

NOTES: UNLESS OTHERWISE SPECIFIED

1. -OA1- IS THE THEORETICAL OPTIC AXIS OF THE FIRST OPTIC SURFACE.
2. -OA2- IS THE THEORETICAL OPTIC AXIS OF THE SECOND OPTIC SURFACE.
3. ASPHERIC SURFACES ARE DEFINED BY:

$$z(r) = \frac{r^2/R_c}{1 + \sqrt{1 - (1 + K)(r/R_c)^2}} + \sum_i A_{2i}r^{2i}$$

WHERE: r = RADIAL DISTANCE FROM VERTEX IN mm

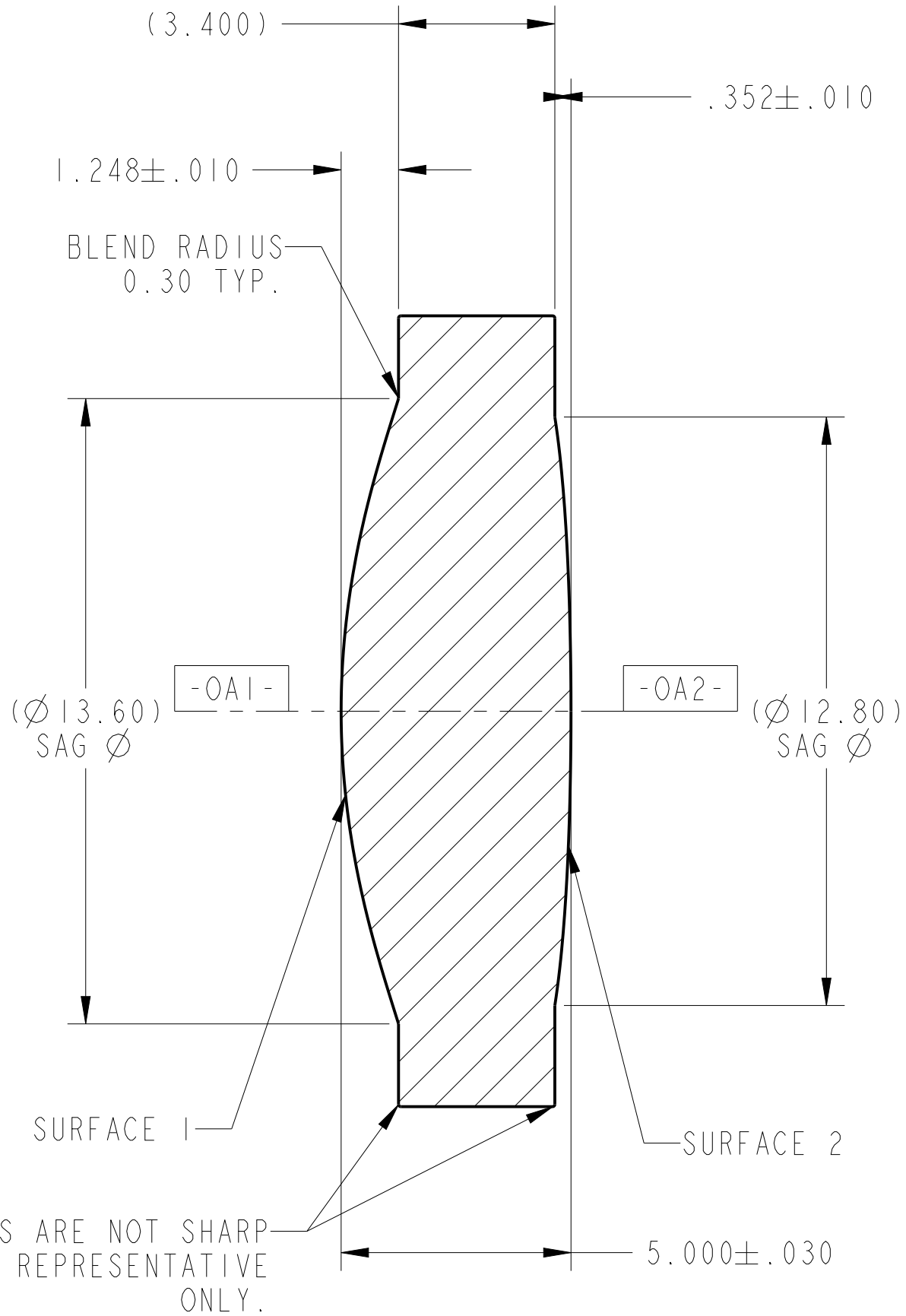
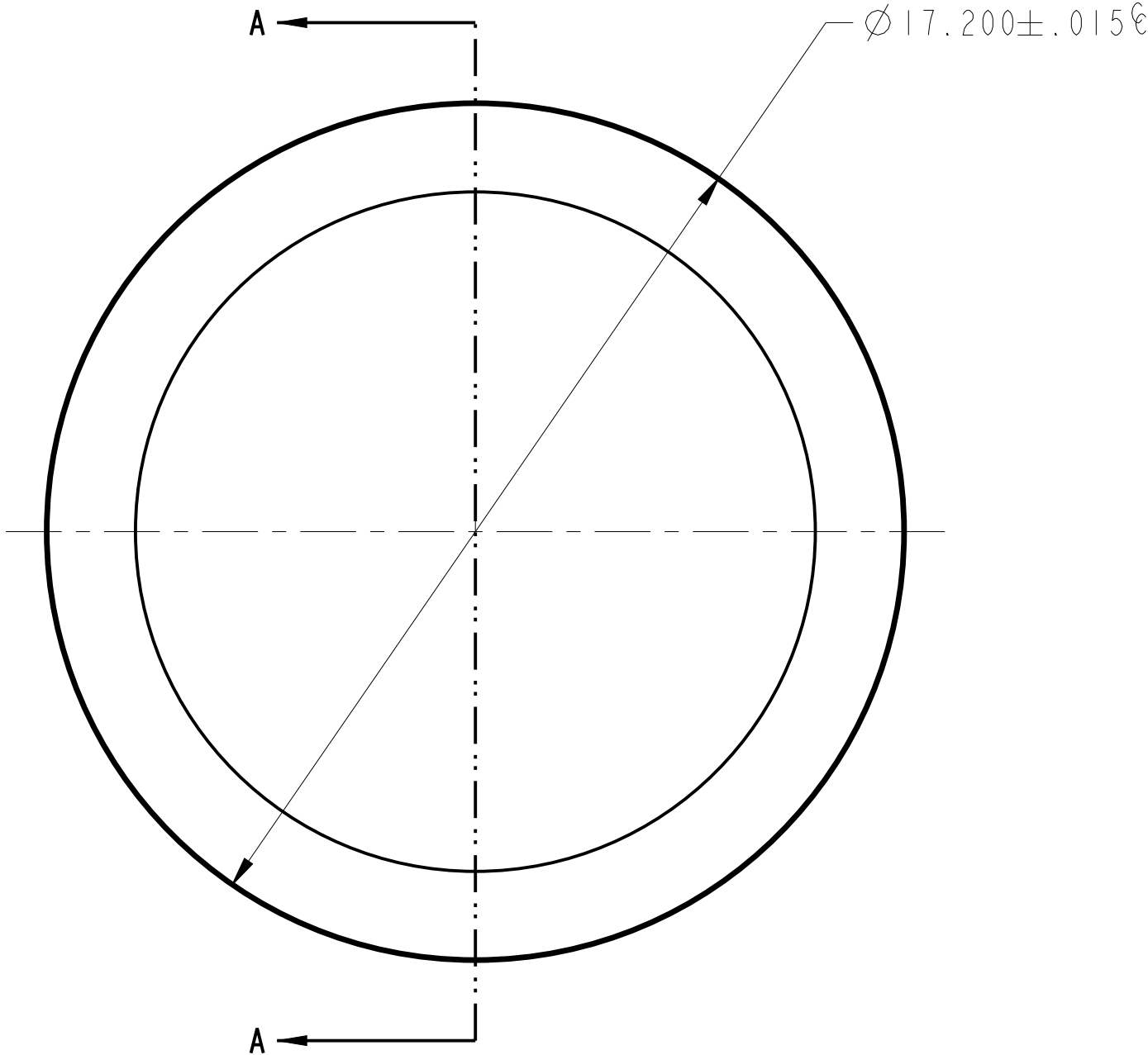
4. SURFACE DEFINITIONS:

