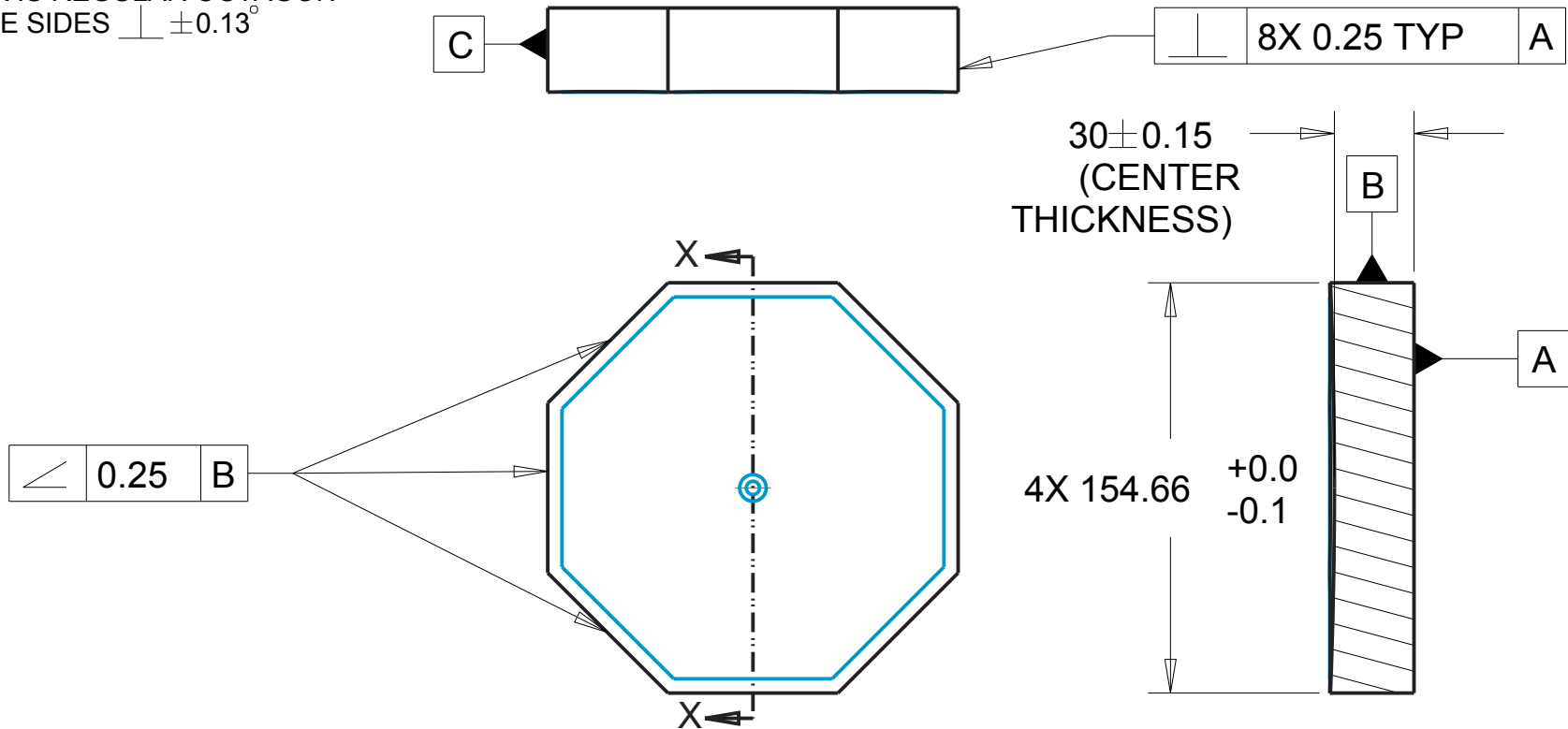


FORM FACTOR NOTES:
1. MATERIAL: CORNING ULE MIRROR GRADE.
2. ALL DIMENSIONS IN MM.
3. ALL EDGES CHAMFERED 0.5 MM X 45° .
4. FORM FACTOR IS REGULAR OCTAGON WITH OPPOSITE SIDES $\perp \pm 0.13^\circ$

FINISH:SEE NOTES

QUANTITY: TBD



SECTION X-X

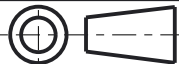
UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
TOLERANCES:
ANGULAR: MACH: $\pm 0.5^\circ$ BEND: $\pm 0.5^\circ$
ONE PLACE DECIMAL: ± 0.1
TWO PLACE DECIMAL: ± 0.05

DESC:
ESIS primary mirror, flight grade.

