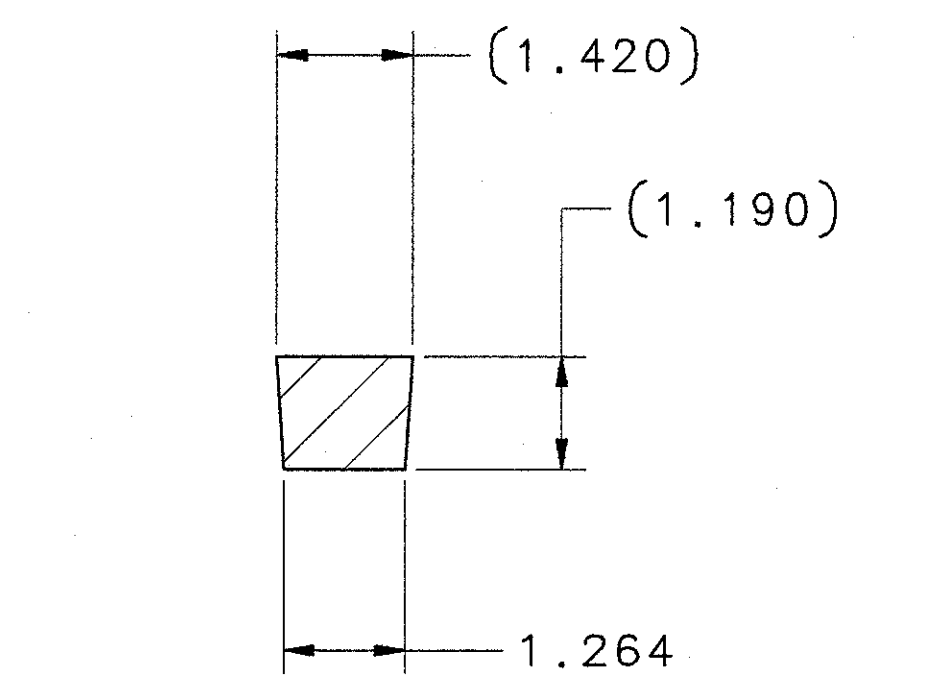
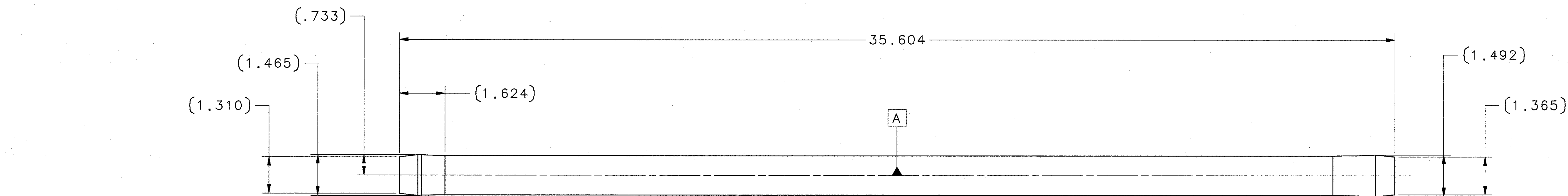
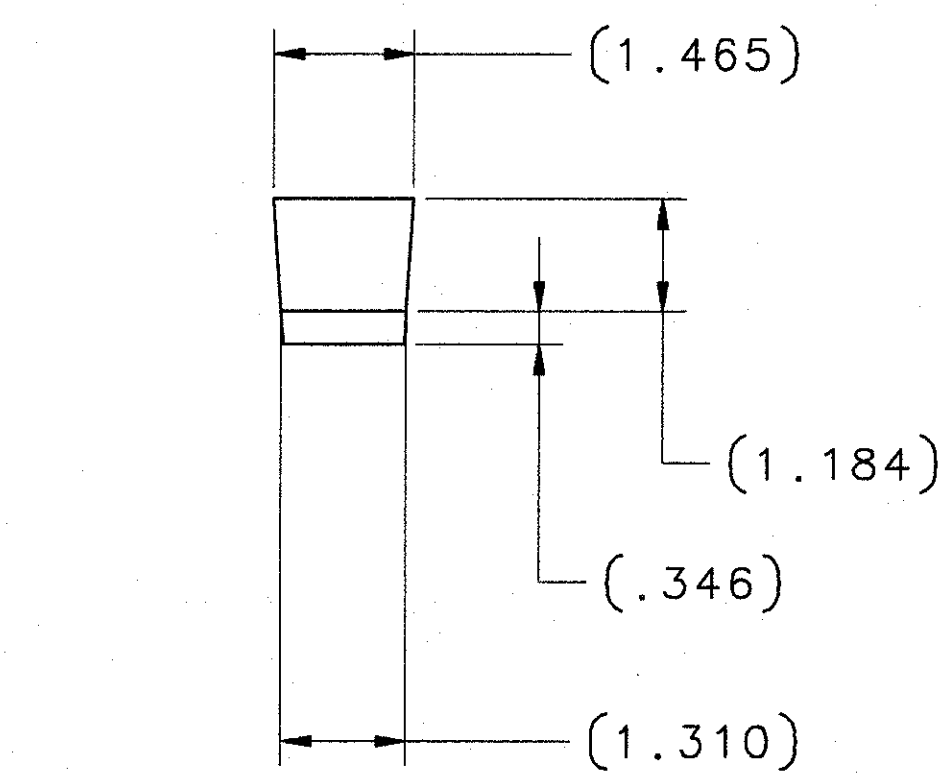


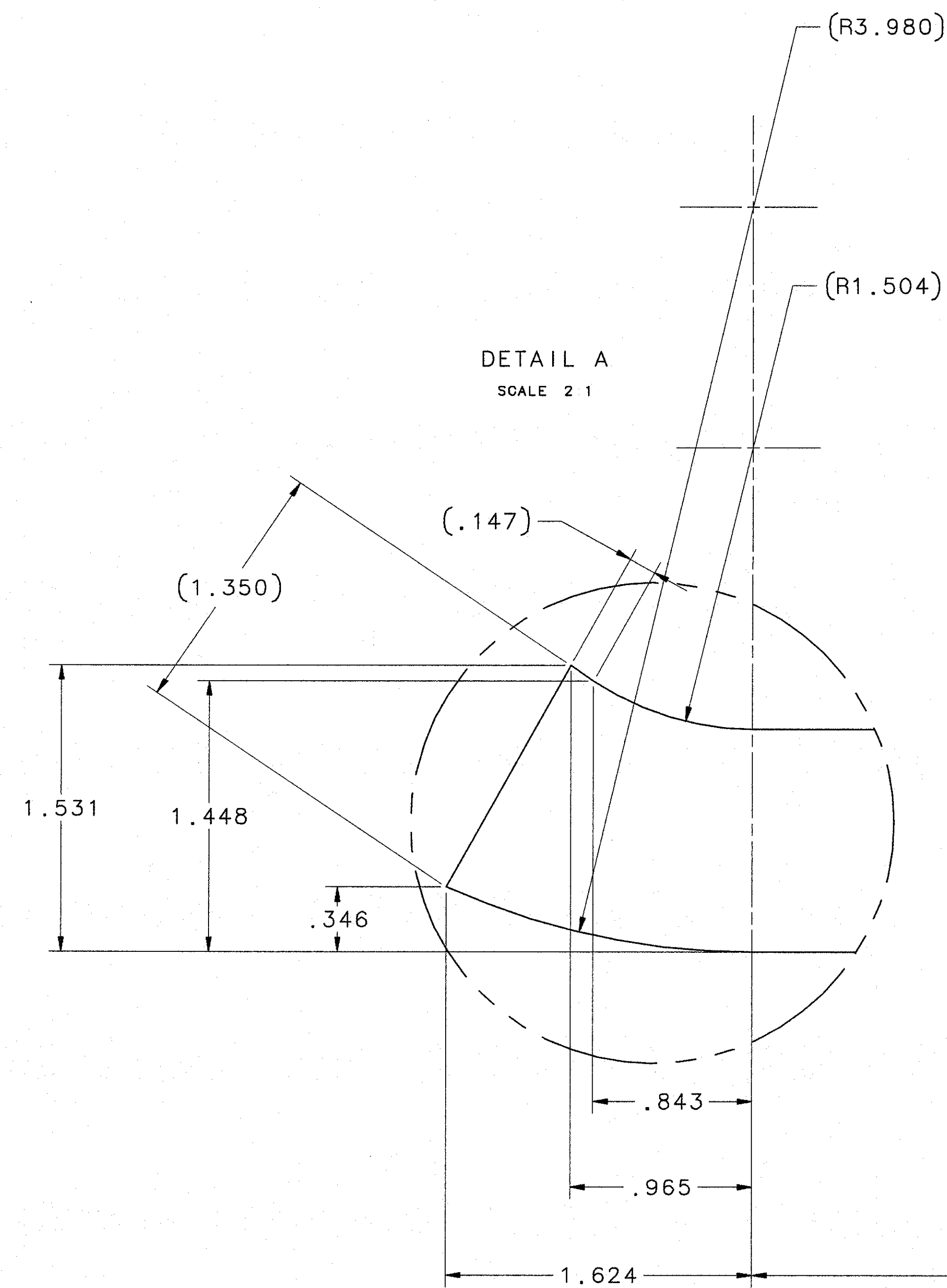
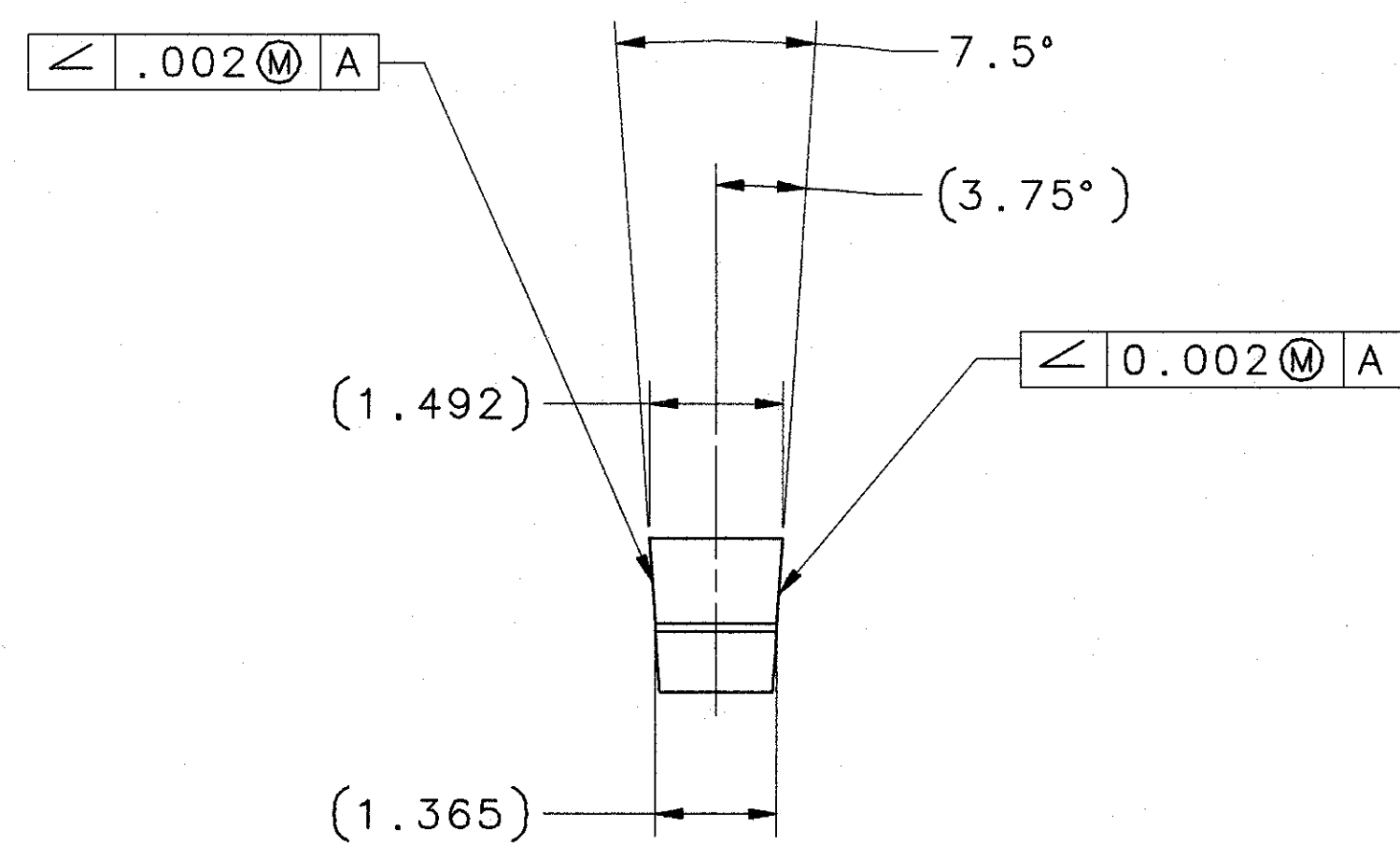
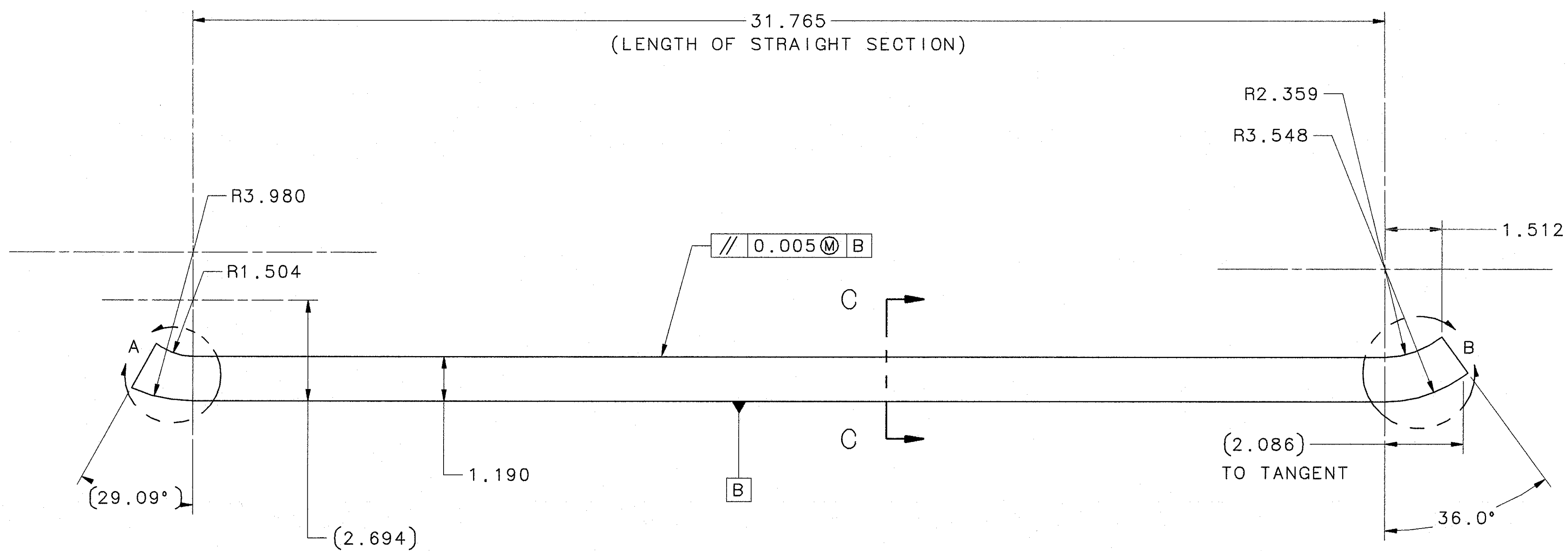
REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
ALL	A	DIMENSIONS REARRANGED FOR CLARITY & CONSISTENCY (WRT B00000-01-04-1402)	2012-03-23 C.L. WIGGINS	<i>[Signature]</i> 3/28/2012
