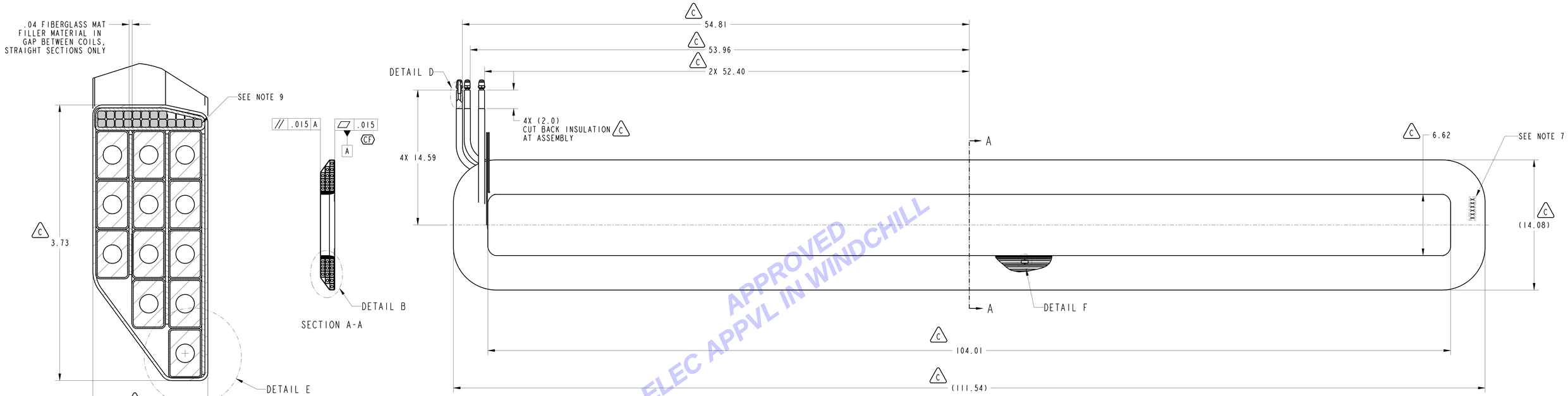
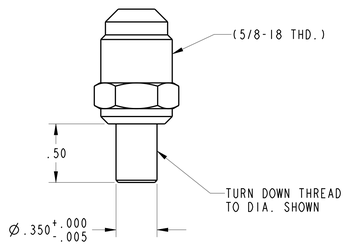
NOTES:

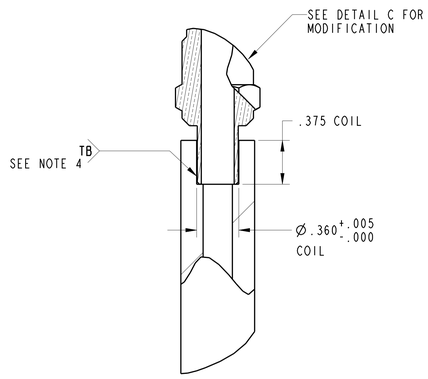
1. SPECIFICATION: REFER TO EIC-MSG-SOW-017 & EIC-MSG-SPC-008 DOCUMENTS FOR COIL SPECIFICATIONS, Q.A, AND MANUFACTURING METHODS.
2. MATERIAL:
   COPPER TUBING PER EIC-MSG-SPC-008.
   AMINO-SILANE TREATED PURE E-GLASS TAPE INSULATION PER SPECIFICATION EIC-MSG-SPC-008.
   ALL FITTINGS SHALL BE BRASS.
3. BRAZE JOINT(S) SHALL BE NO LESS THAN 3" FROM ANY CORNER BEND RADIUS, AND NOT MORE THAN TWO JOINTS PER PANCAKE.
4. BRAZE USING .032-SIL-FOS. SILVER PLATE BARE COPPER SURFACES.
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.
7. MARKING: PAINT OR STENCIL PART WITH DRAWING NUMBER IN ACCORDANCE WITH MIL-STD-130, LOCATE APPROX. AS SHOWN.
8. COIL WINDING WITH OUTER INSULATION LAYER REMOVED FOR CLARITY, SHOWN ON SHEET 2 FOR REFERENCE ONLY.
9. SEE DRAWING 2104M0022 FOR TRIM COIL DETAIL.

REVISION APPROVALS								
REV	ECN NO.	DESCRIPTION	DATE	BY	CHK	DES	ENG	SUPV
A	-	INITIAL RELEASE	-	-	-	-	-	-
B	EIC-01001	REVISED AND REDRAWN	2/2025	RL	SN	VD	RL	GM
C	EIC-0761	OVERALL LENGTH REDUCED & UPDATED EXPORT CONTROL NOTE	05/10/26	VC	JK	VD	RL	GM

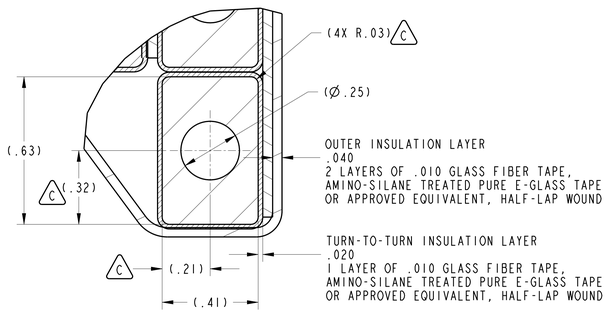




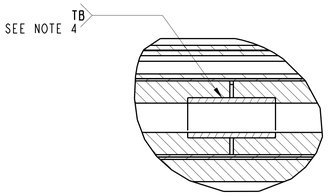
DETAIL C
MODIFIED FITTING
PARKER 42F-6
SCALE 2/1
4X
SEE NOTE 7



