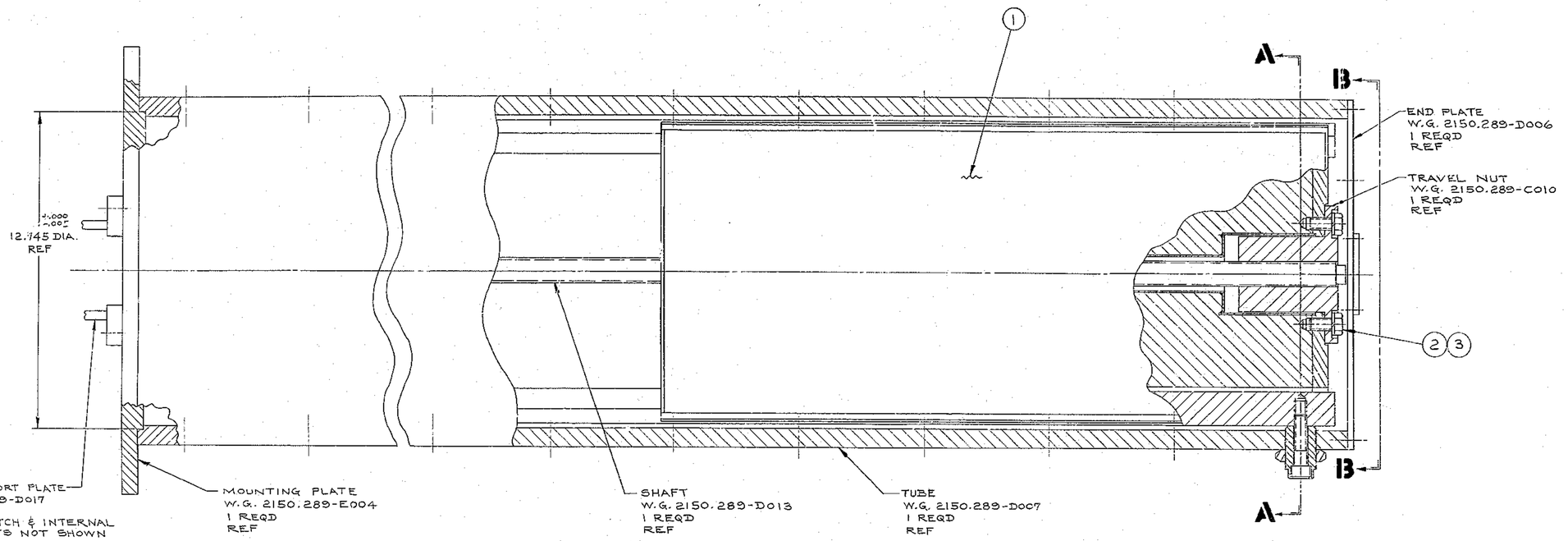
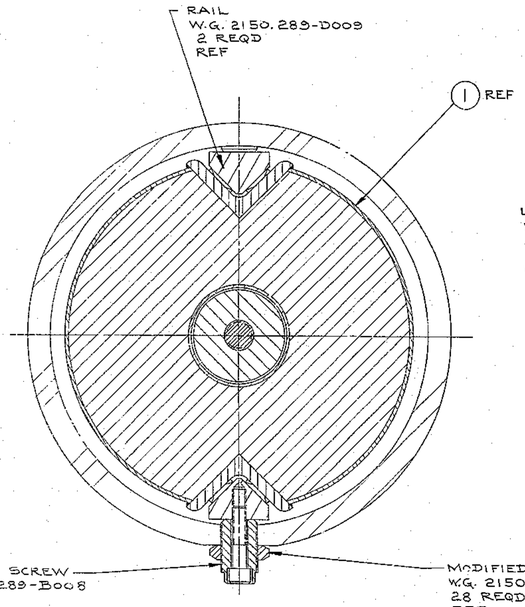
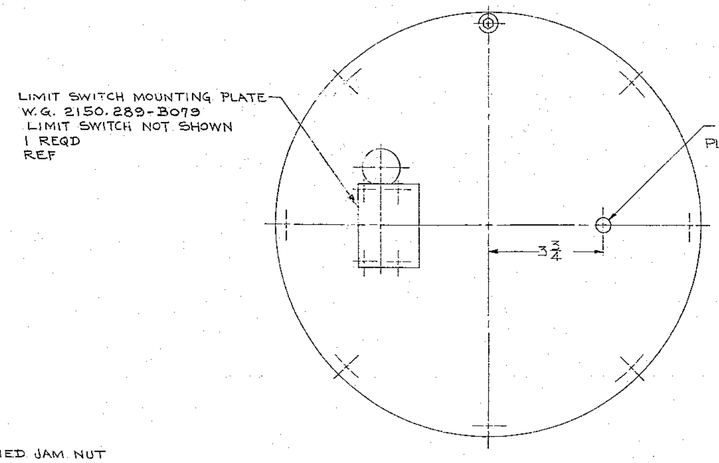
BILL OF MATERIAL