NOTES CORRECTED; TYPOGRAPHICAL ERRORS				



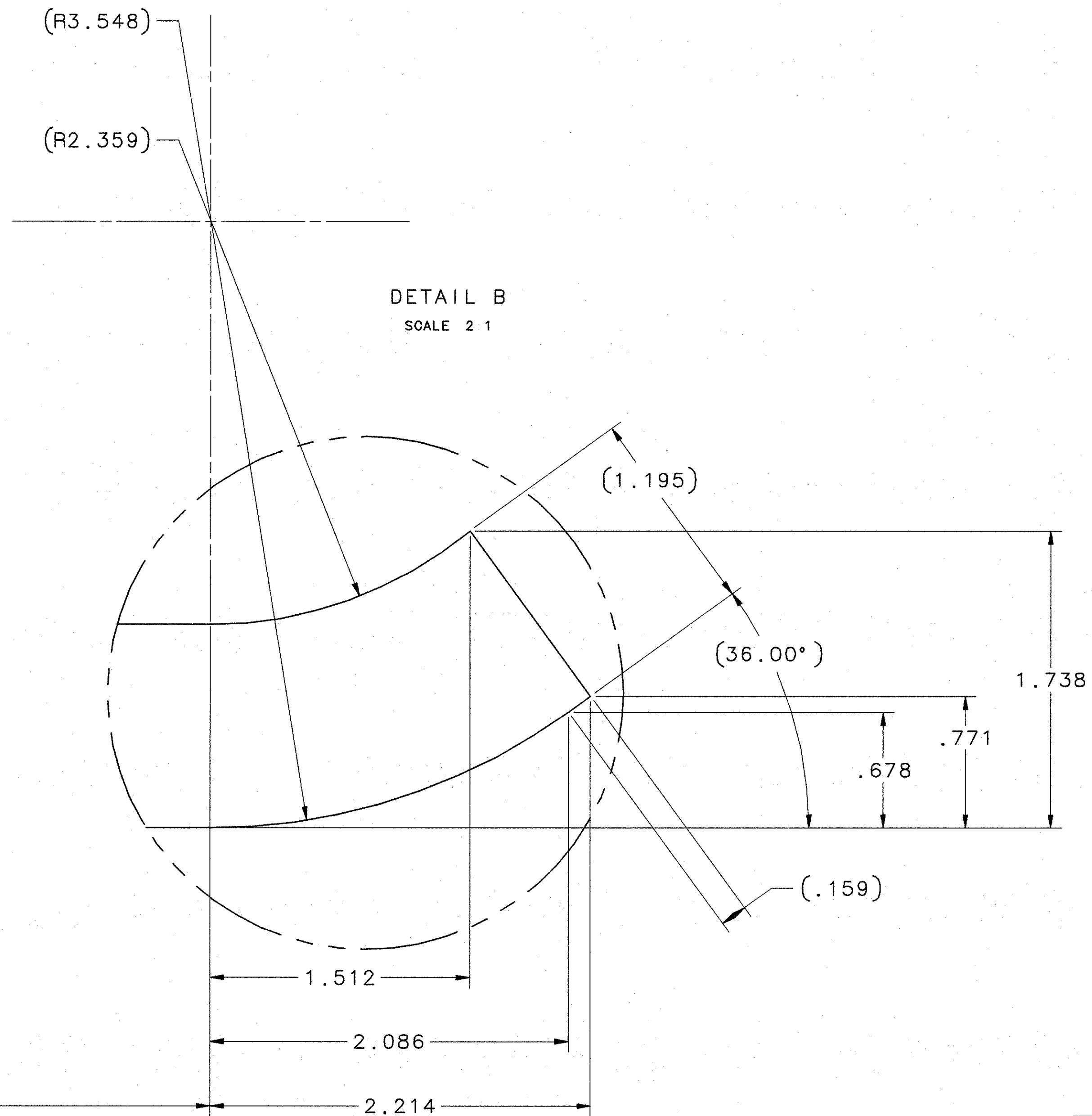
SECTION C-C
(CROSS SECTION ONLY)



(FAR SIDE NOT SHOWN)






DETAIL A
SCALE 2:1



DETAIL B
SCALE 2:1

NOTES:

- 1.) RISE TIME OF MATERIAL MUST BE t_{rise} LESS THAN OR EQUAL TO 0.9ns.
- 2.) DECAY TIME OF SCINTILLATOR BAR MATERIAL MUST BE t_{decay} LESS THAN OR EQUAL TO 2.1ns.
