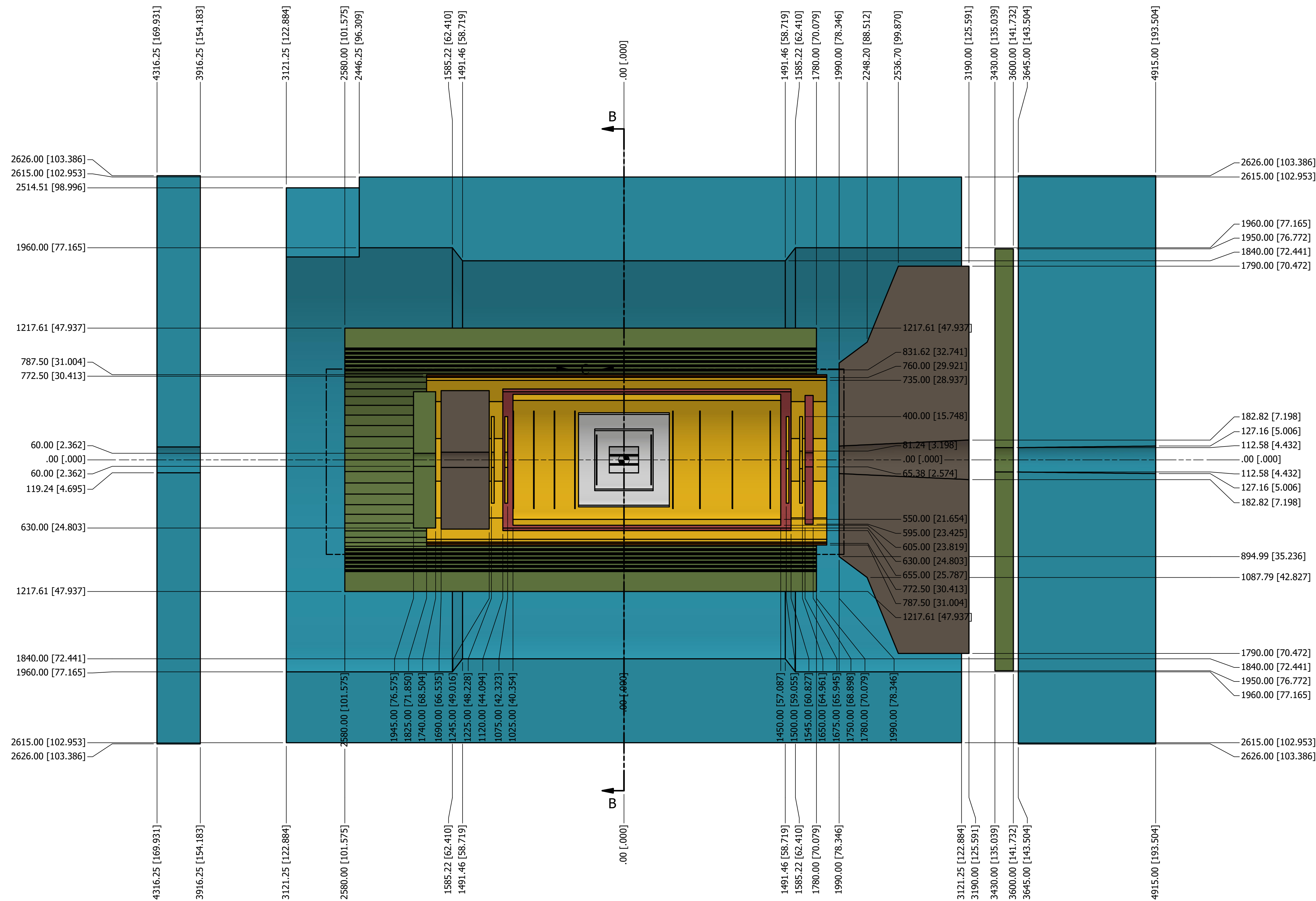
