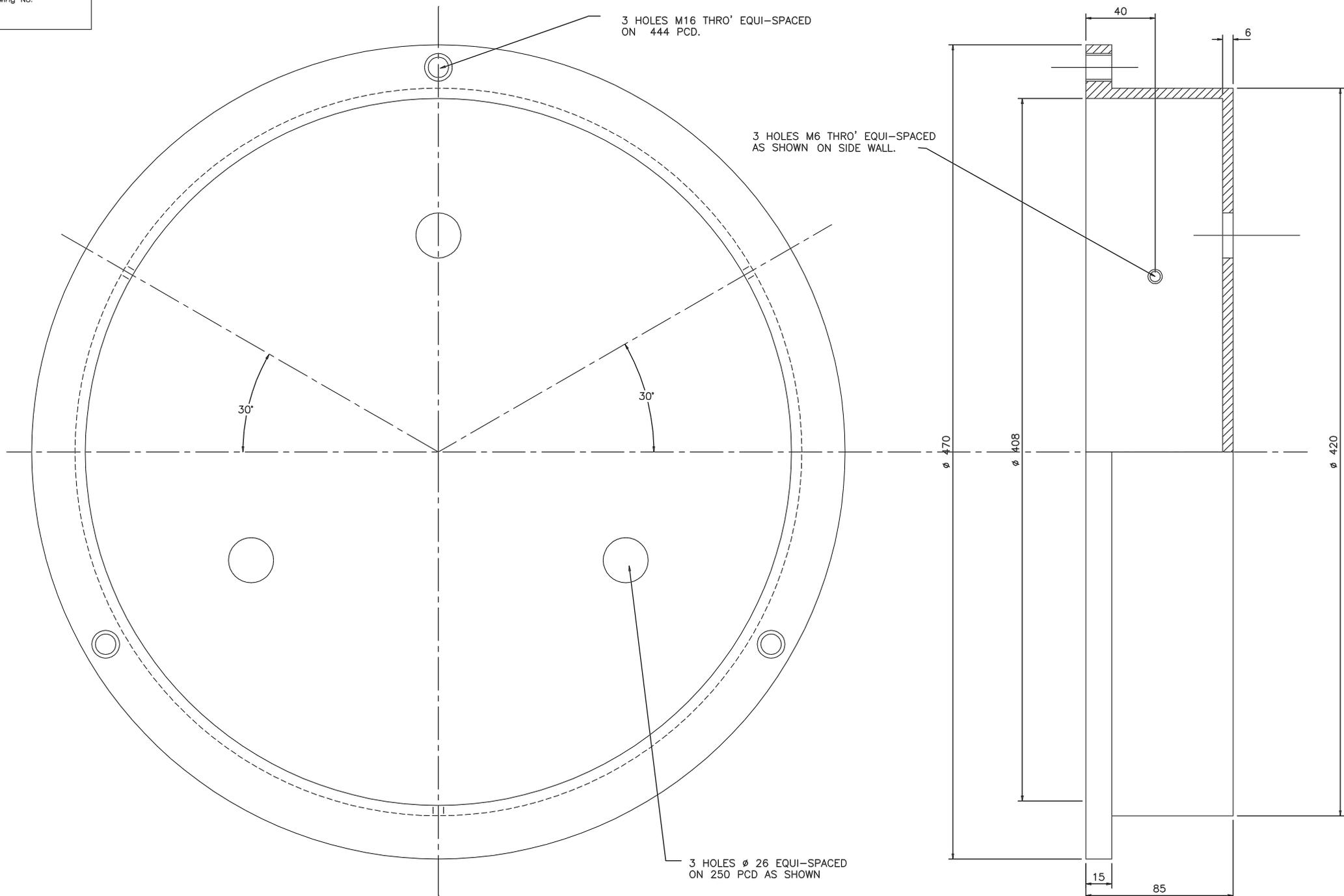
ROYAL GREENWICH OBSERVATORY  
MADINGLEY ROAD  
CAMBRIDGE CB3 0EZ

THIRD ANGLE PROJECTION

