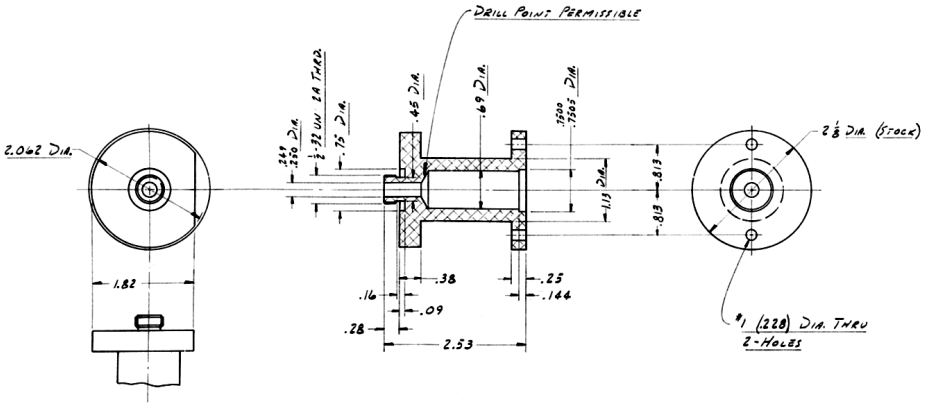
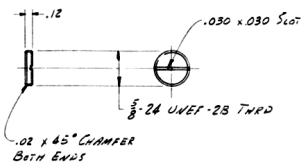
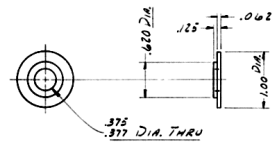
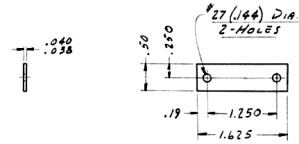


D21-1 MOUNT -- TURNS COUNTER
No. Req'd: 1
Mat'l: Alum. Alloy #2024-T4
Finish: Black Sulfuric Anodize



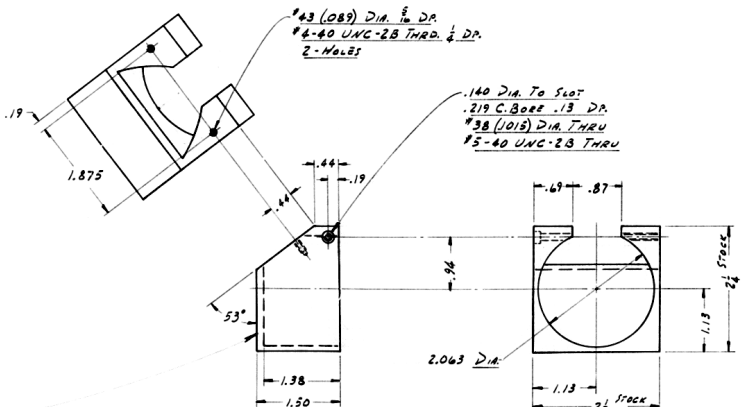
D21-7 PLUG.
No. Req'd: 1
Mat'l: BRASS ALLOY #271
OPTICAL BLACK CHEMICALLY





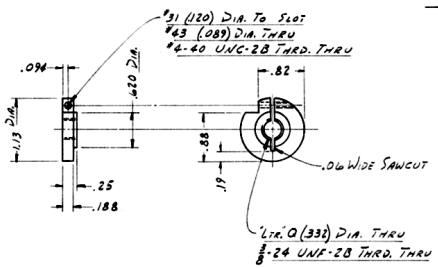
D21-2 DISC. -- PRESSURE
No. Req'd: 1
Mat'l: Alum. Alloy #2024-T4
Finish: Black Sulfuric Anodize

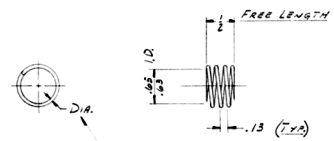
D21-3 RETAINER -- SHAFT
No. Req'd: 1
Mat'l: BRASS ALLOY #62



STAMP:
PLEASE DO NOT TURN
TURNS COUNTER MANUALLY.
IT MAY CAUSE DAMAGE.

D21-6 GUARD -- TURNS COUNTER
No. Req'd: 1
Mat'l: Alum. Alloy #2024-T4
Finish: Black Sulfuric Anodize





ESTABLISH THIS DIM. TO PROVIDE NO MORE THAN 1 1/2 IN. OZ. TORQUE ABOUT E OF IT. #D20-8 26 IN. LBS. TORQUE ABOUT GRATING PIVOT POINT IN ASS'Y.

D21-4 SPRING
No. Req'd: 1
Mat'l: MUSIC WIRE (STAINLESS STL.)
Finish: OPTICAL BLACK CHEMICALLY

D21-5 NUT
No. Req'd: 1
Mat'l: Alum. Alloy #2024-T4
Finish: Black Sulfuric Anodize

BILL OF MATERIAL

ITEM	DWG. NO.	QTY.	MATERIAL	DESCRIPTION	WEIGHT
D21-1		1	Alum. Alloy #2024-T4	2 1/8 Dia. x 2.53	
2		1	Alum. Alloy #2024-T4	1.00 Dia. x .125 Thk.	
3		1	Brass Alloy #62	.04 x .50 x 1.25	
4		1	Stainless Stl. Music Wire	Dia. To Suit Note	
5		1	Alum. Alloy #2024-T4	1.13 Dia. x .25 Thk.	
6		1	Alum. Alloy #2024-T4	2 1/4 x 2 1/4 x 1.50	
7		1	Brass Alloy #271	5/8 Dia. x .12 Lg.	

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

Ref. File 2090

Note:
Remove All Burrs
& Sharp Edges
Unless Otherwise Specified

TOLERANCES UNLESS OTHERWISE NOTED.
DECIMAL .00 ±.010, .000 ±.005, ANGLES ±1/4°
FRACTIONAL—
FABRICATION: UP TO 10" ±1/16, 10" TO 50" ±1/8, 50" & OVER ±.5%, ⊥ .005"/INCH
MACHINING: UP TO 16" ±.010, 16" TO 50" ±.020, 50" & OVER ±.040, ⊥ .005"/INCH
MACHINED SURFACES ARE FINISHED TO 125 UNLESS OTHERWISE SPECIFIED.

QUANT.	PRINT RECORD	DATE

NO.	REVISION	DATE	BY

For Assembly See: 2028.01-D9

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

Designed by	R.C. Hickey, Date 1/28/64
Drawn by	P. Petri, Date 2/3/64
Approved by	[illegible], Date 3/9/64
Name	Details Grating Drive
Scale	Full
Dwg. Number	2028.01-D21