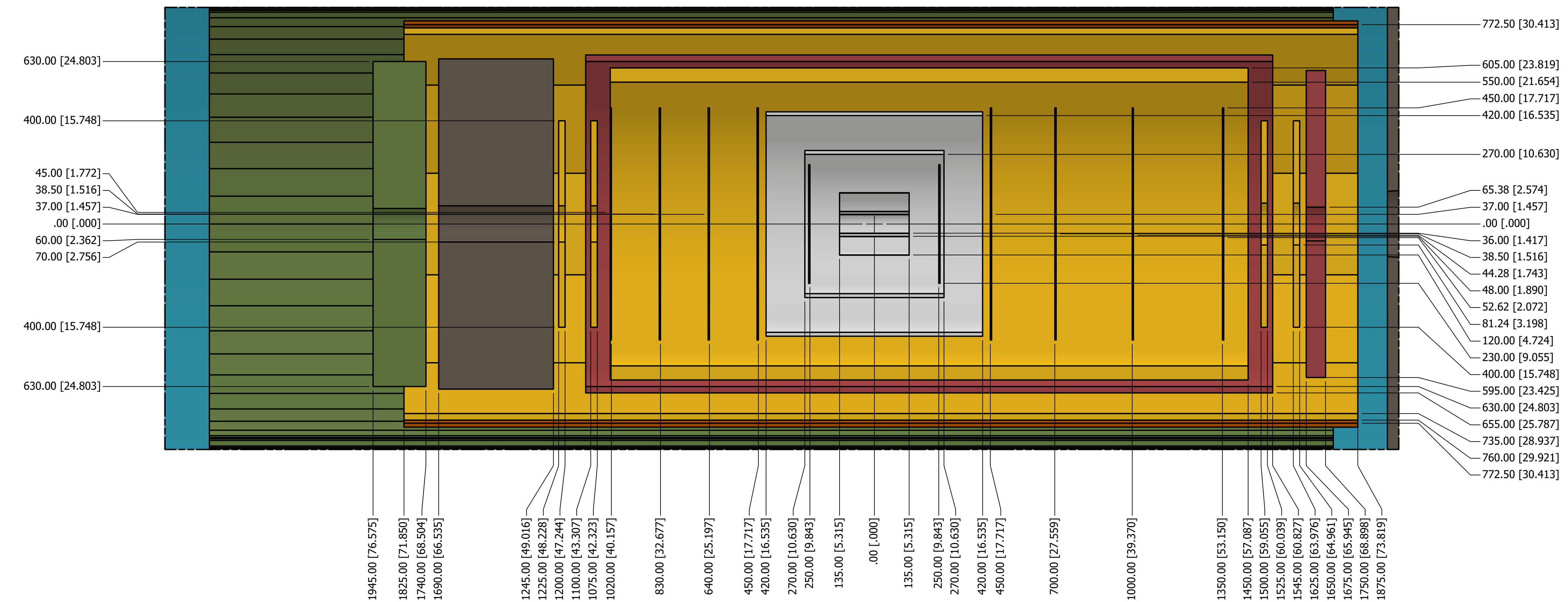