AURA DWG NO.	ITEM	QTY.	MATERIAL	DESCRIPTION	WEIGHT
2150.289-D020	1	1		DEC. AXIS COUNTERWEIGHT ASSY	
	2	4	STEEL	3/8-16 x 1 LG HEX HD BOLT	
	3	4	STEEL	3/8 LOCKWASHER	





SECTION **A-A**



VIEW **B-B**

Rework Instruction

1.) Remove the 2150.289-E003 Wgt., 2150.289-D009 Rails, 2150.289-D006 End Plate, & 2150.289-E004 Mounting Plate.

2.) Check both rails for straightness and finish of bearing surfaces in accordance with the dwg. requirements.

3.) Place the rails in position on the 2150.289-D021 Wgt., record the distance between them at the different attach points along their entire length, and find the mean distance.

4.) Using the data obtained in step 3 above and working from the 12.745 machined I.D. of the tube, install one of the two rails concentric to the ℄ of this I.D. within .010TIR and parallel to the ℄ within .030 over its entire length.

5.) Place the tube in a horizontal position with the installed rail at the bottom. Place the other rail at the top and backed off against the inner surface of the tube wall. Do not tighten.

6.) Place the 2150.289-D021 Wgt. into the tube with its entire wgt. bearing on the bottom rail. Adjust the upper rail for zero clearance between it and the 2150.289-B022 pads over the entire length of travel for the weight.

7.) Remove 2150.289-C010 Nut from 2150.289-E003 Wgt. and install onto 2150.289-D021 Wgt. with four 3/8-16 Bolts. Tighten bolts only until light contact is made against nut.

8.) Reassemble drive assembly to the wgt., drive wgt. to drive motor end of tube, and tighten the four 2150.289-C010 Nut bolts.

9.) Check operation of wgt. over its total length of travel.

10.) Drill 1/2 dia. hole in 2150.289-D006 end plate as shown in view "B-B".

11.) Reassemble remaining details.

5-BREAK SHARP EDGES

4-IDENTIFY BY _____ AT LOCATION 4 , "AURA INC. MADE IN U.S.A."

~~3-STAMP MATCH MARKS ON ALL MATING PARTS WHERE NECESSARY.~~

2-PROJECT DRAWINGS

1-FOR NEXT ASSY. SEE 2150.280-E002

NOTES-

LET.	REVISION	ECR	DATE	BY

TOLERANCES UNLESS OTHERWISE NOTED
DECIMAL DIMENSIONS .000=±.010 .0000=±.005
FRACTIONAL DIMENSIONS UP TO 18" ± 1/64 18" TO 30" ± 1/32 30" & OVER ± 1/16
ANGLES ± 0°-30'
ALL SURFACES 125 TO HAVE FINISH UNLESS OTHERWISE NOTED

KITT PEAK NATIONAL OBSERVATORY
OPERATED BY THE ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY, INC. UNDER CONTRACT WITH NATIONAL SCIENCE FOUNDATION

150 INCH STELLAR TELESCOPE

REF FILE 1173

NAME: REWORK - DECLINATION AXIS COUNTERWEIGHT ASSEMBLY

SCALE 1/2

PRINT ISSUED

DESIGNED BY	DATE	APPROVED BY	DATE
DRAWN	11/71		
DRAWN BY	DATE	APPROVED BY	DATE
DRAWN	11/71		
CHECKED BY	DATE	APPROVED BY	DATE

DRAWING NUMBER 2150.289-E024 REV.

6/71 DIETERICH/POST CLEARPRINT 2020