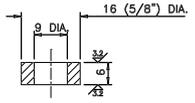


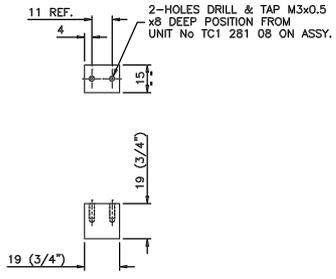
21 TITLE: SPINDLE			
MATERIAL	SCALE	TOLERANCES	
ST. STEEL	1:1	x	±0.2
FINISH	NONE	xx	±0.1
FRONT	NATURAL	xxx	-
G.A. No.	R.G.O. V/TC1 281 21	DRG. No.	

↑



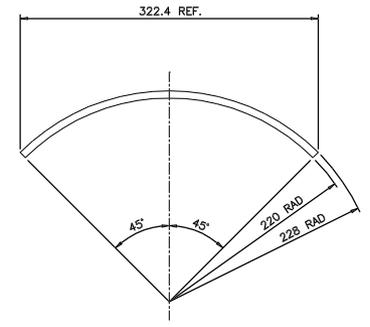
22 TITLE: SPACER			
MATERIAL	SCALE	TOLERANCES	
ST. STEEL	2:1	x	±0.2
FINISH	NATURAL	xx	±0.1
FRONT	NATURAL	xxx	-
G.A. No.	R.G.O. V/TC1 281 22	DRG. No.	

⊕  
ACTUAL SIZE



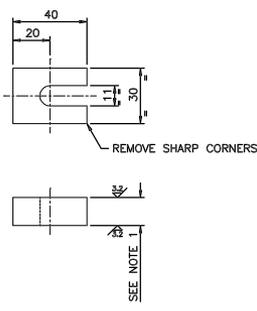
NOTE  
MATERIAL:- "20"CARBON STEEL 3/4" SQUARE BRIGHT BAR

23 TITLE: COIL			
MATERIAL	SCALE	TOLERANCES	
ST. STEEL	1:1	x	±0.2
FINISH	NATURAL	xx	±0.1
FRONT	EGGSHELL BLACK	xxx	-
G.A. No.	R.G.O. V/TC1 281 23	DRG. No.	



NOTES  
1. 4-OFF TO FORM FULL CIRCLE TO BE CUT FROM SAME PIECE OF MATERIAL OR FROM PIECES SELECTED FOR CONSISTANT THICKNESS, MAXIMUM ACCEPTABLE THICKNESS VARIATION 0.01mm.  
2. MATERIAL 3mm THICK GAUGE PLATE.

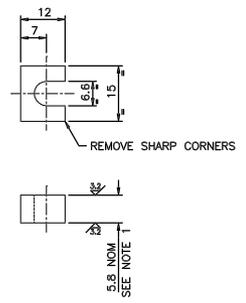
24 TITLE: SPACER			
MATERIAL	SCALE	TOLERANCES	
ST. STEEL	1/2	x	±0.2
FINISH	NATURAL	xx	±0.1
FRONT	NATURAL	xxx	-
G.A. No.	R.G.O. V/TC1 281 24	DRG. No.	



NOTES  
1. THICKNESS & FORM OF SHIM TO BE DETERMINED ON ASSEMBLY.  
2. MATERIAL "20" CARBON STEEL 15 THICK.

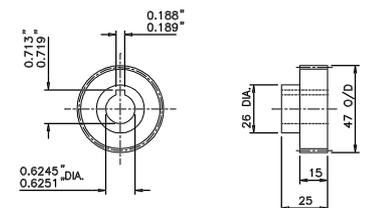
25 TITLE: SHIM			
MATERIAL	SCALE	TOLERANCES	
ST. STEEL EN24	1:1	x	±0.2
FINISH	NONE	xx	±0.1
FRONT	NONE	xxx	-
G.A. No.	R.G.O. V/TC1 281 25	DRG. No.	

⊕  
ACTUAL SIZE



NOTES  
1. THICKNESS & FORM OF SHIM TO BE DETERMINED ON ASSEMBLY.  
2. MATERIAL "20" CARBON STEEL 8 THICK

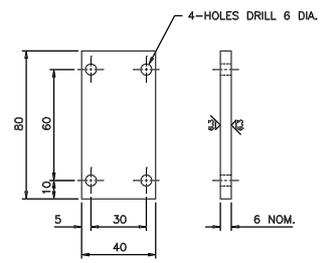
26 TITLE: SHIM			
MATERIAL	SCALE	TOLERANCES	
ST. STEEL EN24	1:1	x	±0.2
FINISH	NONE	xx	±0.1
FRONT	NONE	xxx	-
G.A. No.	R.G.O. V/TC1 281 26	DRG. No.	



GEAR SPECIFICATION  
P.C.D. 45  
No OF TEETH 45  
MODULE 1  
PRESSURE ANGLE 20°  
MANUFACTURED TO BS 436, PART 2, GRADE 6 TO MESH WITH PART No TCT281 08.