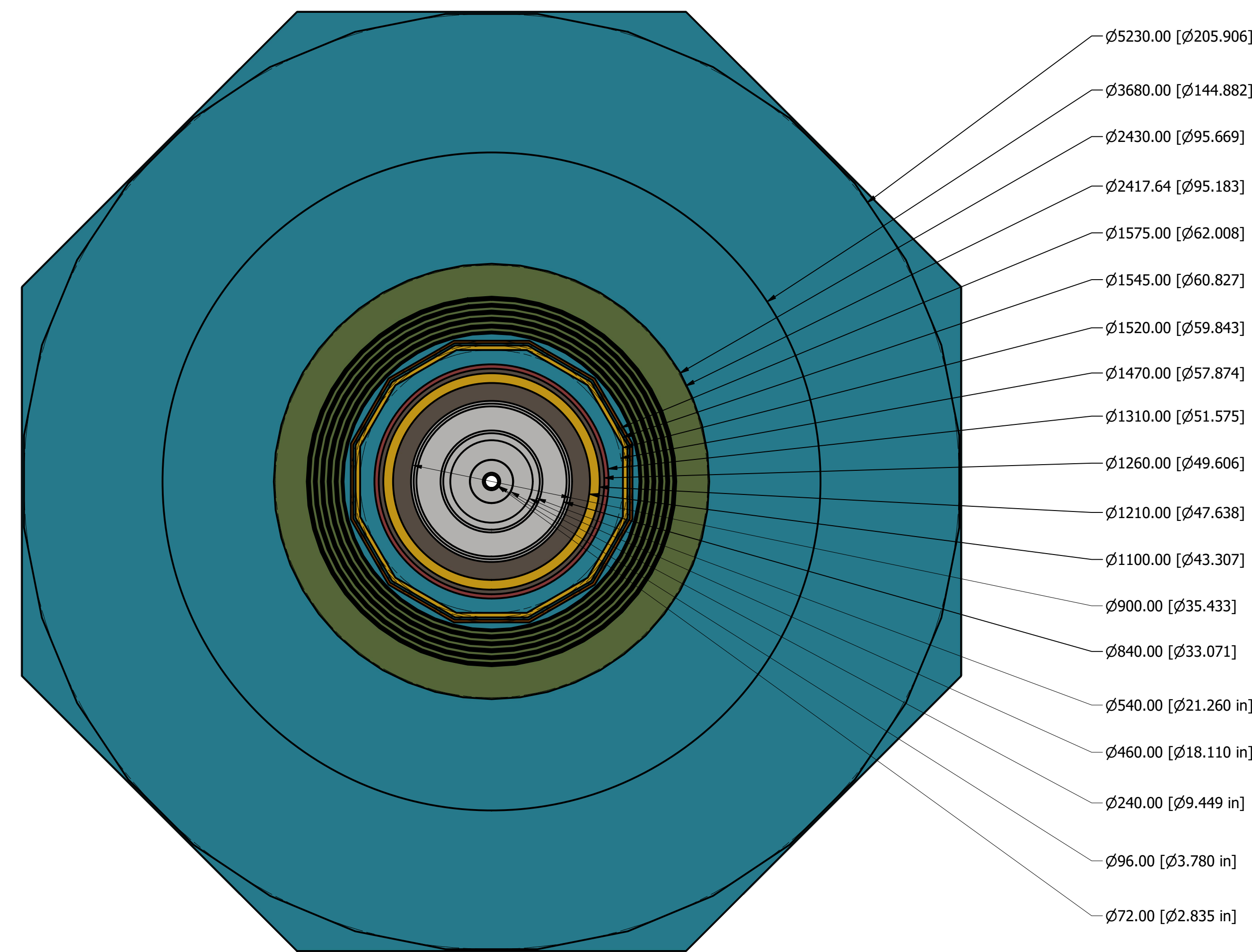
NOTES:
1. UNITS ARE IN mm[in]