	SURFACE 1	SURFACE 2
TYPE	ASPHERE	ASPHERE
SHAPE	CX	CX
CA	Ø13.03	Ø12.28
R _C	17.175000	-80.000000
K	-1.000000	-1.000000
A ₂	0.000000E0	0.000000E0
A ₄	-2.365950E-5	-3.948970E-5
A ₆	-1.754940E-7	-4.081360E-8
A ₈	-4.817880E-9	-1.139540E-8
A ₁₀	-3.677110E-11	4.862320E-11
A ₁₂	0.000000E0	0.000000E0
A ₁₄	0.000000E0	0.000000E0
A ₁₆	0.000000E0	0.000000E0

5. NOMINAL DESIGN PARAMETERS:

DESIGN WAVELENGTH	945nm
W.D.	22.1mm
N.A.	0.3
E.F.L.	25.0mm ± 1.0%

6. FEATURES IDENTIFIED AS Ⓢ ARE CRITICAL CHARACTERISTICS. CRITICAL CHARACTERISTICS ARE GUARANTEED IN PRODUCTION.
7. THIS ELEMENT MUST MEET THE SCRATCH/DIG REQUIREMENTS ACROSS THE FULL CLEAR APERTURES INDICATED, BOTH SIDES, PER LIGHTPATH PWI INS-8.2-05P6.Ⓢ
-00: S/D: 40/20
8. THIS ELEMENT IS USED AS A COLLIMATING LENS. WAVEFRONT ERROR: <0.20 WAVES RMS @ 633.0 nm PER LIGHTPATH PWI INS-8.2-13.Ⓢ



SECTION A-A

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MM. DECIMAL TOLERANCES ARE: .X ± 0.25 .XX ± 0.10 .XXX ± 0.025 .XXXX ± 0.013 ANGLES: ± 0.5°		LightPath 2603 CHALLENGER TECH CT. SUITE 100 ORLANDO, FL 32826		PROPRIETARY INFORMATION THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF LIGHTPATH TECHNOLOGIES AND IS NOT TO BE DISCLOSED OR REPRODUCED IN WHOLE OR PART, OR USED FOR MANUFACTURING FOR ANYONE OTHER THAN LIGHTPATH TECHNOLOGIES WITHOUT ITS WRITTEN CONSENT. NO RIGHT IS GRANTED TO DISCLOSE OR USE ANY INFORMATION CONTAINED IN SAID DOCUMENT.	
DRAWN PS\ORL		TITLE LENS CODE 354068			
MATERIAL D-ZK3(m)		SIZE A2	DWG NO 0354068		REV A
SOFTWARE Pro/ENGINEER		SCALE: 8.00	THIRD ANGLE PROJECTION 		SHEET 1 OF 1