MACHINE ALL OVER

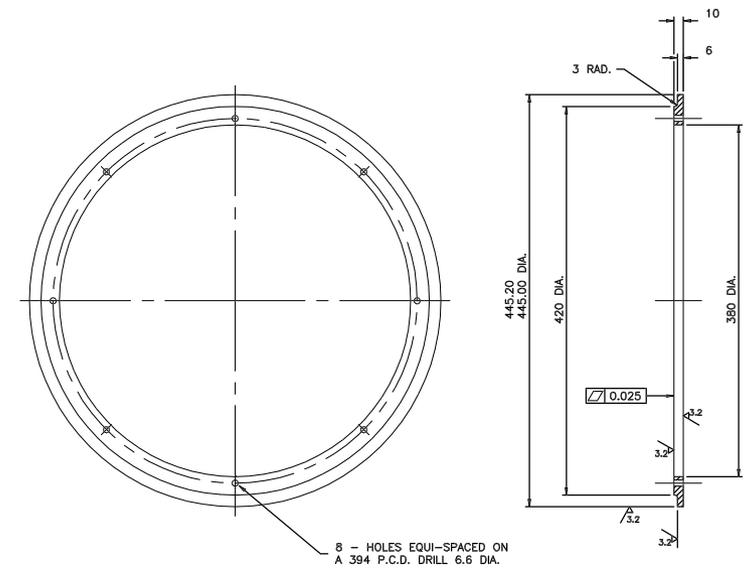
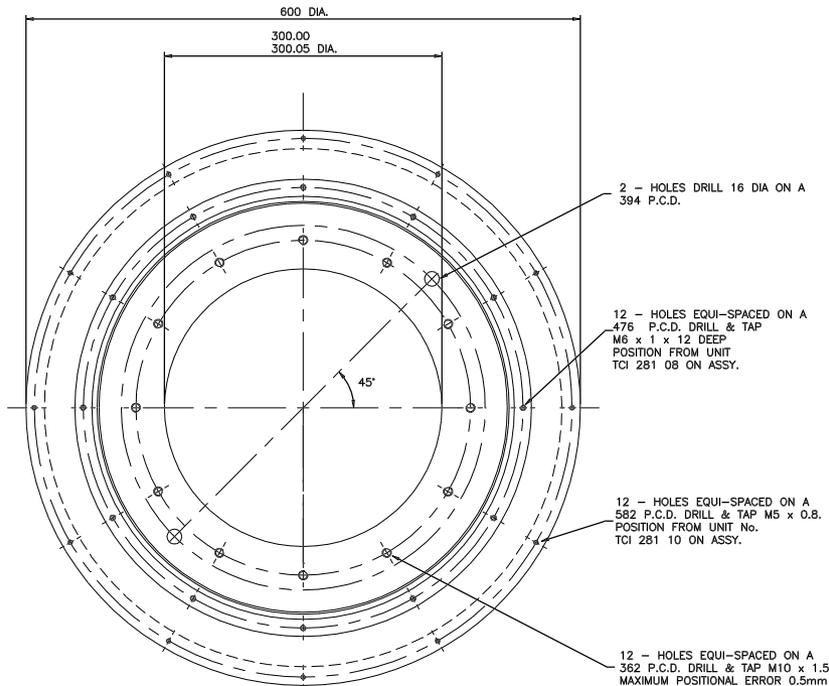
27 TITLE: PINION			
MATERIAL	SCALE	TOLERANCES	
ST. STEEL EN24	1:1	x	±0.2
FINISH	NONE	xx	±0.1
FRONT	NONE	xxx	-
G.A. No.	R.G.O. V/TC1 281 27	DRG. No.	



NOTES  
1. ACTUAL THICKNESS TO BE DETERMINED ON ASSEMBLY.  
2. MATERIAL "20" CARBON STEEL 8 THICK.

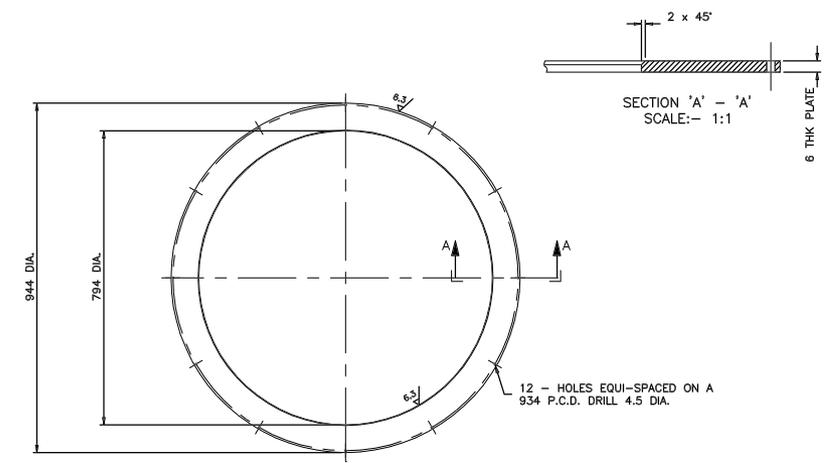
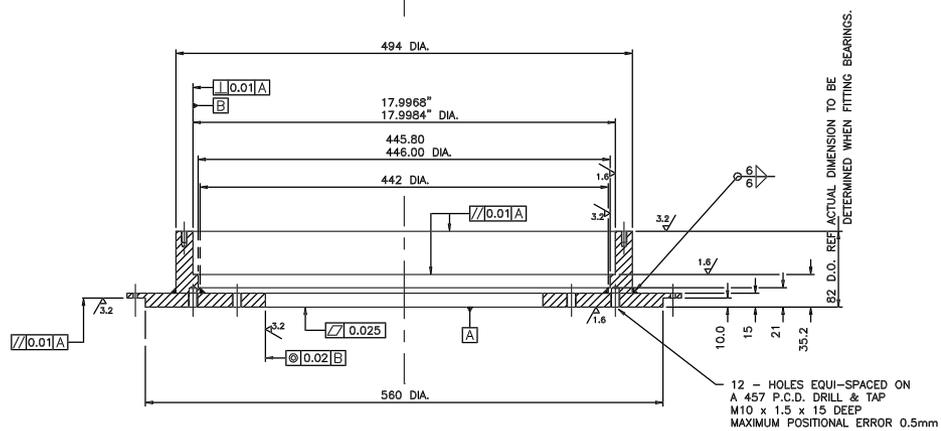
28 TITLE: SHIM			
MATERIAL	SCALE	TOLERANCES	
ST. STEEL EN24	1:1	x	±0.2
FINISH	NONE	xx	±0.1
FRONT	NONE	xxx	-
G.A. No.	R.G.O. V/TC1 281 28	DRG. No.	





