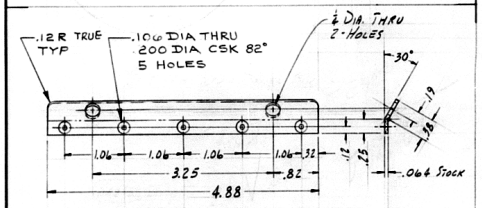
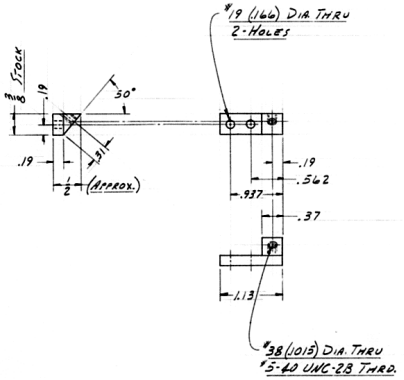


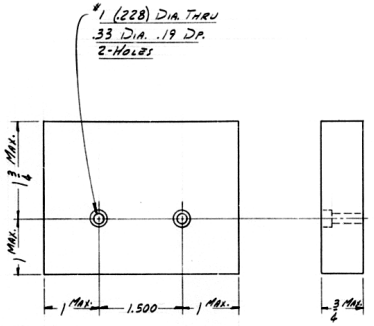
D32-12 PROTECTIVE SLIDE GUIDE (UPPER)
No. REQ'D: 1
MAT'L: PHOSPHOR BRONZE ALLOY #351
OPTICAL BLACK CHEMICALLY



D32-11 PROTECTIVE SLIDE GUIDE (LOWER)
No. REQ'D: 1
MAT'L: PHOSPHOR BRONZE ALLOY #351
OPTICAL BLACK CHEMICALLY



D32-2 BRKT.
No. REQ'D: 1
MAT'L: ALUM. ALLOY #2024-T6
BLACK SULFURIC ANODIZE

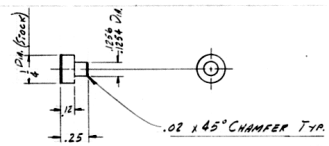


D32-1 COUNTERWEIGHT
No. REQ'D: 2
MAT'L: SEE NOTE
PAINT BLACK

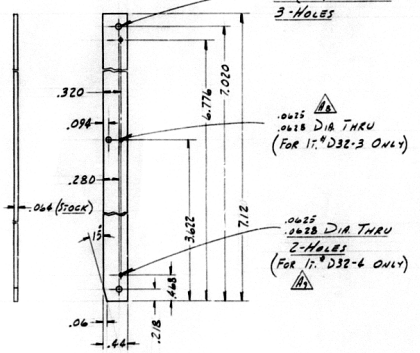
NOTE:
MAT'L & DIMS (EXCEPT HOLE SPREAD)
TO BE DETERMINED AT TRYOUT.

BILL OF MATERIAL					
ITEM	DWG. NO.	QTY.	MATERIAL	DESCRIPTION	WEIGHT
D32-1		2	To Suit (See Note)	To Suit (See Note)	
-2		1	Alum. Alloy #2024-T4	3/8 x 1/2 x 1.13	
-3		1	Phos. Bronze Alloy #351	.064 x .44 x 7.12	
-4		1	Phos. Bronze Alloy #351	.064 x .44 x 7.12	
-5		1	Phos. Bronze Alloy #351	.064 x .44 x 7.12	
-6		1	Phos. Bronze Alloy #351	.064 x .44 x 7.12	
-7		3	Naval Brass Alloy #450	.19 Dia. x .170 Lg.	
-8		1	Naval Brass Alloy #450	.19 Dia. x .188 Lg.	
-9		6	Phos. Bronze Alloy #351	.064 x .240 x 1.12	
-10		2	C1018 Cold Rolled Stl.	1/8 Dia. x 1/4 Lg.	
-11		1	Phos. Bronze Alloy #351	.066 x .69 x 4.88	
-12		1	Phos. Bronze Alloy #351	.080 x .32 x 5.75	

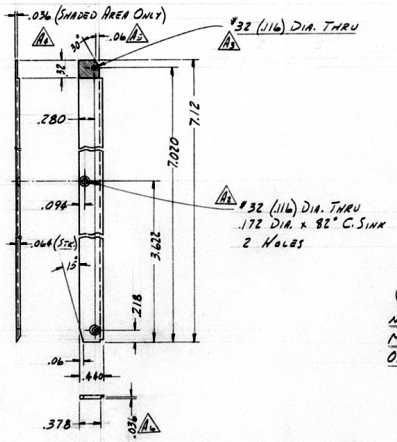
NOTE: SIZES OF MATERIAL LISTED DO NOT INCLUDE STOCK ALLOWANCE FOR MACHINING AND CUTTING OFF EXCEPT AS NOTED. THE SIZE SPECIFIES THE MATERIAL REQUIRED FOR ONE PIECE ONLY. QUANTITIES NOTED ARE THE TOTAL NUMBER REQUIRED.



