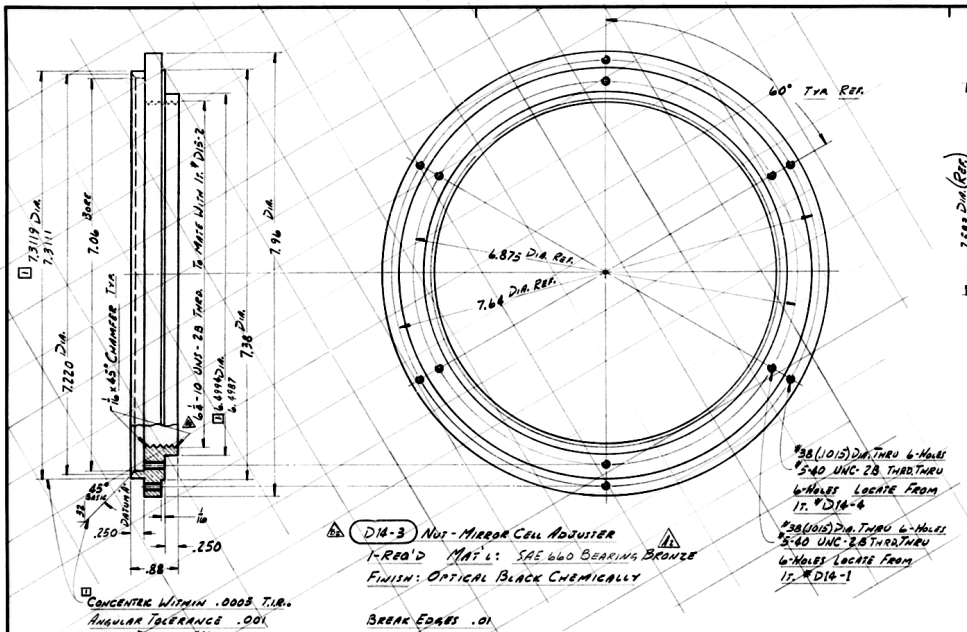
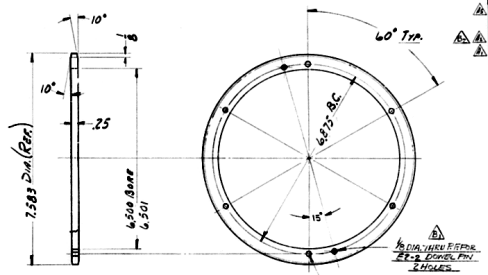


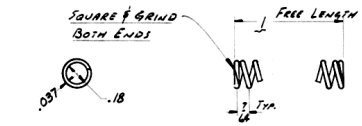
Ⓓ Concentric Within .0005 T.I.R.
Angular Tolerance .001
Total Datum 'A'

Ⓑ D14-3 Nut - Mirror Cell Adjuster
1-Req'd Mat'l: SAE 660 Bearing Bronze Ⓘ
Finish: Optical Black Chemically
Break Edges .01



Gear Tooth Data
Pitch Dia: 7.500
Diametral Pitch: 24
Pressure Angle: 14½°
No. Of Teeth: 180
Tolerances: Precision 1 Gear

D14-1 Gear - Driven
1-Req'd Mat'l: SAE 660 Bearing Bronze Ⓘ
Scale: Half
Finish: Optical Black Chemically
Break Edges .01

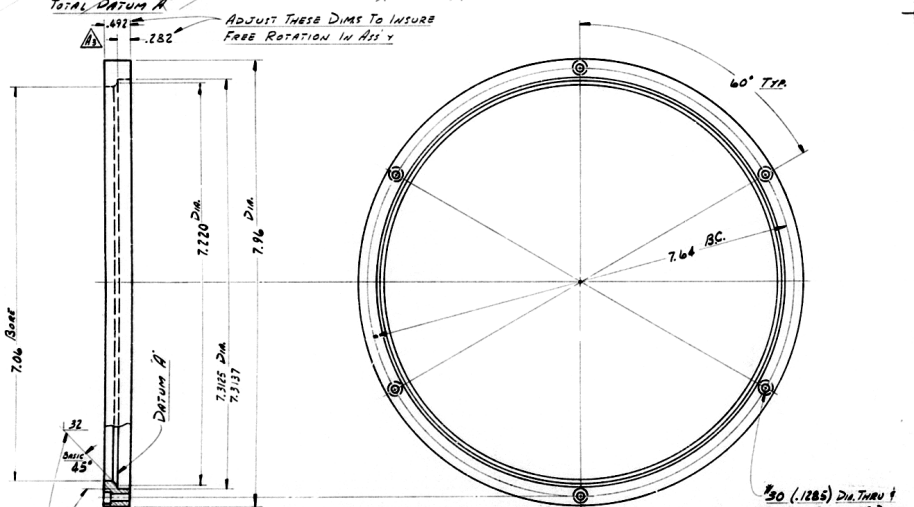


D14-5 Spring
3-Req'd Mat'l: #16 Gage (.037) Dia. Steel Music Wire
Finish: Optical Black Chemically

