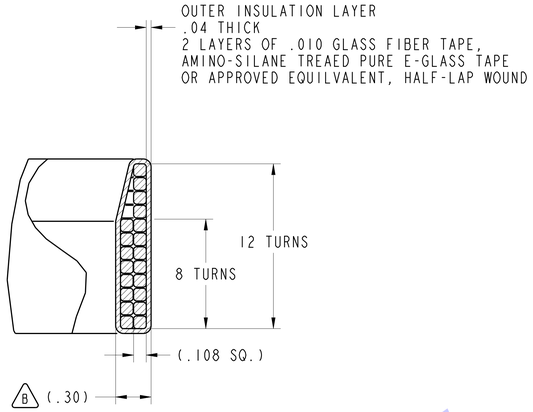
NOTES:

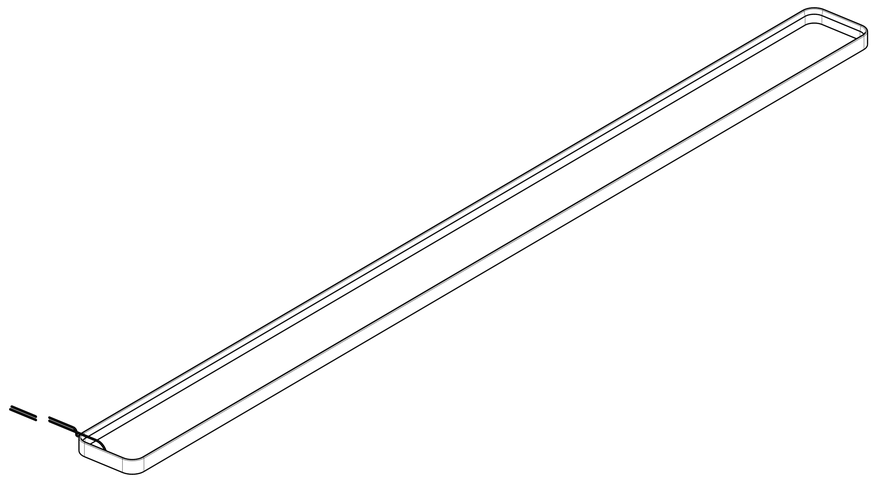
1. SPECIFICATION: REFER TO EIC-MSG-SOW-017 & EIC-MSG-SPC-008 DOCUMENTS FOR COIL SPECIFICATIONS, Q.A, AND MANUFACTURING METHODS.
2. CONDUCTOR IS COPPER AWG SIZE 10 SQUARE, HEAVY BUILD NEMA MW 1000 TYPE 20-C, NATURAL COLOR UNLUBRICATED.
3. COIL SHALL BE WOUND OF A CONTINUOUS CONDUCTOR, NO SPLICES ALONG THE LENGTH OF CONDUCTOR ARE PERMITTED..
4. WIND FOR 8 TURNS INSIDE LAYER, 12 TURNS OUTSIDE LAYER LEAVING A MINIMUM OF 35" AT WINDING ENDS FOR LEADS TO TERMINAL BLOCK.
5. FILLER BLOCKS SHALL BE CUT TO FIT LARGE GAPS, AND SHALL BE MADE OF RADIATION RESISTANT MATERIAL. REFER TO EIC-MSG-SPC-008.
6. ADJUST FOR KEYSTONING TO MEET FINAL DIMENSIONS.