D32-10 REST BUTTON
No. REQ'D: 2
MAT'L: C1018 COLD ROLLED STEEL
HDN: CARBORIZE
SCALE: 2 x SIZE

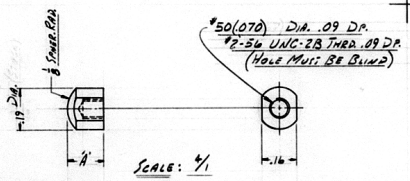


D32-3 D32-4 RETAINER -- GRATING
No. REQ'D: 1 No. REQ'D: 1
MAT'L: PHOS. BRONZE ALLOY #351
OPTICAL BLACK CHEMICALLY



D32-5 GUIDE -- GRATING GUARD (SHOWN)
No. REQ'D: 1
MAT'L: PHOS. BRONZE ALLOY #351
OPTICAL BLACK CHEMICALLY

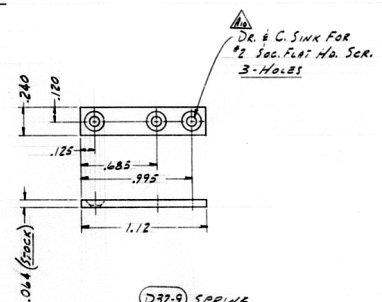
D32-6 GUIDE -- GRATING GUARD (OPPOSITE)



ITEM	DIM. "A"
C1 D32-7	ADJUST FOR .004 DEFLECTION OF ITEM D32-9
C2 D32-8	" " .012 " " " "

D32-8 SPRING BUTTON
No. REQ'D: 3
MAT'L: NAVAL BRASS ALLOY #450
OPTICAL BLACK CHEMICALLY

D32-7 SPRING BUTTON
No. REQ'D: 3
MAT'L: NAVAL BRASS ALLOY #450
OPTICAL BLACK CHEMICALLY



D32-9 SPRING
No. REQ'D: 4
MAT'L: PHOS. BRONZE ALLOY #351
OPTICAL BLACK CHEMICALLY
SCALE: 2 x SIZE

REMOVE ALL BURRS & SHARP EDGES UNLESS OTHERWISE SPECIFIED.

TOLERANCES UNLESS OTHERWISE NOTED.
DECIMAL 00.00 ±.010 ANGLES ± 1/4°
00.000 ±.003
FRACTIONAL--
FABRICATION: UP TO 10" ± 1/16; 10" TO 20" ± 1/8; 20" & OVER ± .5%; ⊥ .005"/INCH
MACHINING: UP TO 18" ± .010; 18" TO 20" ± .020; 20" & OVER ± .050; ⊥ .0005"/INCH
MACHINED SURFACES ARE FINISHED TO 125 UNLESS OTHERWISE SPECIFIED.

QUANT.	PRINT RECORD	DATE	BY

NO.	REVISION	DATE	BY
C2	ITEM D32-8 "A" DIM. WAS .188	10-27-86	SOJ
C1	" " " .170		
B	REVISED AS BUILT - ECR 1512		
A10	D32-6 SAME AS #3 THRU #9 EXCEPT AS NOTED		
A9	ADDED .032 DIA. THRU (FOR ITEM D32-6 ONLY)		
A8	ADDED .0625 DIA. THRU (FOR ITEM D32-3 ONLY)		
A7	D32-6 1 REQ'D WAS 2 REQ'D		
A6	.036 DIM. WAS .032		
A5	ADDED 30° & .06 DIMS		
A4	ADDED .036 & .32 DIMS		
A3	.172 DIA. x 82° C'SINK REMOVED FROM #32 HOLE		
A2	#32 DIA. 7/C SINK 2 HOLES WAS 3 HOLES		
A1	ADDED ITEMS D32-11 & 12 & 3	29 SEP 85	PETRI

FOR NEXT ASS'Y SEE: 2028.01-D8

REF. FILE 2020

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. MACMILLAN	DATE 10 OCT 83
DRAWN BY	PETRI	DATE 10 OCT 83
APPROVED BY	R.C. MACMILLAN	DATE 11/1/83
SCALE	FULL	
NAME	DETAILS GRATING CELL & CELL HOLDER	DWG. NUMBER 2028.01-D32 REV C

0 1 2 3 4 5 6 7 8 9 10