BILL OF MATERIAL

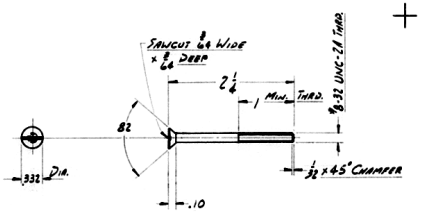
ITEM	DWG. NO.	QTY.	MATERIAL	DESCRIPTION	WEIGHT
Ⓑ	D14-1	1	SAE 660 Bearing Bronze	.250 x 7.583 x 7.583	
	D14-2	3	Stn. Stl. #616	3/16 Dia x 2¼ Lg.	
Ⓐ Ⓘ	D14-3	1	SAE 660 Bearing Bronze	.88 x 7.96 x 7.96	
Ⓐ	D14-4	1	SAE 660 Bearing Bronze	.44 x 7.96 x 7.96	
	D14-5	3	Steel Music Wire	#16 Gage (.037 Dia.)	
	D14-6	1	Instrument Counter	#37-8823-R-MC "Durant"	
	D14-7	1	Set Scr. #1473 AS 1032-4-80	"Nylok"	

NOTE: SIZES OF MATERIAL LISTED DO NOT INCLUDE STOCK ALLOWANCE FOR MACHINING AND CUTTING-OFF UNLESS OTHERWISE SPECIFIED. THE MATERIAL REQUIRED FOR ONE PIECE ONLY. QUANTITIES NOTED ARE THE TOTAL NUMBER REQUIRED.

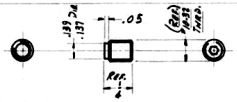


Concentric Within .0005 T.I.R.
Angular Tolerance .001 Total Datum 'A'

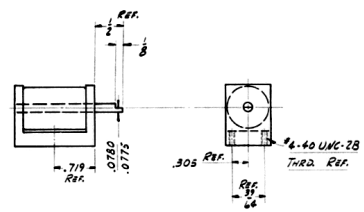
D14-6 Retainer - Ball
1-Req'd Mat'l: SAE 660 Bearing Bronze Ⓘ
Finish: Optical Black Chemically
Break Edges .01



D14-2 Screw
3-Req'd Mat'l: Stn. Stl. #616
Finish: Optical Black Chemically



D14-7 Set Screw
Alter As Shown
1-Req'd
Scale: 2 x Size



D14-6 Counter
1-Req'd See Bill Of Mat'l
Alter As Shown

REF FILE 2020

QUANT.	PRINT RECORD	DATE

NO.	REVISION	DATE	BY
B2	D14-3 Redesigned (See D44-1)	12-29-65	MEL
B1	1/8 Dia. Thru - 2 Holes In D14-1 Added	11-22-65	MEL
A5	SAE 660 Bearing Bronze Wet Brass Alloy #650	7-7-61	CLM
A4	Reduce To Major Dia. Of 6/4-10 Thrd. Were To Minor Dia.		
A3	.492 Dim. Was .44 & .282 Dim. Was .25		
A2	SAE 660 Bearing Bronze Wet Brass Alloy #650		
A1	SAE 660 Bearing Bronze Wet Brass Alloy #650		

Tolerances Unless Otherwise Noted:
Decimal: 00.00 ±.010, 0.000 ±.003, Angles ± 1/4°
Fractional: Fabrication: Up to 10" ± 1/16, 10" to 50" ± 1/8, 50" & over ± 3/16
Machining: Up to 10" ± .015, 10" to 50" ± .020, 50" & over ± .040
⊥ .005"/inch
Machined surfaces are finished to 125 unless otherwise specified.

For Next Ass'y See 2028.01-E2

KITT PEAK NATIONAL OBSERVATORY
Operated by the Association of Universities for Research in Astronomy, Inc. under contract with National Science Foundation

84" Telescope -- Cassegrain Spectrograph

Name: Details For Collimator

Designed By	Date
A.C. Mackrill	5-30-62
Drawn By	Date
Peter	6-7-63
Approved By	Date
A.C.M.	7-12-67
Scale	Full

Dwg. Number: 2028.01-D14 Rev. B