**NOTE.**  
PAINT EXPOSED FACES  
EGGSHELL BLACK.

06 BEARING RETAINER.			
MATERIAL: 20" CARBON STEEL	SCALE: 1:2	TOLERANCES: x ±0.2 xx ±0.1	
FINISH: SEE NOTE.	No. REQS. PER UNIT: 1	Dwg. No.:	
G.A. No.:	R.G.O. V/TC1 281 06	DRG. No.:	



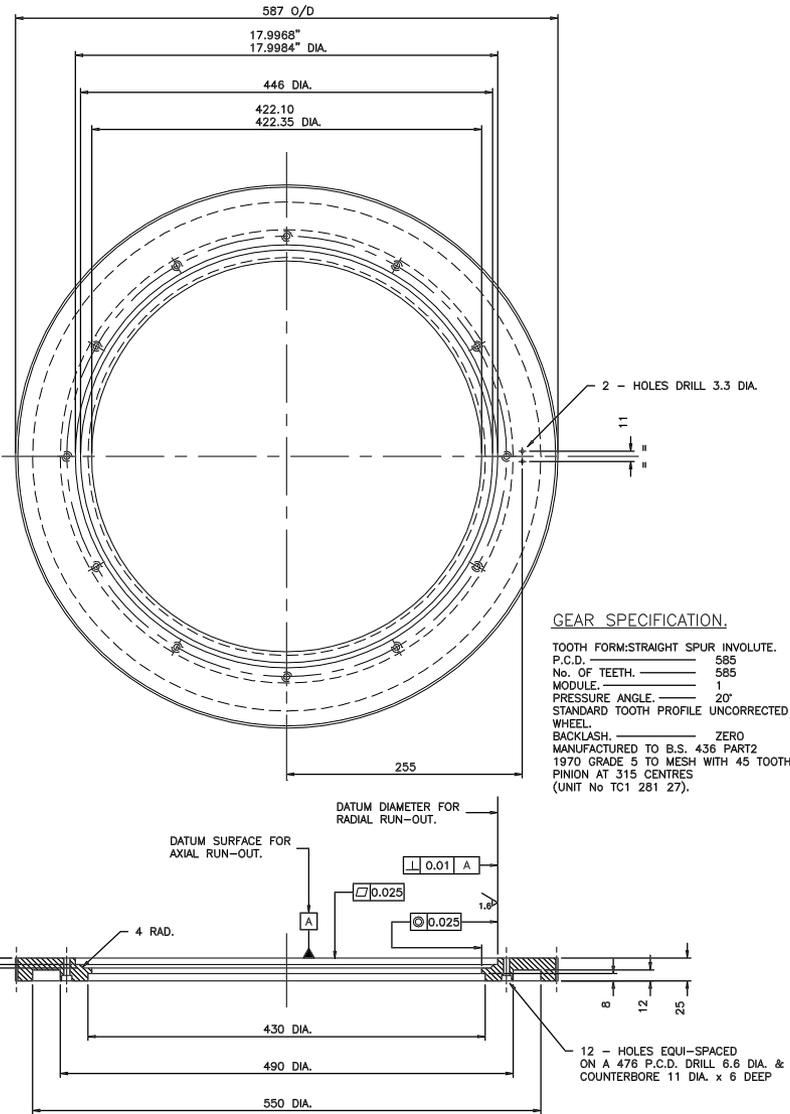
**NOTE.**  
EXTERNAL SURFACES  
EGGSHELL BLACK.

07 BOTTOM RING.			
MATERIAL: ALUMINUM ALLOY.	SCALE: 1:5 & 1:1	TOLERANCES: x ±0.2 xx ±0.1	
FINISH: SEE NOTE.	No. REQS. PER UNIT: 1	Dwg. No.:	
G.A. No.:	R.G.O. V/TC1 281 07	DRG. No.:	

- NOTES:-**
1. TO BE STRESS RELIEVED TO B.S. 1500 - 1958 SECTION 4D & GRIT BLASTED PAINT WITH PRIMER IMMEDIATELY AFTER BLASTING.
  2. ALL WELD SURFACES TO BE CLEAN & FREE FROM SCALE, LAMINATIONS AND INCLUSIONS.
  3. ALL WELDS TO BE CONTINUOUS
  4. TO PURCHASE SPEC. No 1 ISSUE 2.
  5. TO QUALITY CONTROL SCHEDULE Q.C.S.1/4.

05 BEARING HOUSING.			
MATERIAL: STEEL BS4360-43A	SCALE: 1:2	TOLERANCES: x ±0.2 xx ±0.1	
FINISH: EGGSHELL BLACK	No. REQS. PER UNIT: 1	Dwg. No.:	
G.A. No.:	R.G.O. V/TC1 281 05	DRG. No.:	

ISSUE MOD. NO. DATE DRAWN BY				ISSUE MOD. NO. DATE DRAWN BY				MATERIAL FINISH		DIM IN MM SCALE		TITLE		G.A. NO.	
										ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD CAMBRIDGE CB3 0EZ		THIRD ANGLE PROJECTION 4.2 METER TELESCOPE DETAILS FOR PRIME FOCUS TURNABLE		DRG. NO. 05 VTC1 281 07	



**GEAR SPECIFICATION.**

TOOTH FORM: STRAIGHT SPUR INVOLUTE.  
 P.C.D. 585  
 No. OF TEETH. 585  
 MODULE. 1  
 PRESSURE ANGLE. 20°  
 STANDARD TOOTH PROFILE UNCORRECTED WHEEL.  
 BACKLASH. ZERO  
 MANUFACTURED TO B.S. 436 PART2  
 1970 GRADE 5 TO MESH WITH 45 TOOTH PINION AT 315 CENTRES (UNIT No TC1 281 27).

