

NOTES: UNLESS OTHERWISE SPECIFIED

1. -OAI- IS THE THEORETICAL OPTIC AXIS OF THE FIRST OPTIC SURFACE.
2. 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: Y= RADIAL DISTANCE FROM VERTEX IN mm

3. SURFACE DEFINITIONS:

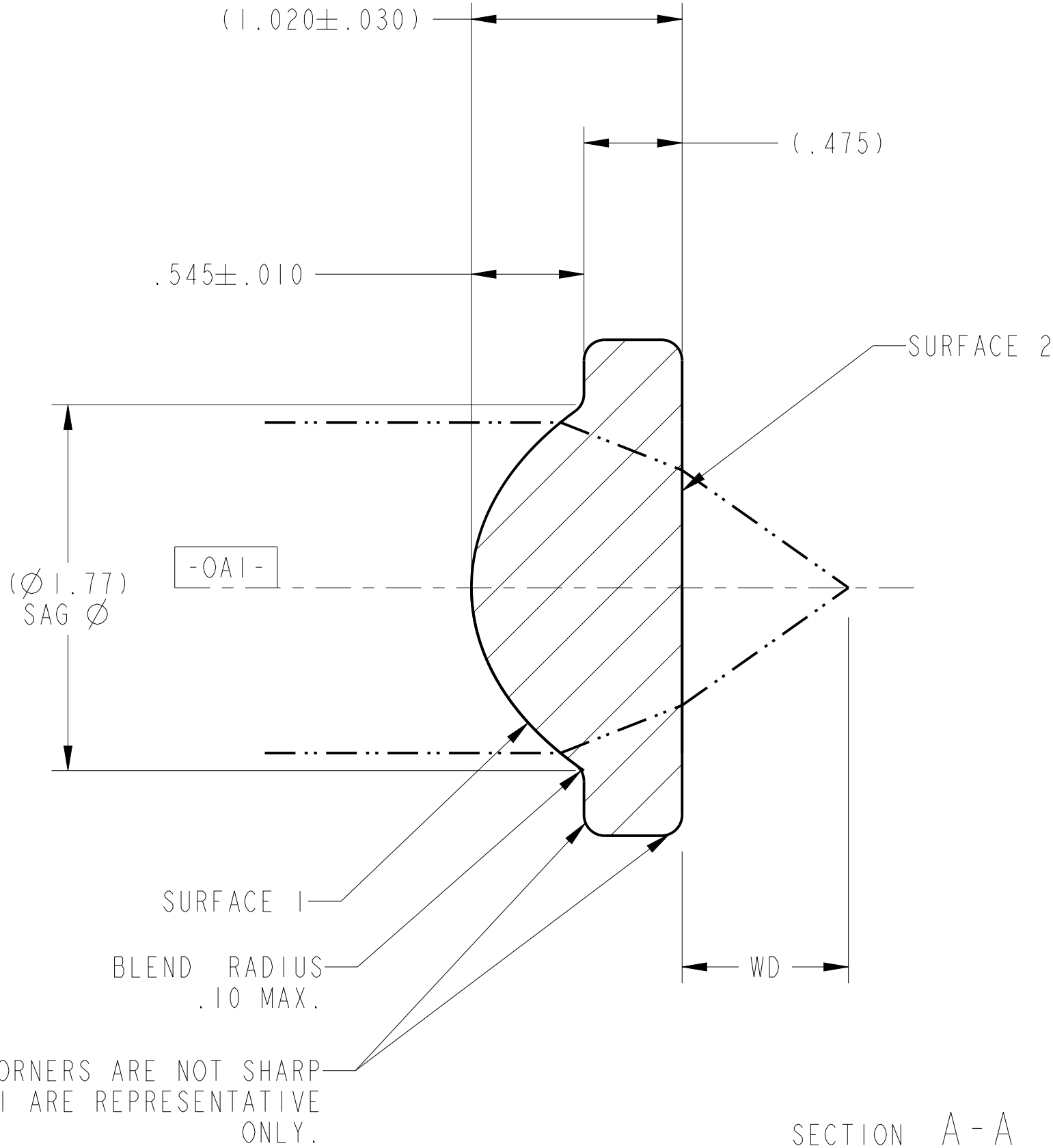
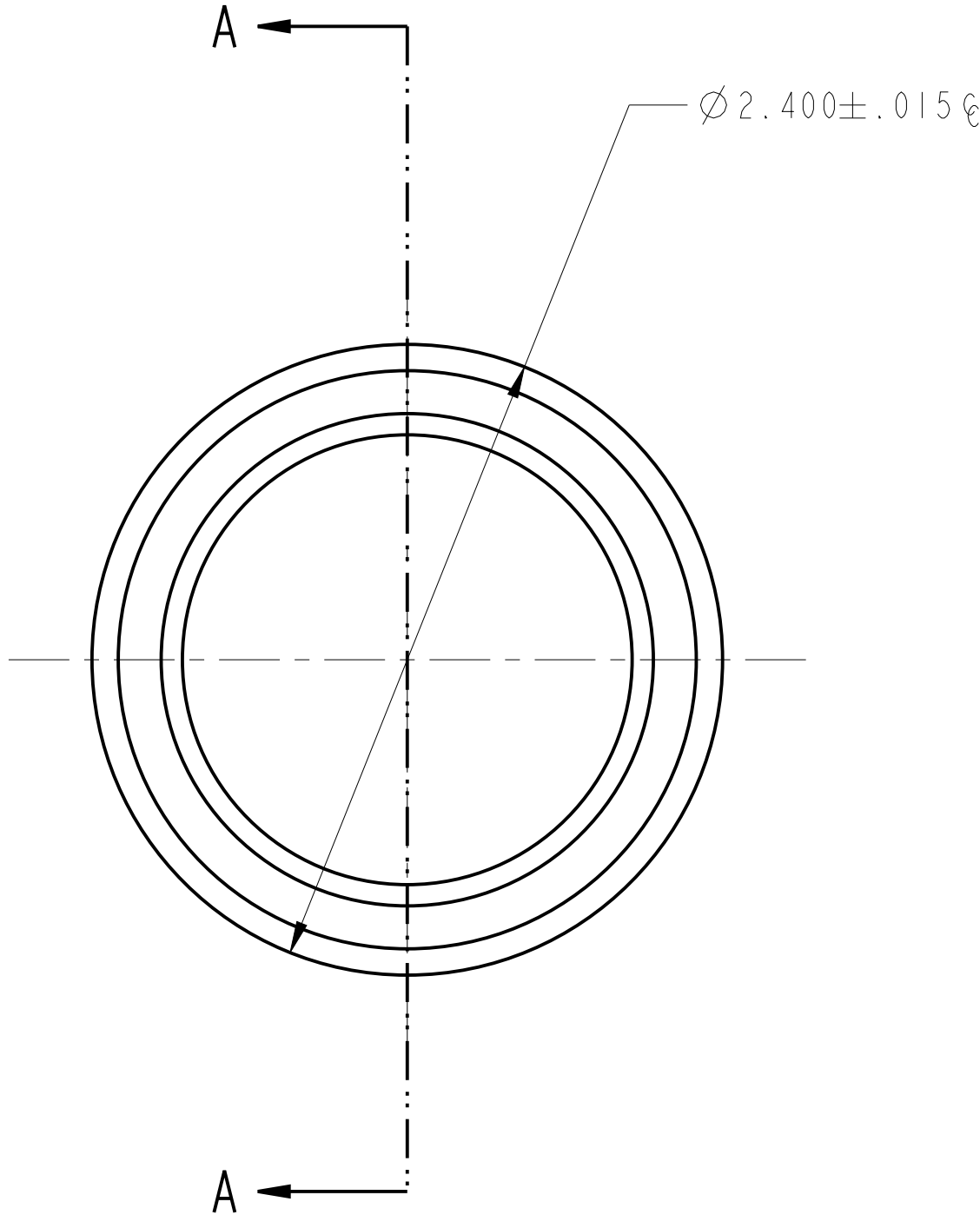
	SURFACE 1	SURFACE 2
TYPE	ASPHERE	PLANO
SHAPE	CX	PL
CA	Ø 1.60	Ø 1.14
R _C	0.840660	PLANO
K	-0.963070	0.000000
A ₂	0.000000E0	0.000000E0
A ₄	9.476566E-2	0.000000E0
A ₆	2.790461E-2	0.000000E0
A ₈	5.415580E-3	0.000000E0
A ₁₀	3.553653E-3	0.000000E0
A ₁₂	-3.518929E-3	0.000000E0
A ₁₄	0.000000E0	0.000000E0
A ₁₆	0.000000E0	0.000000E0