TITLE:
PRIMARY_FLIGHT

MATL:SEE NOTE 1

SIZE:
A



DWG. NO:1 OF1

REV:
D

MDL.BY:COURRIER

SCALE:0.375

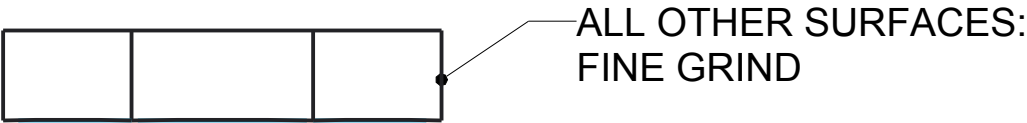
DATE:Sept-20-16

SHEET:1 OF2

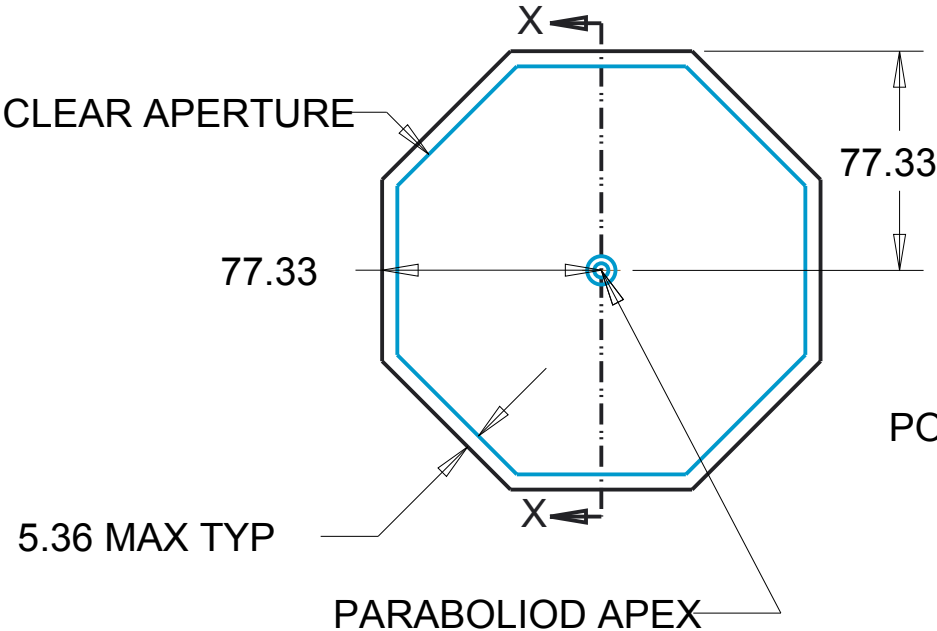
- SURFACE FINISH NOTES:
- 1. MATERIAL: CORNING ULE MIRROR GRADE.
 - 2. RMS slope error <1 μ rad
integration length = 4.0 mm
spatial sampling resolution =2.0 mm
 - 3. RMS ripple <2.5 nm
spatial periods 0.06-6.0 mm
 - 4. RMS surface roughness <1 nm
spatial periods 1.6-70 μ m
 - 5. R1/R2 WEDGE LESS THAN 0.1 MM TIR.
 - 6. Mark location of paraboloid apex with
etched annulus, OD =10 mm, ID =5 mm.

FINISH:SEE NOTES

QUANTITY: TBD



SURF. 2
SHOP POLISH



SURF. 1
POLISH PER
NOTES

	0.3	B	C
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SECTION X-X

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
TOLERANCES:
ANGULAR: MACH:±0.5° BEND:±0.5°
ONE PLACE DECIMAL: ±0.1
TWO PLACE DECIMAL: ±0.05

DESC:
ESIS primary mirror, flight grade.

TITLE:
PRIMARY_FLIGHT

SURF.	TYPE	RADIUS	RAD.TOL	CA.WIDTH
1	PARABOLIC K=-1	-2000	±4	143.94
2	PLANO	INF	NA	NA

MATL:SEE NOTE 1

MDL.BY:COURRIER

SIZE: A		DWG. NO:1 OF1	REV: D
SCALE:0.375	DATE:Sept-20-16	SHEET:2 OF2	