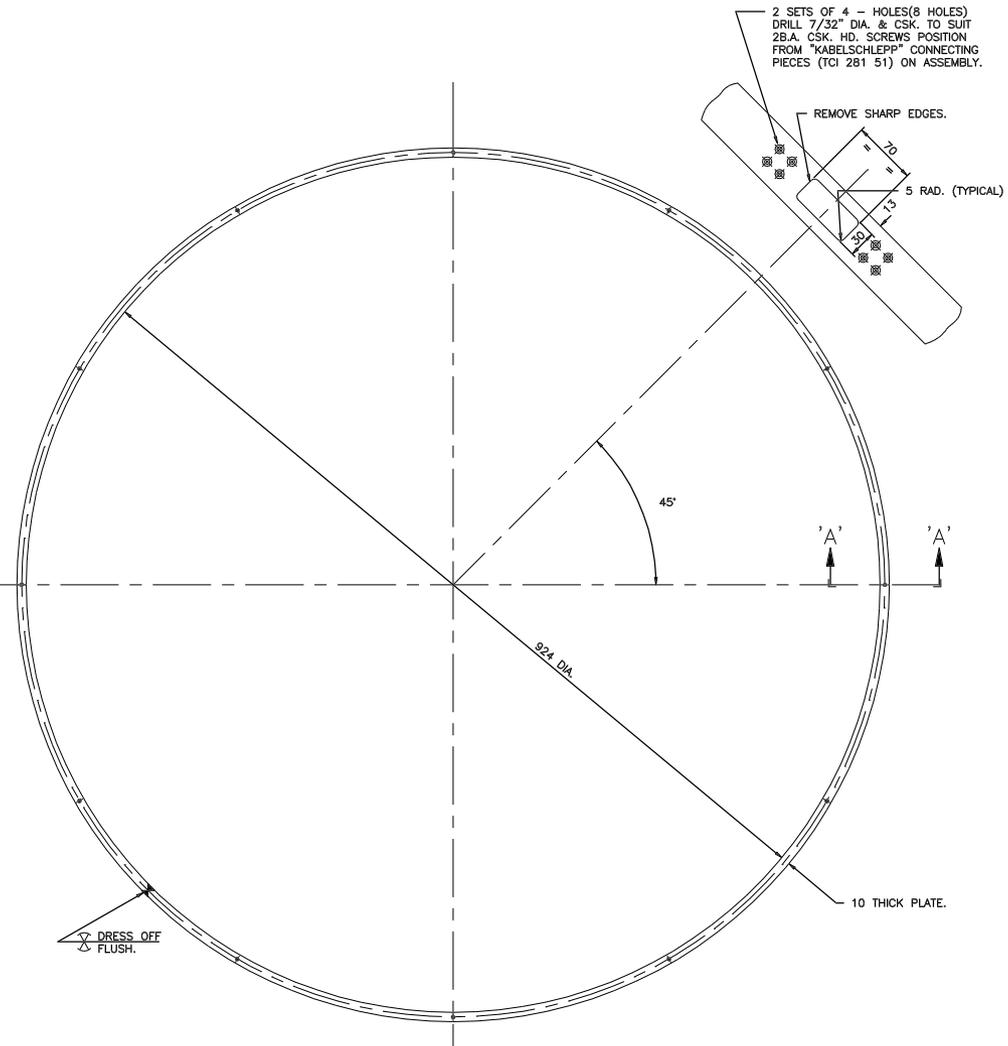
TO BE MANUFACTURED AND INSPECTED TO SPECIFICATION TC1/281/C10

NOTES:-  
 MACHINE  $\frac{3}{2}$  ALL OVER EXCEPT WHERE STATED OTHERWISE.  
 PAINT EXPOSED FACES EGGSHELL BLACK.

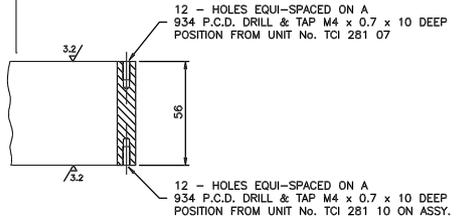
08		TITLE: WHEEL.	
MATERIAL: STEEL ENR.	SCALE: 1:2	TOLERANCES: X ±0.2	Y ±0.1
PROF: 1	NO. REV'S PER UNIT: 1	DATE: / /	ISSUE: / /
G.A. No.	R.G.G. V/TC1 281 08	DESIGNER: / /	DRAWN: / /

ISSUE	MOD. NO.	DATE	DRAWN BY	ISSUE	MOD. NO.	DATE	DRAWN BY

TOLERANCES: (UNLESS OTHERWISE STATED)	MATERIAL:	DIM IN MM	SCALE
X ±0.2 Y ±0.1 Z ±0.1 ANG ±/-	FINISH:	ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD CAMBRIDGE CB3 0EZ	



2 SETS OF 4 - HOLES (8 HOLES) DRILL 7/32" DIA. & CSK. TO SUIT 2B.A. CSK. HD. SCREWS POSITION FROM "KABELSCHLEPP" CONNECTING PIECES (TC1 281 51) ON ASSEMBLY.