SECTION A-A
SCALE 1 / 20

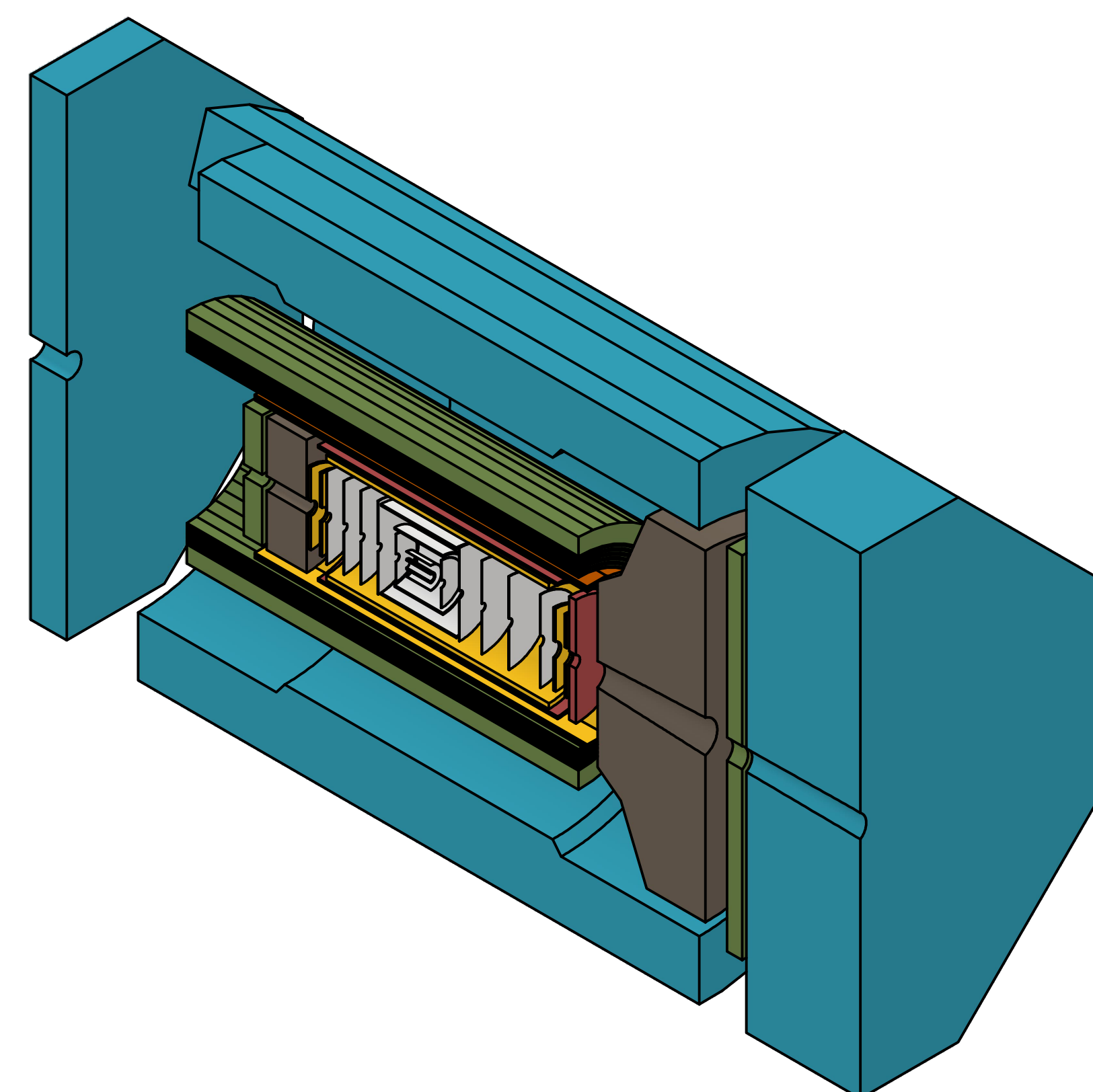


DETAIL C
SCALE 1 / 10



SECTION B-B
SCALE 1 / 20

WEST
ELECTRON
