

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: r = RADIAL DISTANCE FROM VERTEX IN mm

- ### 3. SURFACE DEFINITIONS:

	SURFACE 1	SURFACE 2
TYPE	ASPHERE	PLANO
SHAPE	CX	PL
CA	$\emptyset 5.00$	$\emptyset 4.11$
R_C	6.520170	PLANO
K	0.281917	0.000000
A_2	0.000000E0	0.000000E0
A_4	-9.763744E-4	0.000000E0
A_6	-1.439979E-5	0.000000E0
A_8	0.000000E0	0.000000E0
A_{10}	0.000000E0	0.000000E0
A_{12}	0.000000E0	0.000000E0
A_{14}	0.000000E0	0.000000E0
A_{16}	0.000000E0	0.000000E0

- #### 4. NOMINAL DESIGN PARAMETERS:

DESIGN WAVELENGTH	2500nm
W.D.	3.05mm
N.A.	0.56
E.F.L.	4.0mm

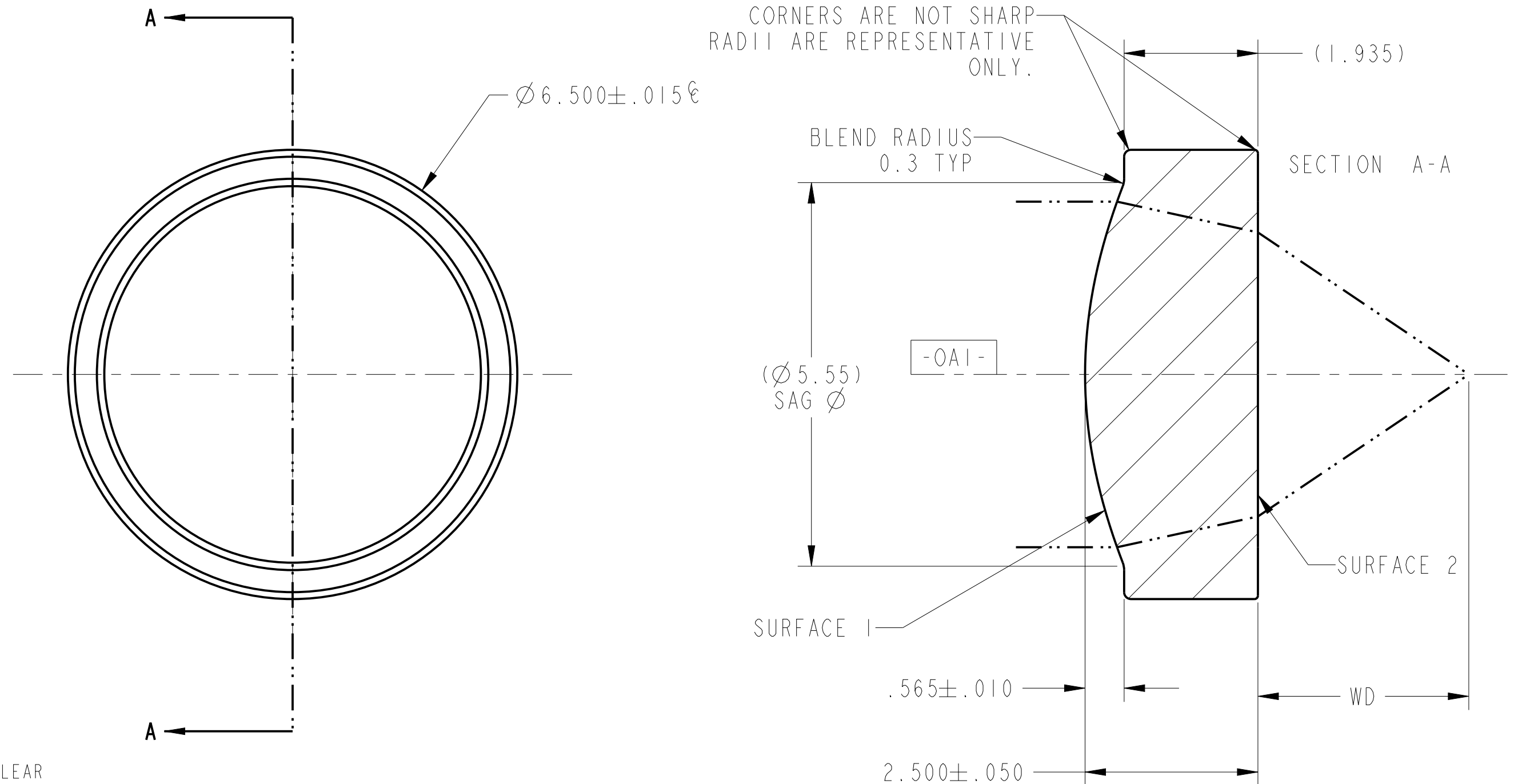
5. FEATURES IDENTIFIED AS C ARE CRITICAL CHARACTERISTICS.
CRITICAL CHARACTERISTICS ARE GUARANTEED IN PRODUCTION.

6. THIS ELEMENT MUST MEET THE SCRATCH/DIG REQUIREMENTS ACROSS THE FULL CLEAR APERTURES INDICATED, BOTH SIDES, PER LIGHTPATH PWI INS-8.2-05P6.6
-00: S/D: 80/50, DEFECTS <10 MICRONS ARE IGNORED.

7 SET BY TOLERANCES OF PRESS TOOLING. SPECIFICATION NOT MEASURED DIRECTLY.

	RADIUS ERROR	IRREGULARITY	CENTRATION TO OD 7	TILT TO OD 7
S1	± 0.013 mm	< 316.4 nm PV < 105.5 nm RMS	< 0.007 mm	< 0.6 mrad
S2	N/A			

REVISION HISTORY				
REV	DCO	DESCRIPTION	DATE	INITIALS
A	1881	INITIAL RELEASE	11/23/08	ESCHOLZ
B	3042	REDRAWN USING UPDATED PROGRAM	12/21/11	IN
C	3074	CHANGED PREFORM PN TO 0313057	02/01/12	IN
D	3238	CHANGE EFL TO 4.00mm	09/19/12	IN
E	5549	UPDATED DRAWING FORMAT	9/11/18	TH
F	6486	NOTE 6 UPDATE	04/05/21	YK



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°	 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 ESCHOLZ\ORL	TITLE LENS CODE 390036			
MATERIAL BD2 (m)	SIZE A2	DWG NO 0390036	REV F	
SOFTWARE Pro/ENGINEER	SCALE: 16.00	THIRD ANGLE PROJECTION 	SHEET 1 OF 1	