GA No.  
Drawing No.  
W/BF/101-106

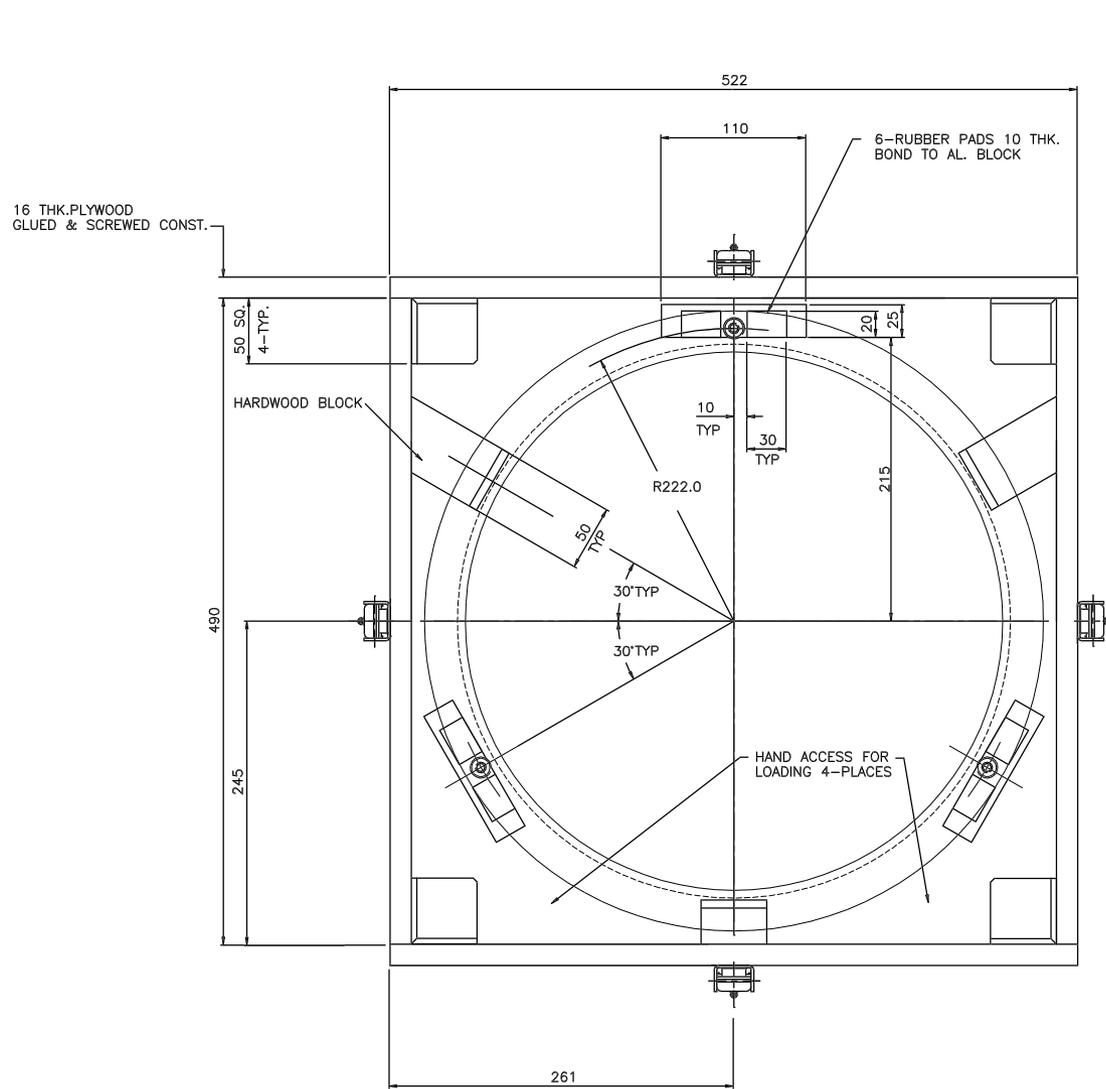
Title  
WHT PRIME FOCUS ADC  
ALIGNMENT TARGET DETAILS