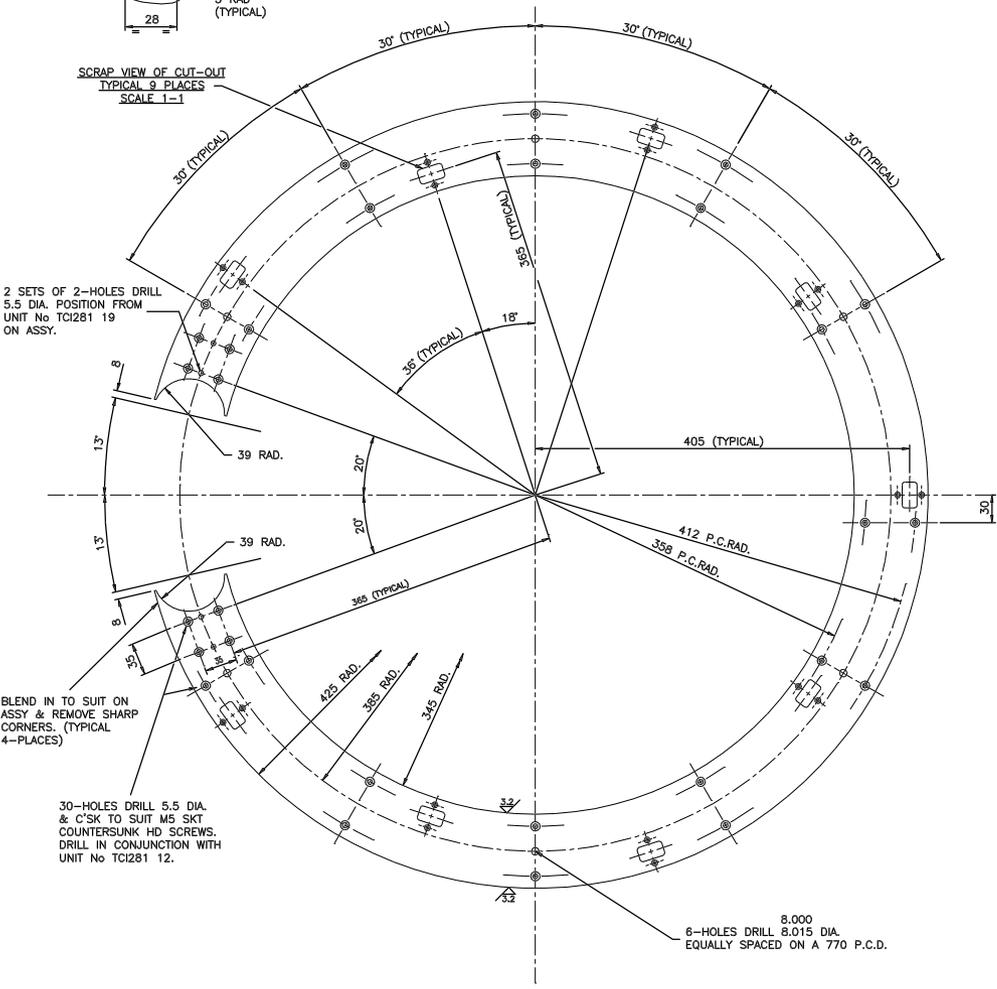
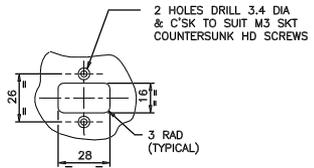
NOTE:-  
 FINISH:- PAINT EXPOSED SURFACES EGGSHELL BLACK

09		TITLE: OUTER RING.	
MATERIAL: ALUMINUM ALLOY.	SCALE: 1:2 & 1:1	TOLERANCES: X ±0.2	Y ±0.1
PROF: 1	NO. REV'S PER UNIT: 1	DATE: / /	ISSUE: / /
G.A. No.	R.G.G. V/TC1 281 09	DESIGNER: / /	DRAWN: / /