DETAIL D
SCALE 2/1
4X



DETAIL E
SCALE 4/1



DETAIL F
SCALE 2/1

APPROVED
ELEC APPVL IN WINDCHILL

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ENVELOPE DRAWING

C C	REV
2 1	SHEET
REVISION STATUS OF SHEETS	
2104M0000	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
PROJECT APPROVAL	R. LOVELACE	1/2025
SUPERVISOR APPROVAL	G. MAHLER	1/2025
CEE / CME DIVISION HEAD		
Q.A.		
SAFETY / ASC DEPARTMENT CHAIR		

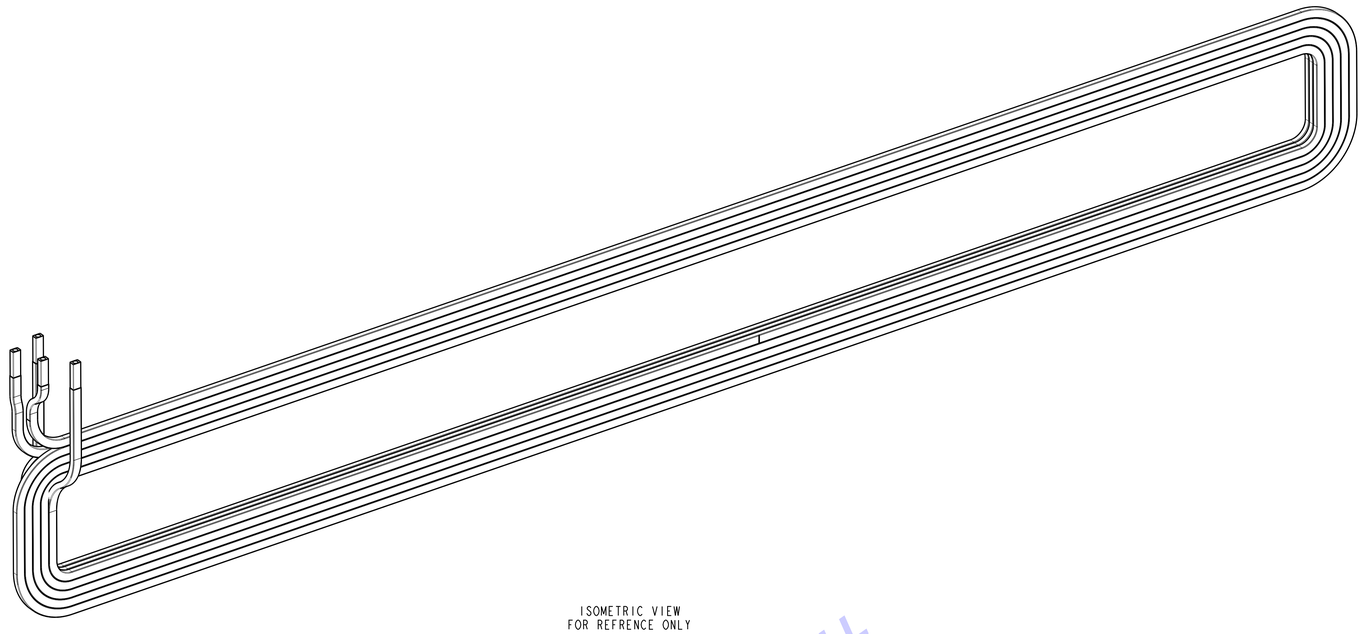
ELECTRON-ION COLLIDER
BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973

C ELECTRON STORAGE RING
ESR DI/D3 DIPOLE MAGNET
12 TO 5 MAGNET COIL, TOP

SIZE	DRAWING NUMBER:	REV.
E	2104M0013	C
Q.A. CATEGORY: A3	SCALE: 1/4	WEIGHT: 254
SHEET 1 OF 2		

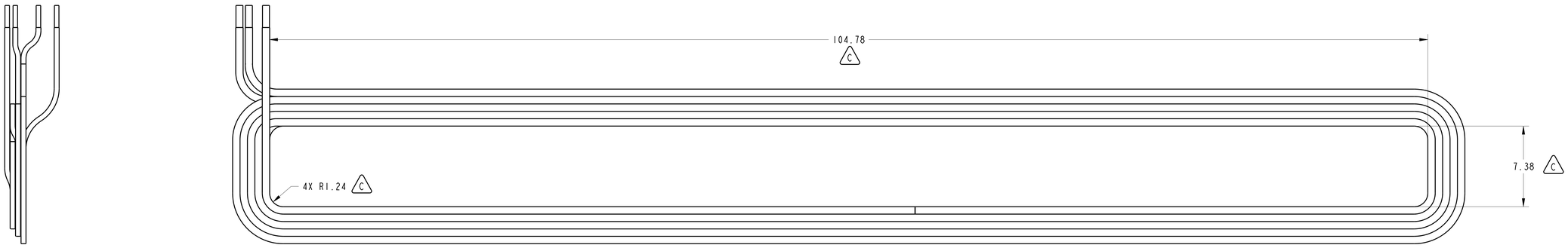
SHT 1 OF 2 C
2104M0013
DWG NO
A

CREO



ISOMETRIC VIEW
FOR REFRENCE ONLY

APPROVED
ELEC APPVL IN WINDCHILL



C

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BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973

SIZE	DRAWING NUMBER:	REV.
E	2104M0013	C

Q.A. CATEGORY:	A3	SCALE:	1/4	WEIGHT:	254	SHEET 2 OF 2

DWG NO 2104M0013 SHT 2 OF 2 REV C