BACKWARD

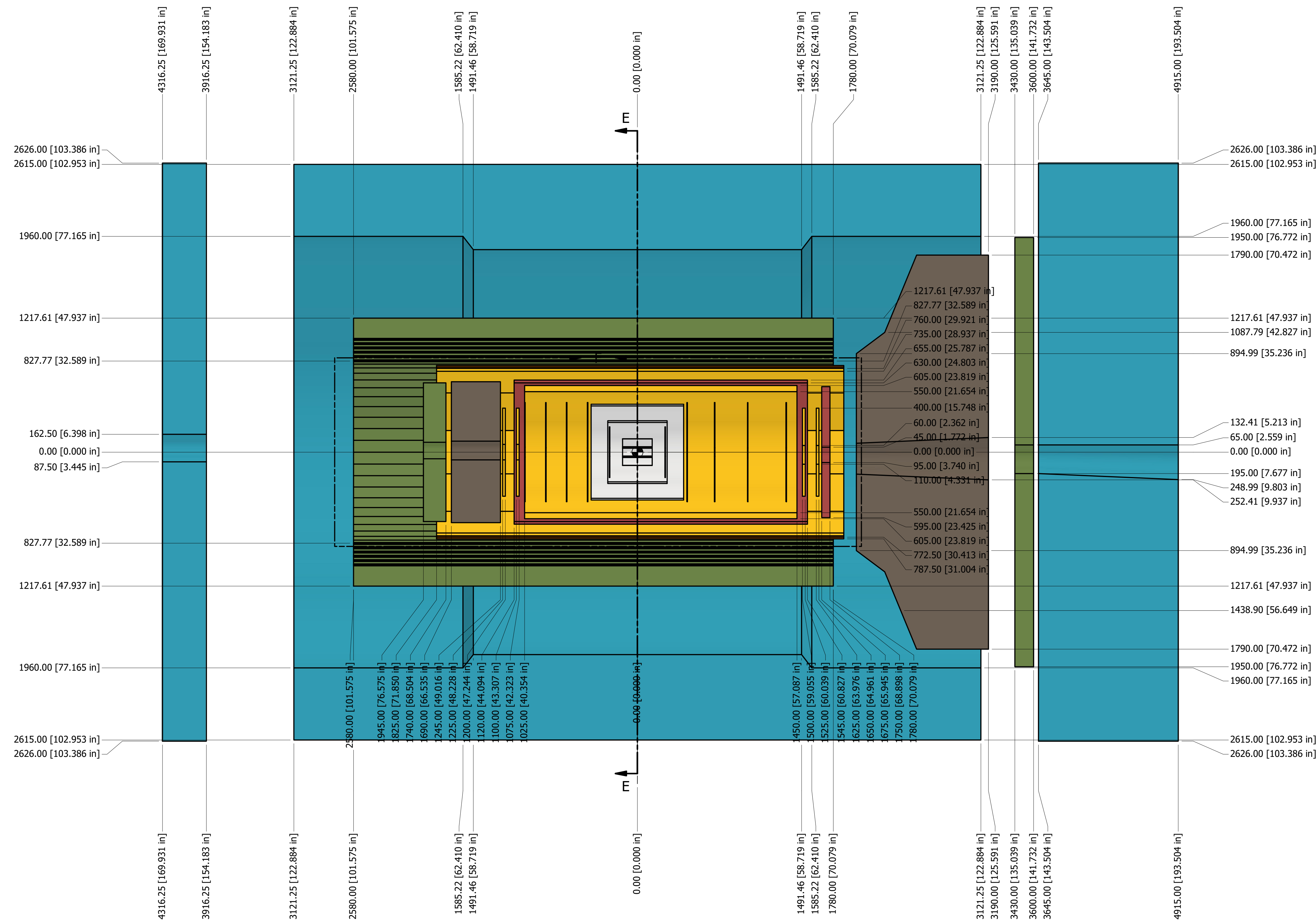


MAGNET & BEAM PIPE	FLUX RETURN & CARRIAGE	HCAL
EMCAL	RICH	DIRC
MPGD	AC LGAD	SVT