- 3.) REQUIRED SIGNAL PULSE WIDTH (FWHM) MUST BE $\sim 2.5\text{ns}$.
- 4.) WAVELENGTH OF MAX EMISSION MUST BE $\lambda_{\text{max}} \sim 425\text{nm}$.
- 5.) MUST BE POLYVINYLTOLUENE AS BASE MATERIAL. $\rho \sim 1.032\text{gm/cm}^3$
- 6.) INDEX OF REFRACTION $n \sim 1.58$.
- 7.) MATERIAL MUST BE FREE OF VISUAL INCLUSIONS AND AIR BUBBLES.
- 8.) ALL SURFACES TO HAVE OPTICAL (MIRROR) QUALITY FINISH. DIAMOND CUTTING IS PREFERRED.

DOCUMENT CONTROL STAMP		EACH SHEET OF MULTI-SHEET DRAWINGS SHALL ALWAYS HAVE THE SAME REVISION LEVEL.		UNITED STATES Department of Energy	
		DIMENSIONS ARE TO BE SPECIFIED UNLESS OTHERWISE NOTED TOLERANCES ARE IN THOUSITHS OF AN INCH X ± .001 X ± .005 X ± .010 X ± .015		Jefferson Lab Thomas Jefferson National Accelerator Facility	
MATERIAL		THIRD ANGLE PROJECTION		PHY B - CLAS 12 DETECTOR CENTRAL TIME OF FLIGHT (CTOF) SCINTILLATOR; HIGH	
BICRON 408				DRAWN J. QUERRA 2012/03/05 CHECKED D.H. KASHY 2012/03/22 APPROVED D.H. KASHY 2012/03/22	
FINISH MACHINED SURFACES UNLESS OTHERWISE NOTED DO NOT SCALE DRAWING				SIZE DWG NO SCALE 1/2 USED ON ASSY B00000-01-04-1401 SHEET 1 OF 1	