THIRD ANGLE PROJECTION	TITLE: 4.2 METER TELESCOPE DETAILS FOR PRIME FOCUS TURNTABLE
------------------------	--

G.A. No.	DRG NO. 08
	VTC1 281 09



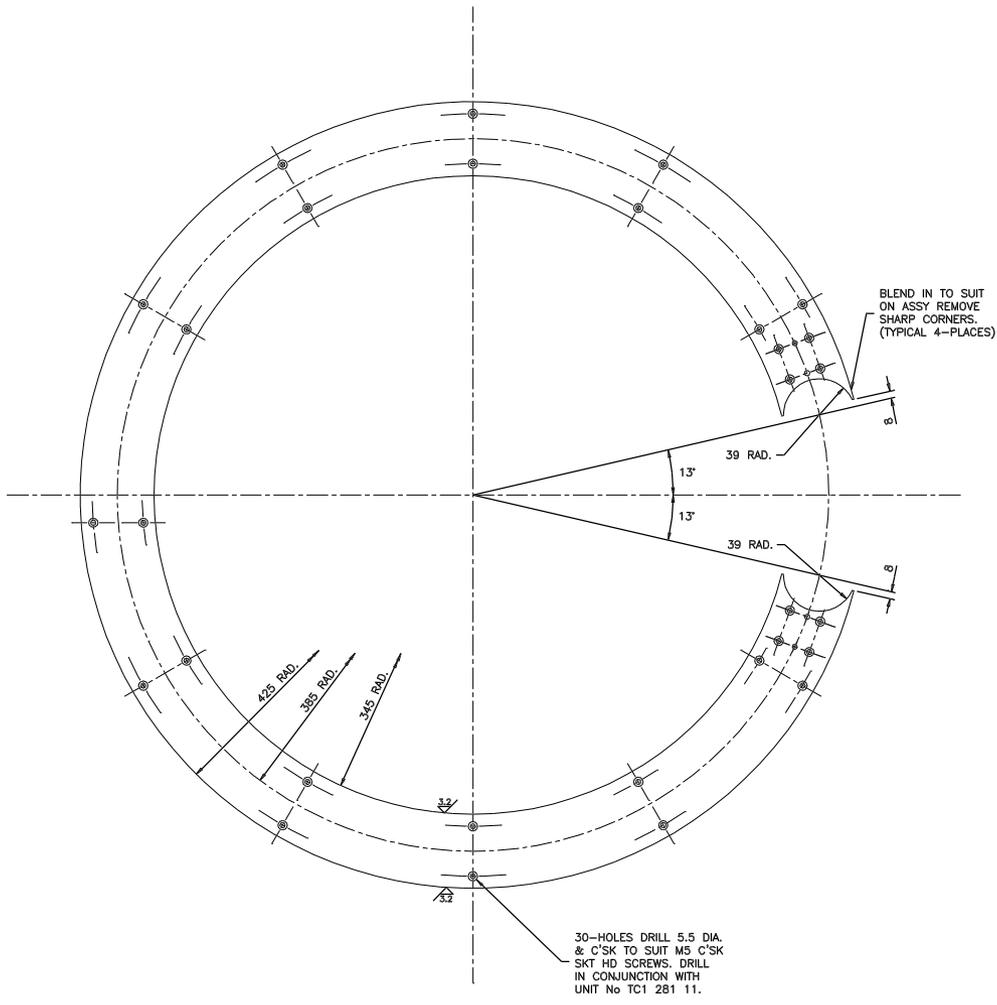


NOTES  
 1. THIS PLATE CAN BE MADE IN CONJUNCTION WITH UNIT No TC1281 12.  
 2. FLAT TO 1.0mm.

TITLE			
11 CHAIN GUIDE BOTTOM PLATE			
DRG NO.	SCALE	TOLERANCES	
11	1:2 & 1:1	x ±0.2	
FORM	NO. REV'S PER UNIT	OK ±0.1	
NATURAL	1	OK -	
G.A. No.	DRG. No.	ISSUE No.	
	R.G.O. V/TC1 281 11		

ISSUE				MOD. NO.				DATE				DRAWN BY			
				-				CAD.TRANSF.				4-3-91			
								HDS.							

TOLERANCES (UNLESS OTHERWISE STATED)		MATERIAL	
X	+/-		
XX	+/-	FINISH	
ANG	+/-		



NOTES  
 1. THIS PLATE CAN BE MADE IN CONJUNCTION WITH UNIT No TC1 281 11.  
 2. FLAT TO 1.0mm.

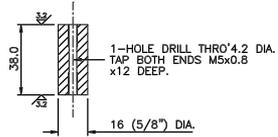
TITLE			
12 CHAIN GUIDE TOP PLATE			
DRG NO.	SCALE	TOLERANCES	
12	1:2	x ±0.2	
FORM	NO. REV'S PER UNIT	OK ±0.1	
NATURAL	1	OK -	
G.A. No.	DRG. No.	ISSUE No.	
	R.G.O. V/TC1 281 12		

ISSUE				MOD. NO.				DATE				DRAWN BY			

TOLERANCES (UNLESS OTHERWISE STATED)		MATERIAL	
X	+/-		
XX	+/-	FINISH	
ANG	+/-		

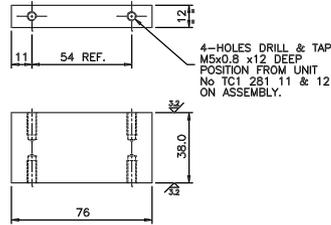
DIM IN MM		SCALE		THIRD ANGLE PROJECTION				G.A. NO.			
				ROYAL GREENWICH OBSERVATORY				DRG NO. 11			
				MADINGLEY ROAD				VTC1 281 12			
				CAMBRIDGE CB3 0EZ							

TITLE  
 4.2 METER TELESCOPE  
 DETAILS FOR PRIME FOCUS TURNABLE



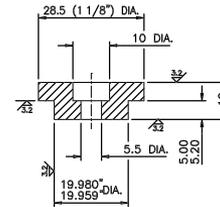
13 TITLE: SPACER  

MATERIAL	SCALE	TOLERANCES
AL. ALLOY	1:1	x ±0.2
FINISH	Nr. REVS. PER UNIT	xx ±0.1
NATURAL	4	xxx -
G.A. No.	ISSUAL No.	
	R.G.O. V/TC1 281 13	



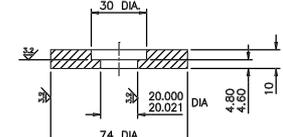
14 TITLE: SPACER  

MATERIAL	SCALE	TOLERANCES
AL. ALLOY	1:1	x ±0.2
FINISH	Nr. REVS. PER UNIT	xx ±0.1
NATURAL	5	xxx -
G.A. No.	ISSUAL No.	
	R.G.O. V/TC1 281 14	



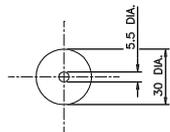
15 TITLE: BEARING  

MATERIAL	SCALE	TOLERANCES
BRASS	2:1	x ±0.2
FINISH	Nr. REVS. PER UNIT	xx ±0.1
NATURAL	4	xxx -
G.A. No.	ISSUAL No.	
	R.G.O. V/TC1 281 15	