REVISION APPROVALS

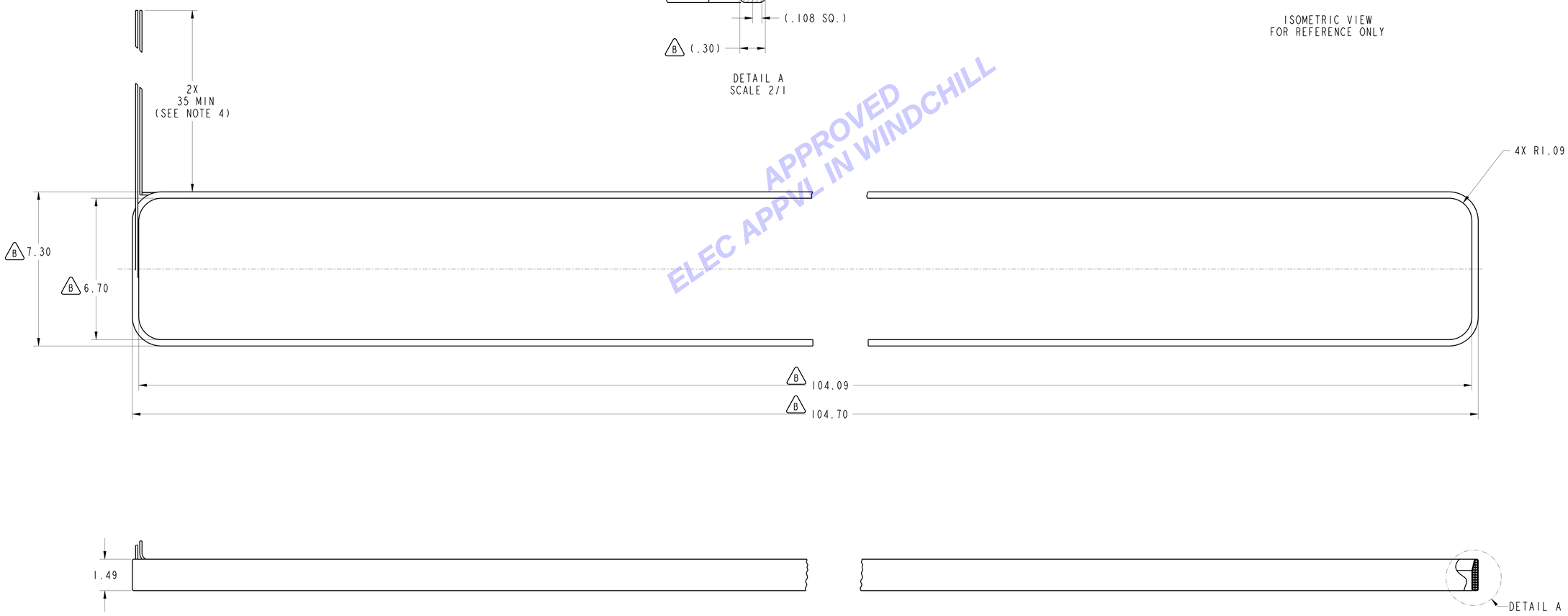
REV	ECN NO.	DESCRIPTION	DATE	BY	CHK	DES	ENG	SUPV
A	EIC-00881	INITIAL RELEASE	1/2025	RL	SN	VD	RL	GM
B	EIC-0761	REDUCED OVERALL LENGTH & UPDATED EXPORT CONTROL NOTE	05/13/26	VC	JK	VD	RL	GM



DETAIL A
SCALE 2/1



ISOMETRIC VIEW
FOR REFERENCE ONLY



APPROVED
ELEC APPVL IN WINDCHILL

ENVELOPE DRAWING

B

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2104M0013	1
USED ON DRAWING NO.	QTY. PER ASS'Y.
APPLICATION	

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.5 2009

UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES
DECIMAL TOLERANCES
X ± .030
XX ± .015
.XXX ± .005
ANGULAR TOLERANCE ±1°

125 FINISH — BREAK SHARP EDGES MAX. .03 MIN. .015

EIC

DRAWN BY	R. LYNCH	1/2025
CHECKED BY	S. NOTARO	1/2025
DESIGN APPROVAL	V. DE MONTE	1/2025
APPROVAL	R. LOVELACE	1/2025
SUPERVISOR APPROVAL	G. MAHLER	1/2025
CEE / CME DIVISION HEAD		
Q.A.		
SAFETY / ASC DEPARTMENT CHAIR		

ELECTRON-ION COLLIDER
BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973

ELECTRON STORAGE RING
ESR D1/D3 DIPOLE MAGNET
TRIM COIL, TOP

SIZE	DRAWING NUMBER:	REV.
E	2104M0022	B

Q.A. CATEGORY	SCALE:	WEIGHT:	SHEET
A3	1/2	23.3	1 OF 1

SHT 1 OF 1 REV B
2104M0022
DWG NO

CREO