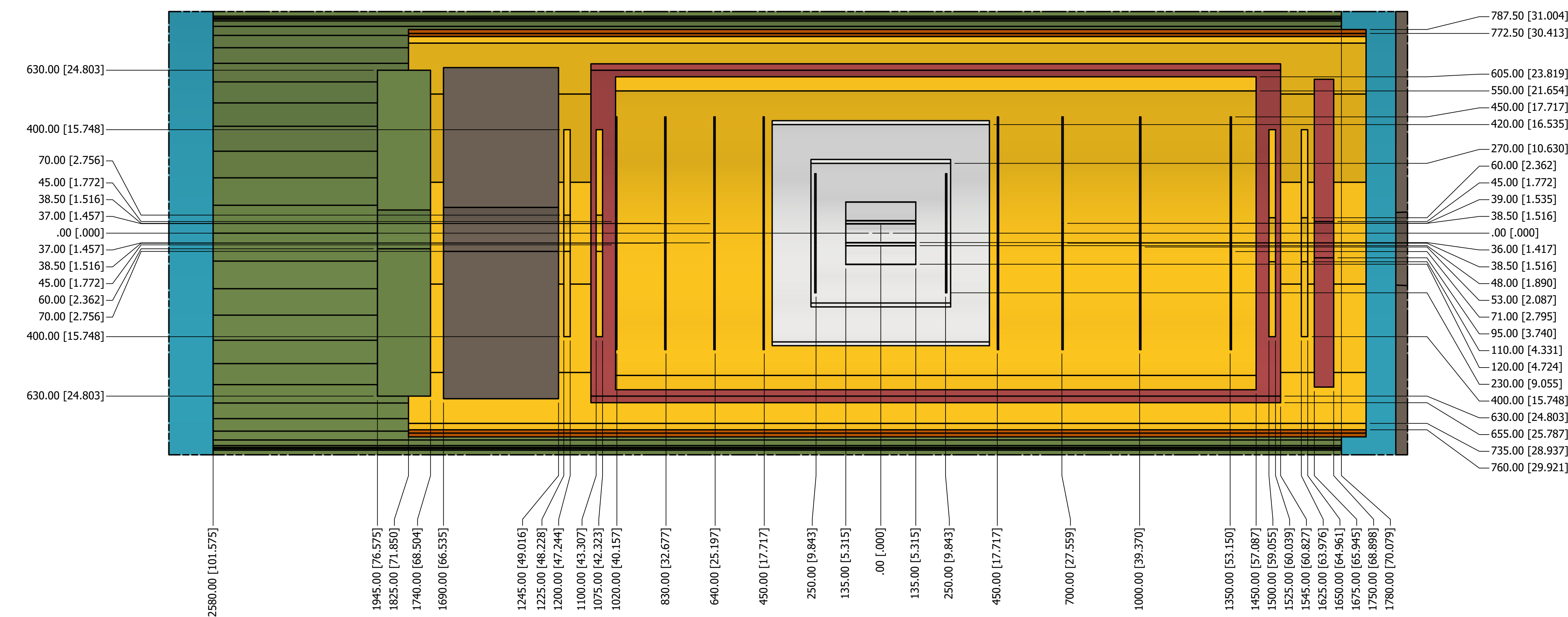
COLOR CODE

EAST
HADRON
FORWARD

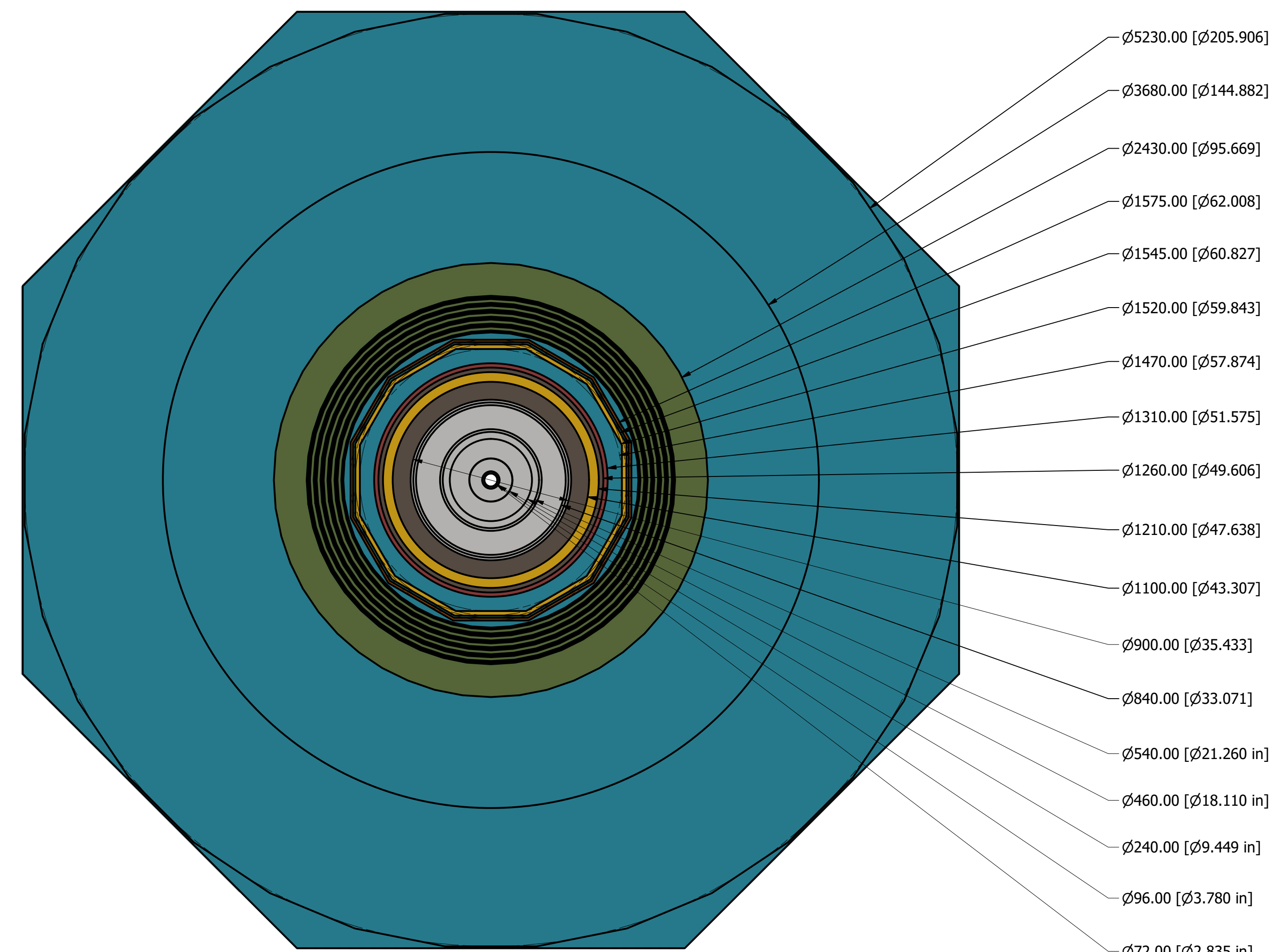
NOTES:
1. UNITS ARE IN mm[in]