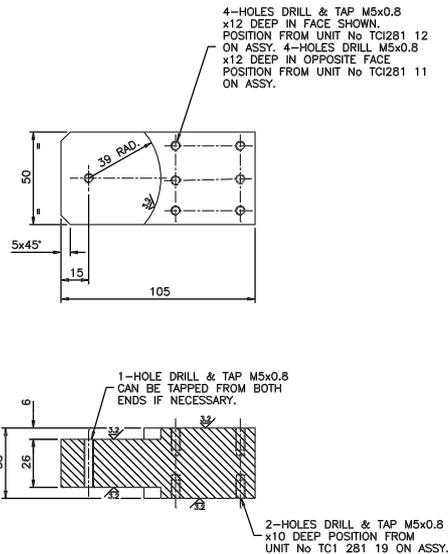
16 TITLE: ROLLER  

MATERIAL	SCALE	TOLERANCES
ST. STEEL	1:1	x ±0.2
FINISH	Nr. REVS. PER UNIT	xx ±0.1
NATURAL	4	xxx -
G.A. No.	ISSUAL No.	
	R.G.O. V/TC1 281 16	



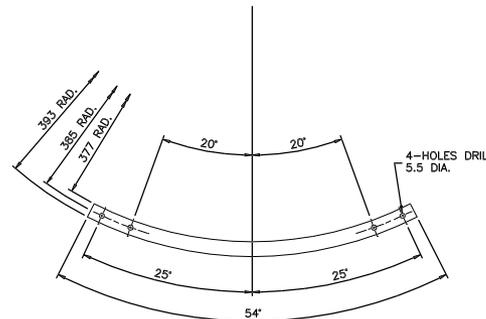
17 TITLE: BEARING SPACER  

MATERIAL	SCALE	TOLERANCES
BRASS 1/16" THICK	1:1	x ±0.2
FINISH	Nr. REVS. PER UNIT	xx ±0.1
NATURAL	4	xxx -
G.A. No.	ISSUAL No.	
	R.G.O. V/TC1 281 17	



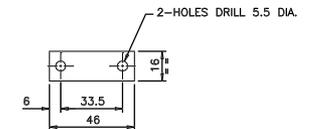
18 TITLE: WHEEL SPACER  

MATERIAL	SCALE	TOLERANCES
AL ALLOY HE30	1:1	x ±0.2
FINISH	Nr. REVS. PER UNIT	xx ±0.1
NATURAL	2	xxx -
G.A. No.	ISSUAL No.	
	R.G.O. V/TC1 281 18	



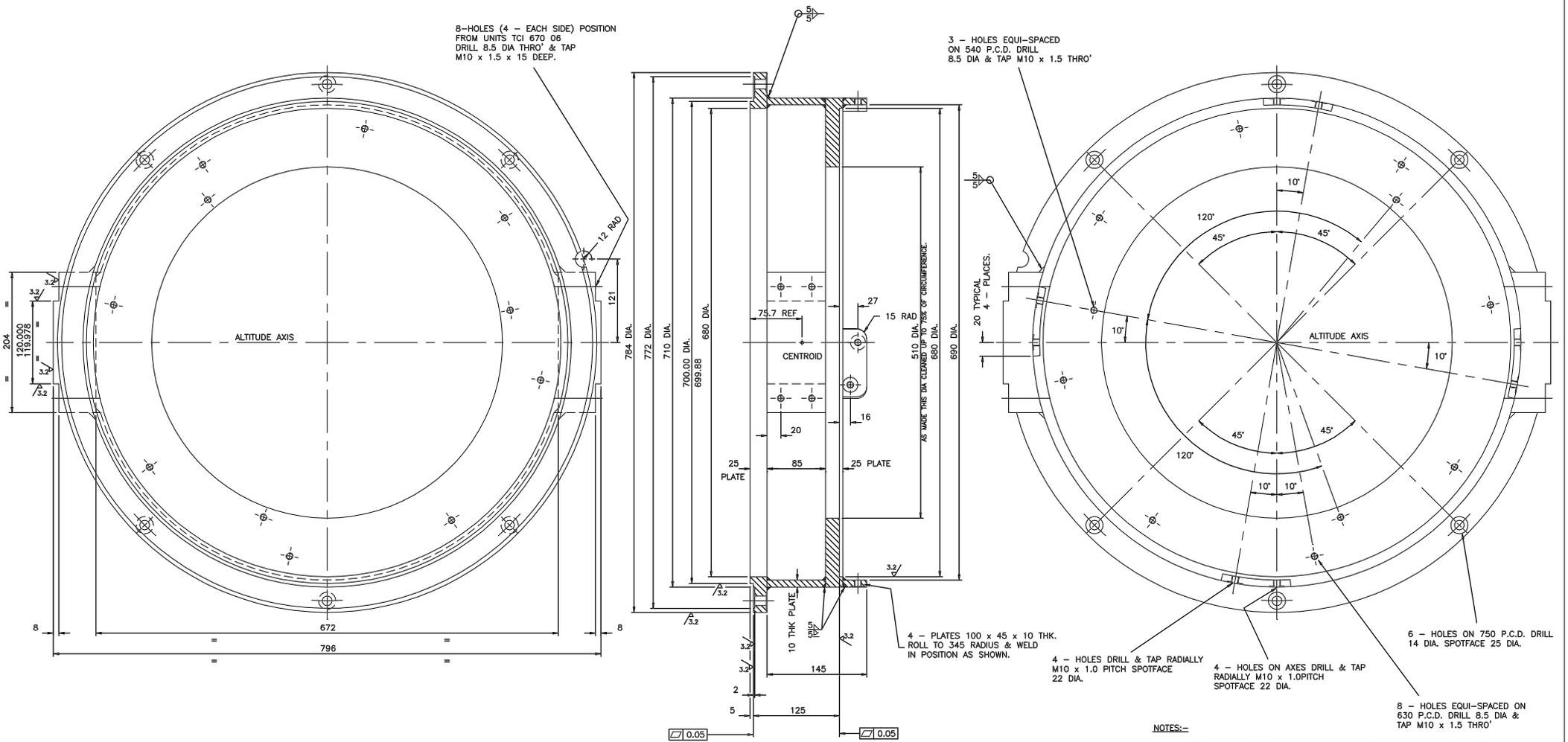
19 TITLE: TIE BAR  

MATERIAL	SCALE	TOLERANCES
SEE NOTE	1:2	x ±0.2
FINISH	Nr. REVS. PER UNIT	xx ±0.1
NATURAL	1	xxx -
G.A. No.	ISSUAL No.	
	R.G.O. V/TC1 281 19	