4. NOMINAL DESIGN PARAMETERS.

DESIGN WAVELENGTH	780 nm
W.D.	0.8 mm
N.A.	0.6
E.F.L.	1.5mm ± 1.0%

5. FEATURES IDENTIFIED AS Ⓢ ARE CRITICAL CHARACTERISTICS. CRITICAL CHARACTERISTICS ARE GUARANTEED IN PRODUCTION.
6. 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
7. THIS ELEMENT IS USED AS A COLLIMATING LENS.
WAVEFRONT ERROR: @ 100% APERTURE < 0.080 WAVES RMS @ 632.8nm;
@ 50% APERTURE < 0.270 WAVES P-V
PER LIGHTPATH PWI INS-8.2-03.Ⓢ

REVISION HISTORY				
REV	ECN	DESCRIPTION	DATE	INITIALS
A	2319	INITIAL RELEASE	02/22/10	ASYMMONS
B	4369	UPDATED FORMAT	12/09/15	PL



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 TECHNOLOGIES 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 ASYMMONS\ORL		TITLE LENS CODE 354140			
MATERIAL D-ZK3(m)		SIZE A2	DWG NO 0354140		REV B
SOFTWARE Pro/ENGINEER		SCALE: 40.00	THIRD ANGLE PROJECTION 		SHEET 1 OF 1