SECTION D-D
SCALE 1 / 20

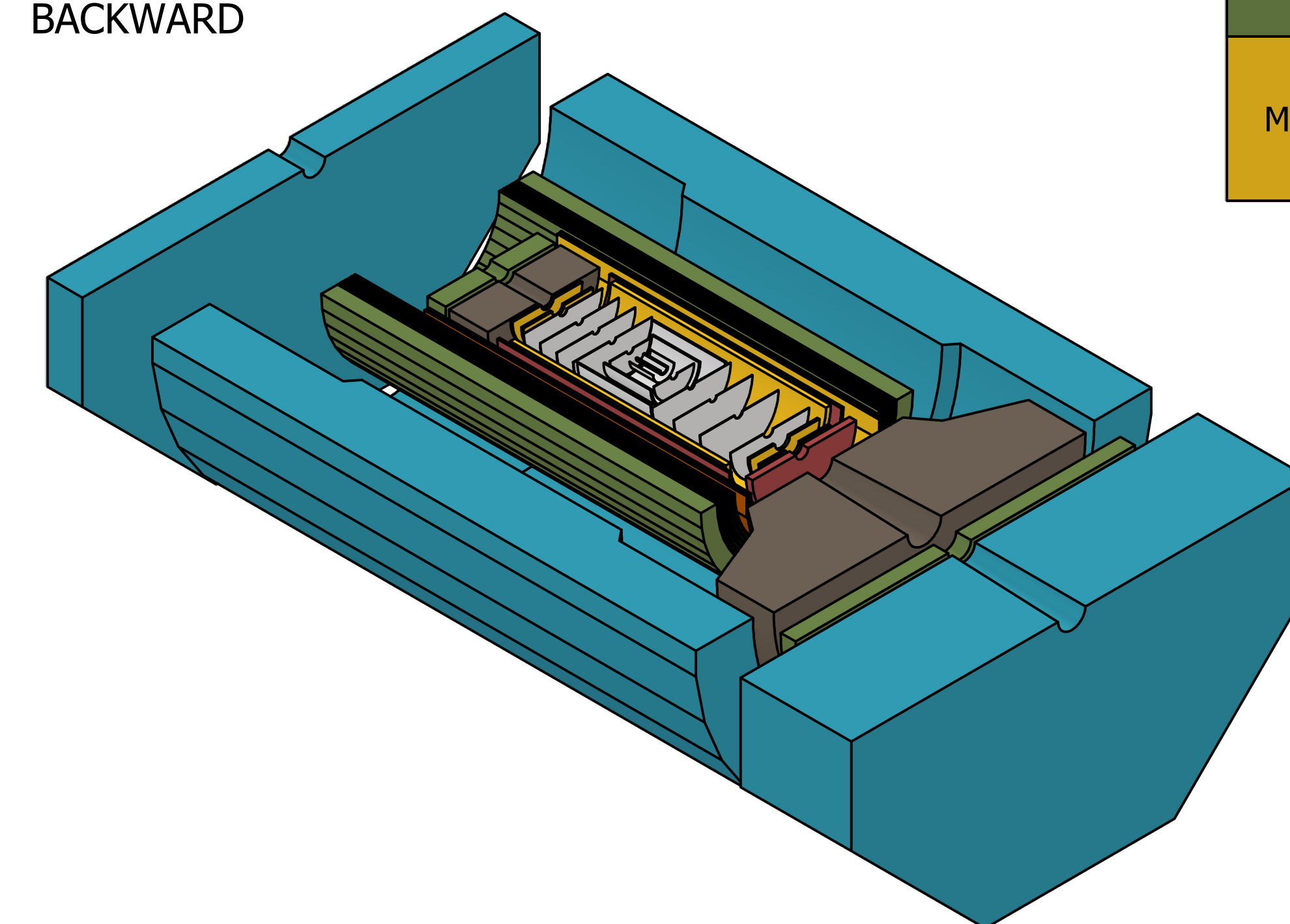


DETAIL F
SCALE 1 / 10



SECTION E-E
SCALE 1 / 20