DRAWING NUMBER	NO. OF SHEETS	GA ITEM NO.	DRAWING TITLE OR COMPONENT NAME	NO. OFF	MATERIAL STOCK OR ORDER No. AND DATE	REMARKS	ISSUE DATE	ISSUED TO	FINISH DATE
V/BF /050	2		GENERAL ARRANGEMENT						
V/BF /051	1	1	MAIN MOUNTING FLANGE	1					
V/BF /052	1	2	OUTER ROTATING SLEEVE -ADC	1					
V/BF /053	1	3	OUTER CELL -ADC	1					
W/BF /054	1	4	OUTER RETAINING RING -ADC	1					
W/BF /055	1	5	OUTER DRIVE GEAR RING -ADC	1					
W/BF /056	1	6	INNER ROTATING SLEEVE -ADC	1					
W/BF /057	1	7	INNER CELL -ADC	1					
W/BF /058		8	INNER RETAINING RING -ADC	1					
W/BF /059	1	9	INNER DRIVE GEAR RING -ADC	1					
W/BF /060		10	OUTER BEARING RETAINING RING	1					
V/BF /061	1	11	FIXED CELL ASSY	1					
W/BF /062		12	MENISCUS RETAINING RING	1					
W/BF /063		13	REAR ELEMENT RETAINING RING	1					
W/BF /064		14	SEALING RING	1					
W/BF /065		15	FIXED CELL SHIMS	4					
V/BF /066		16	OUTER CELL ADJUSTER	3					
V/BF /067		17	OUTER CELL ADJUSTER LOCKNUT	3					
V/BF /068		18	CELL TILT ADJUSTER	3					
V/BF /069		19	CELL TILT ADJUSTER LOCKNUT	3					
V/BF /070		20	CELL TILT ADJUSTER WASHER	3					
W/BF /071		21	BEARING SPACER	1					
W/BF /072		22	SPECIAL GEAR (MOTOR)	2					
W/BF /073	1	23	SUB ASSY - MOTOR & GEARBOX	2					
W/BF /074		24	GEARBOX BASEPLATE - MOTOR	2					
W/BF /075		25	GEARBOX HOUSING	2					
W/BF /076		26	GEARBOX SHAFT	2					
W/BF /077		27	SPECIAL SPUR GEAR MOD.2/13T	4					
W/BF /078		28	SUB-ASSY ENCODER & GEARBOX	2					
W/BF /079		29	GEARBOX BASEPLATE - ENCODER	2					
W/BF /080		30	GEARBOX HOUSING	2					
W/BF /081		31	INTERNAL SUB-PLATE	2					
W/BF /082		32	SPECIAL GEAR -MOD 0.8/9T	2					
W/BF /083		33	SPECIAL GEAR -MOD 0.8/9T	2					
/ /									
W/BF /085		35	SPACER WASHER	4					
/ /									
/ /									
JOB TITLE	WHT PRIME FOCUS ADC/CORRECTOR ASSEMBLY				ASS'Y DRG No. V/BF/050	SHEET No. 1 OF 3	DRAWN BY R.A. DATE DEC 1992		
ROYAL GREENWICH OBSERVATORY, MADINGLEY ROAD, CAMBRIDGE									

