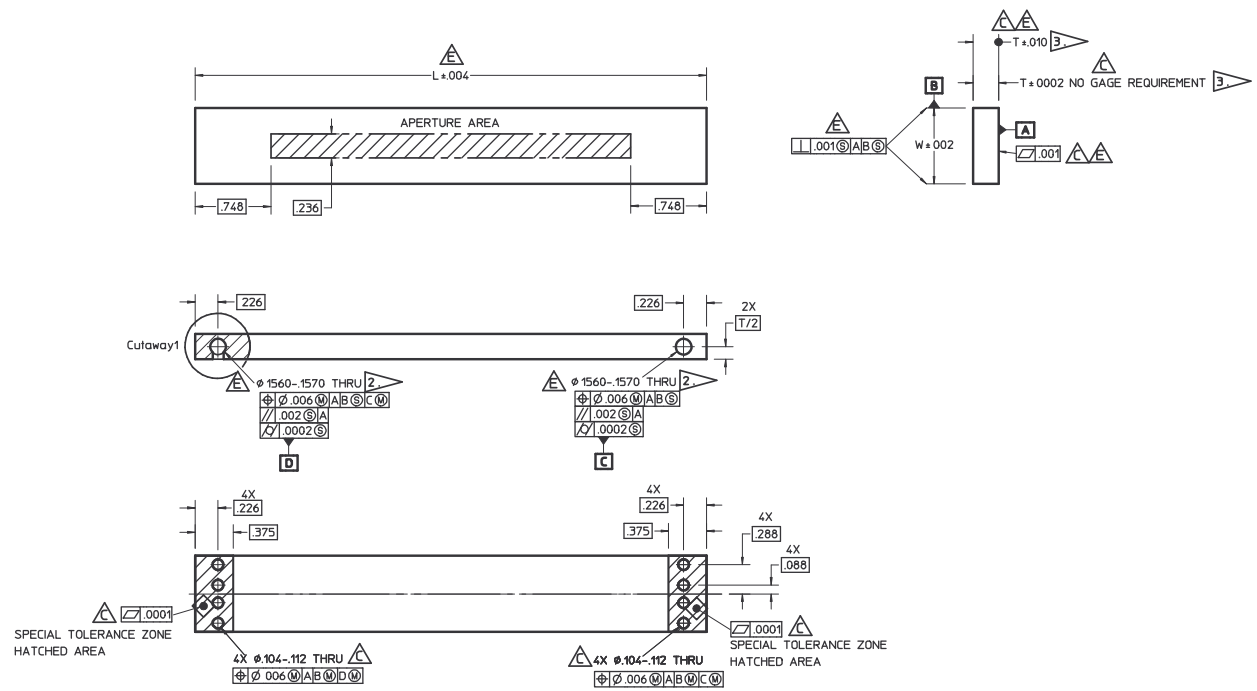

APERTURE AREA SPECIAL TOLERANCES
SLOPE TOLERANCE = <1 micro-radian
ROUGHNESS TOLERANCE = < 5 angstrom

NOTES:

1 THIS IS AN ULTRA-HIGH VACUUM COMPONENT.

2. THESE HOLES ARE TO BE LOCATION CLEARANCE FIT #1 WITH GLIDCOP MIRROR INSERT PIN 25Q3341A. OKAY TO NICKEL PLATE ALL SURFACES.

3 FEATURE-OF-SIZE DIMENSION "T"±.010 MIRROR REFLECTIVE SURFACE LOCATION IS THE FIRST REQUIREMENT. "T"±.0002 IS THE SECOND REQUIREMENT WHICH CHECKS THE ONE-PART-IN-A-THOUSAND RMS THICKNESS CONDITION AND IS TO BE MEASURED WITH A MICROMETER ONLY. NO GAGE IS REQUIRED FOR EITHER MEASUREMENT AT THE MAXIMUM MATERIAL CONDITION.

PART NO	"L"	"T"	"W"	CFF	TYPE	Qty
25Q3333-3	5 039"(128mm)	.250"	.750"	8"	BOLTED	

REV	AUTHOR	APPROVER	DATE	CHANGE DESCRIPTION
E	KDF	KDF	8-04	CHANGED TOLERANCES, NOTES AND FLAGS
D	KDF	KDF	8-04	REMOVED EXTRA NOTE 2 & 3 FLAGS
C	KDF	KDF	8-04	REMOVED Vs, ADDED SPECIAL TOLERANCE ZONES, CHANGED TOLERANCES & NOTES
B	KDF	KDF	8-04	GENERAL REVISION
A	KDF	KDF	8-04	INITIAL REVISION

UNLESS OTHERWISE SPECIFIED
TOLERANCES: X±.- .XX±.-- .XXX± ---
FRACTIONS ± -/--
ANGLES: ± -.-°/INCH
MACH. SURFS.. 125√ ON BOLTED
REF:ASME Y14.5M-1994, THREADS ARE CLASS 2
BREAK EDGES .016 MAX. ON MACHINED WORK
REMOVE BURRS, WELD SPLATTER & LOOSE SCALE

REQD	ITEM	PART NO.	DESCRIPTION

PROJECT NAME: Advanced Light Source
UNIQUE NUMBER: NONE
DO NOT SCALE PRINT
SCALE: 2 : 1
CAGE CODE: AL4060
THIRD ANGLE PROJECTION

ERNEST ORLANDO LAWRENCE
BERKELEY NATIONAL LABORATORY
UNIVERSITY OF CALIFORNIA

ALS
BL8 0 2 - GENERAL
GLIDCOP MIRROR SUBSTRATE

SHEET 1 OF 1 | SIZE D | DWG NO: 25Q333 | REV E