

SIDE VIEW OF FORMED GEOMETRY - INCLINED

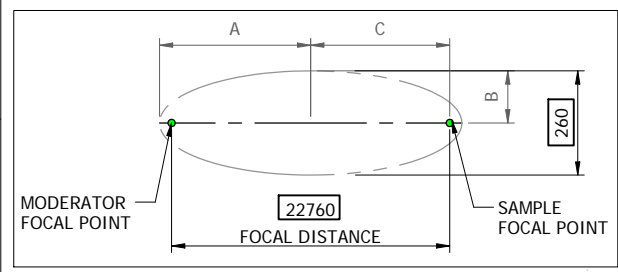
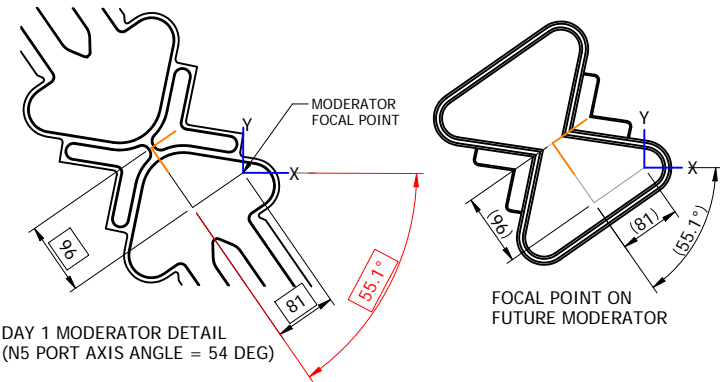
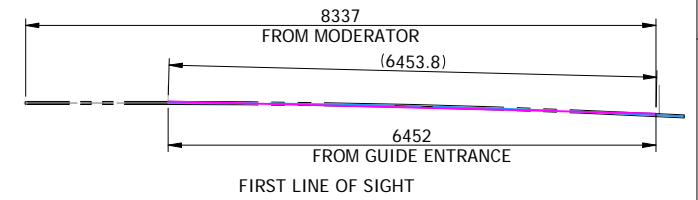


FIGURE 1



DAY 1 MODERATOR DETAIL (N5 PORT AXIS ANGLE = 54 DEG)

FOCAL POINT ON FUTURE MODERATOR

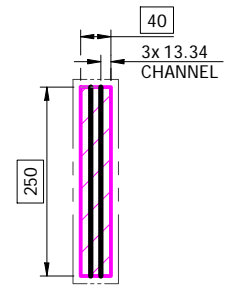


FIRST LINE OF SIGHT

THIS DRAWING SHOWS THE FREIA NEUTRON PATH GEOMETRY

NOTES:

- 1) THE FREIA GEOMETRY HAS ELLIPTICAL TOP/BOTTOM FACES - SIDE WALLS ARE CONSTANT THICKNESS (SEE PATH SECTIONS VIEW)
- 2) THE ELLIPTICAL GEOMETRY IS GENERATED BETWEEN 2 FOCAL POINTS: THE MODERATOR AND THE SAMPLE - SEE FIGURE 1
- 3) GUIDE IS INCLINED 2 DEGREES BELOW FOCAL POINT
- 4) IN PLAN VIEW THE GEOMETRY HAS A MULTI CHANNEL S-BEND TO LOSE LINE OF SIGHT



NEUTRON PATH SECTION THROUGH HIGHEST SECTION OF ELLIPSE

A	09.12.2017	?	JBN			MANUFACTURE ONLY WHEN STATUS IS ISSUED	IN WORK
ISSUE	DATE	MOD. No.	DRAWN BY	CHKD BY	APPD BY	STATUS	STATUS
TOLERANCES UNLESS STATED			MATERIAL & SPEC.			SURFACE TEXTURE UNLESS STATED	
X ± 0.5	ANGLE ± 0.2°	SEE NOTE			√ Ra N/A		
X.X ± 0.3					FINISH		
X.XX ± 0.1					CLEAN REMOVE ALL BURRS		
DIMENSIONS IN mm UNLESS STATED		DRAWING CONFORMS TO BS 8888 TOLERANCING ISO 8015		USED ON			
ISIS DESIGN DIVISION RUTHERFORD APPLETON LABORATORY HARWELL CAMPUS, DIDCOT, OXFORDSHIRE, OX11 0QX				---- ? ?			
TITLE							
FREIA GUIDE SKELETON V5							
FREIA							
A2	SHEET	1 OF 1		JBN-005042		A	