

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	Ø0.43	Ø0.58
R _C	0.239297	-0.694851
K	-1.00	-1.00
A ₂	0.000000E0	0.000000E0
A ₄	-3.812980E1	1.614280E0
A ₆	9.590900E2	-1.303740E1
A ₈	-1.710660E4	4.142680E0
A ₁₀	1.709380E5	4.651260E3
A ₁₂	-3.492220E5	-5.646800E4
A ₁₄	-1.045890E7	1.764040E5
A ₁₆	7.830260E7	1.319600E5

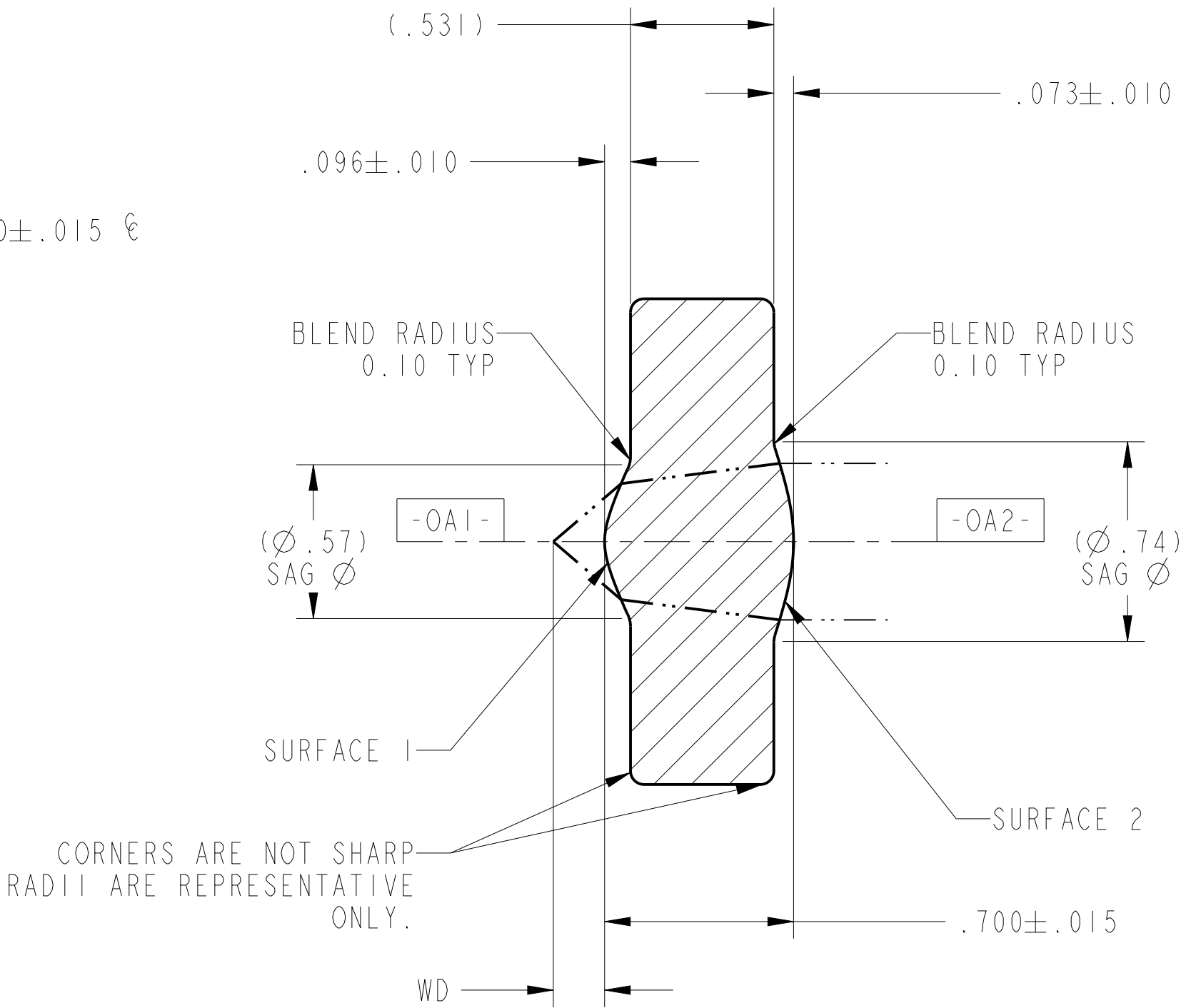
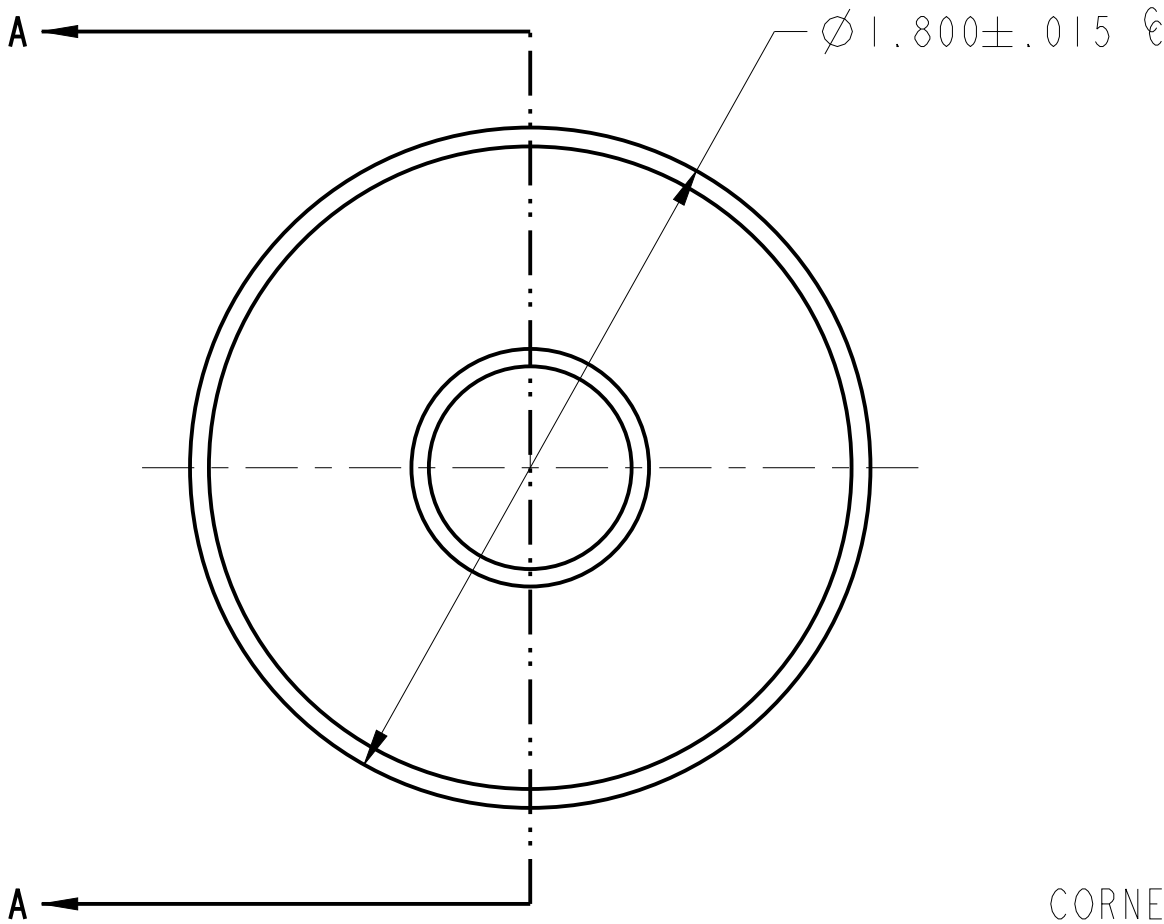
5. NOMINAL DESIGN PARAMETERS:

DESIGN WAVELENGTH	1310nm
W.D.	0.19mm
N.A.	0.65
E.F.L.	0.3mm

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: @100% APERTURE <0.150 WAVES RMS @632.8 nm. PER LIGHTPATH PWI INS-8.2-13.Ⓢ

	RADIUS ERROR	IRREGULARITY	CENTRATION TO OD	TILT TO OD
S1	±0.002 mm	< 316.5 nm PV < 105.5 nm RMS	< 0.007 mm	< 0.6 mrad
S2	±0.011 mm			

REVISION HISTORY				
REV	DCO	DESCRIPTION	DATE	INITIALS
A	5448	INITIAL RELEASE	06/28/18	JC
B	5839	ADDED NOTE RMS < 0.150 @ 632.8 nm	06/24/19	PS



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 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 JC\ORL		TITLE LENS CODE 355089			
MATERIAL D-ZLαF52LA(m)		SIZE A2	DWG NO 0355089		REV B
SOFTWARE Pro/ENGINEER		SCALE: 50.00	THIRD ANGLE PROJECTION 		SHEET 1 OF 1