20 TITLE: SPACER  

MATERIAL	SCALE	TOLERANCES
SEE NOTE	1:1	x ±0.2
FINISH	Nr. REVS. PER UNIT	xx ±0.1
NATURAL	2	xxx -
G.A. No.	ISSUAL No.	
	R.G.O. V/TC1 281 20	

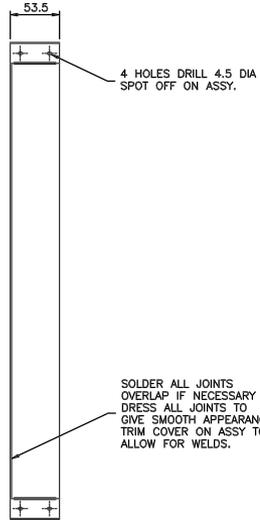
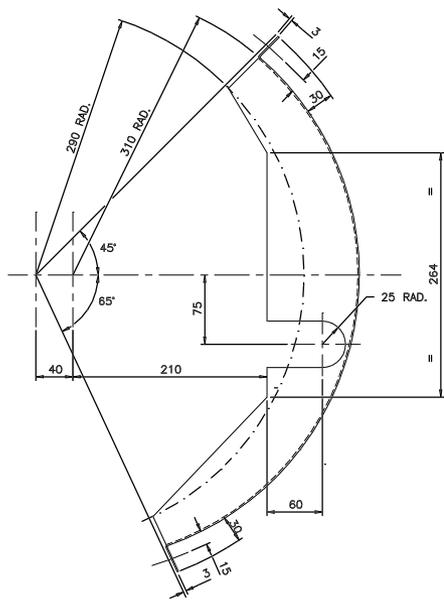


- NOTES:-
- 1, TO BE STRESS RELIEVED TO B.S. 1500 - 1958 SECTION 4D & GRIT BLASTED PAINT WITH PRIMER IMMEDIATELY AFTER BLASTING.
  - 2, ALL WELD SURFACES TO BE CLEAN & FREE FROM SCALE, LAMINATIONS AND INCLUSIONS.
  - 3, ALL WELDS TO BE CONTINUOUS
  - 4, TO PURCHASE SPEC. No 1 ISSUE 2.
  - 5, TO QUALITY CONTROL SCHEDULE Q.C.S.1/4.

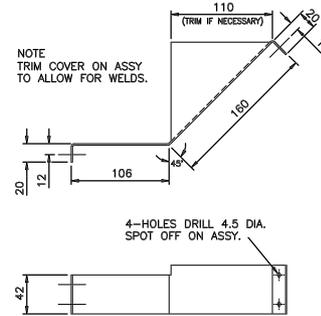
03 P.F. TURNABLE ADAPTOR	
DESIGN: STEEL BS4300-43A	SCALE: 1:2
DRAWN: EDGSHILL BLACK	NO. REV'S PER UNIT: 1
G.A. NO.:	DATE: 1
R.G.O. V/TC1 281 03	DRWING NO.:

TOLERANCES (UNLESS OTHERWISE STATED)				MATERIAL		DIM IN MM		SCALE		THIRD ANGLE PROJECTION		G.A. NO.	
X. +/-				FINISH		DRG NO.		NO REQ		ROYAL GREENWICH OBSERVATORY		DRG NO.	
X.XX +/-				USED ON		CAMBRIDGE CB3 0EZ		TITLE		4.2 METER TELESCOPE		VTC1 281 03	
ANG +/-										DETAILS FOR PRIME FOCUS TURNABLE			





FILE		
37 WHEEL COVER BRACKET		
MATERIAL	QTY.	TOLERANCES
16 GAUGE M.S.SHT	1:2	x ±0.2
FINISH	No. REVS. PER UNIT	xx ±0.1
PAIN'T MATT BLACK	1	xxx -
G.A. No.	ISSUAL. No.	
R.G.O. V/TC1	281 37	



NOTE  
1 OFF AS SHOWN  
1 OFF OPP. HAND

FILE		
38 WHEEL COVER BRACKET		
MATERIAL	QTY.	TOLERANCES
16 GAUGE M.S.SHT	1:2	x ±0.2
FINISH	No. REVS. PER UNIT	xx ±0.1
PAIN'T MATT BLACK	SEE NOTE	xxx -
G.A. No.	ISSUAL. No.	
R.G.O. V/TC1	281 38	

								TOLERANCES (UNLESS OTHERWISE STATED)		MATERIAL		DIM IN MM		SCALE		THIRD ANGLE PROJECTION		G.A. NO.	
								x	+/-										
								x.x	+/-	FINISH									
ISSUE	MOD. NO.	DATE	DRAWN BY	ISSUE	MOD. NO.	DATE	DRAWN BY				DRG NO.	NO REQ	ROYAL GREENWICH OBSERVATORY	TITLE	4.2 METER TELESCOPE				
								ANG	+/-		USED ON			MADINGLEY ROAD	DETAILS FOR PRIME FOCUS TURNABLE				
														CAMBRIDGE CB3 0E2					
																			37
																			38
																			V/TC1 281