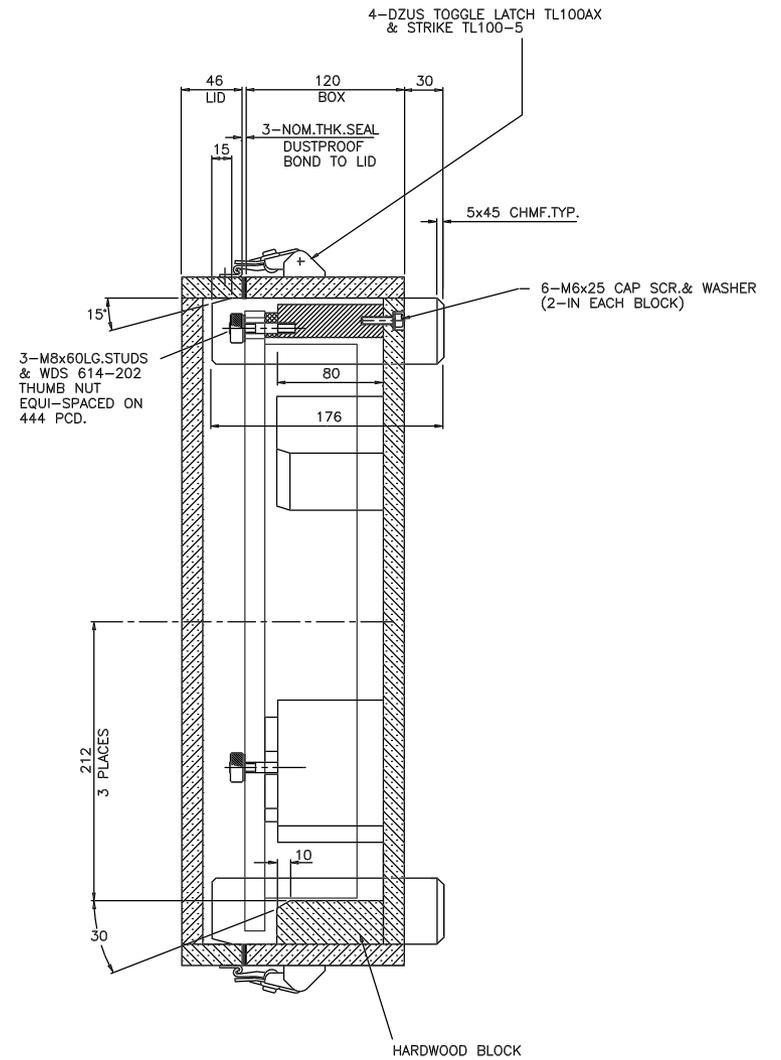


								Tolerance (Unless otherwise stated)		Material		Dimns.in m.m.		Scale 1 : 1		THIRD ANGLE PROJECTION		GA No.	
								X +/- 0.3		H 30 ALLOY		ROYAL GREENWICH OBSERVATORY		Title WHT PRIME FOCUS		Drawing No.		W/BF/112	
								X.X +/- 0.1		Finish		DRG.No. No.Req.		MADINGLEY ROAD		ADC TROLLEY TEST SPHERE MIRROR CELL			
								X.XX +/-		CLEAN		Used on		CAMBRIDGE CB3 0EZ					
Issue	Mod.No	Date	Drawn by	Issue	Mod.No	Date	Drawn by												

REMOVE ALL SHARP EDGES



VIEW WITH LID REMOVED



NOTE GENERAL CONSTRUCTION OF PLYWOOD PANELS WITH HARD WOOD RAILS FINISH TO RGO SPEC.

Tolerance (Unless otherwise stated)						Material		Dimns.in m.m.		Scale 1/2		THIRD ANGLE PROJECTION		GA No.	
Issue	Mod.No	Date	Drawn by	Issue	Mod.No	Date	Drawn by	Drng.No.	No.Req.	Used on	Title		Drawing No.		
						MAY 93	PROMECH				4.2 WHT. STORAGE BOX FOR ADC TEST SPHERE		W/BF/292		
											ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD CAMBRIDGE CB3 0EZ				