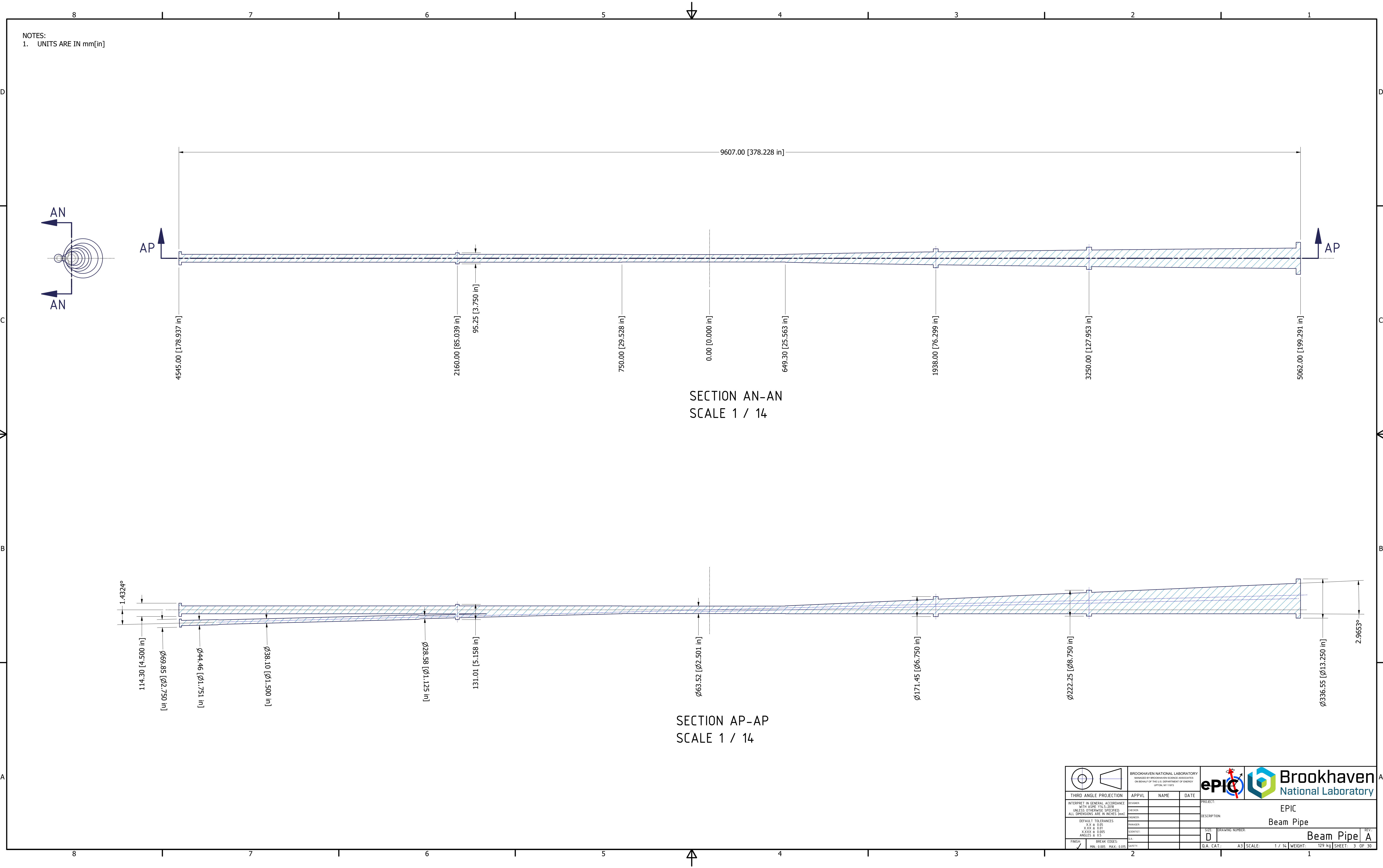
WEST
ELECTRON
BACKWARD



MAGNET & BEAM PIPE	FLUX RETURN & CARRIAGE	HCAL
EMCAL	RICH	DIRC
MPGD	AC LGAD	SVT

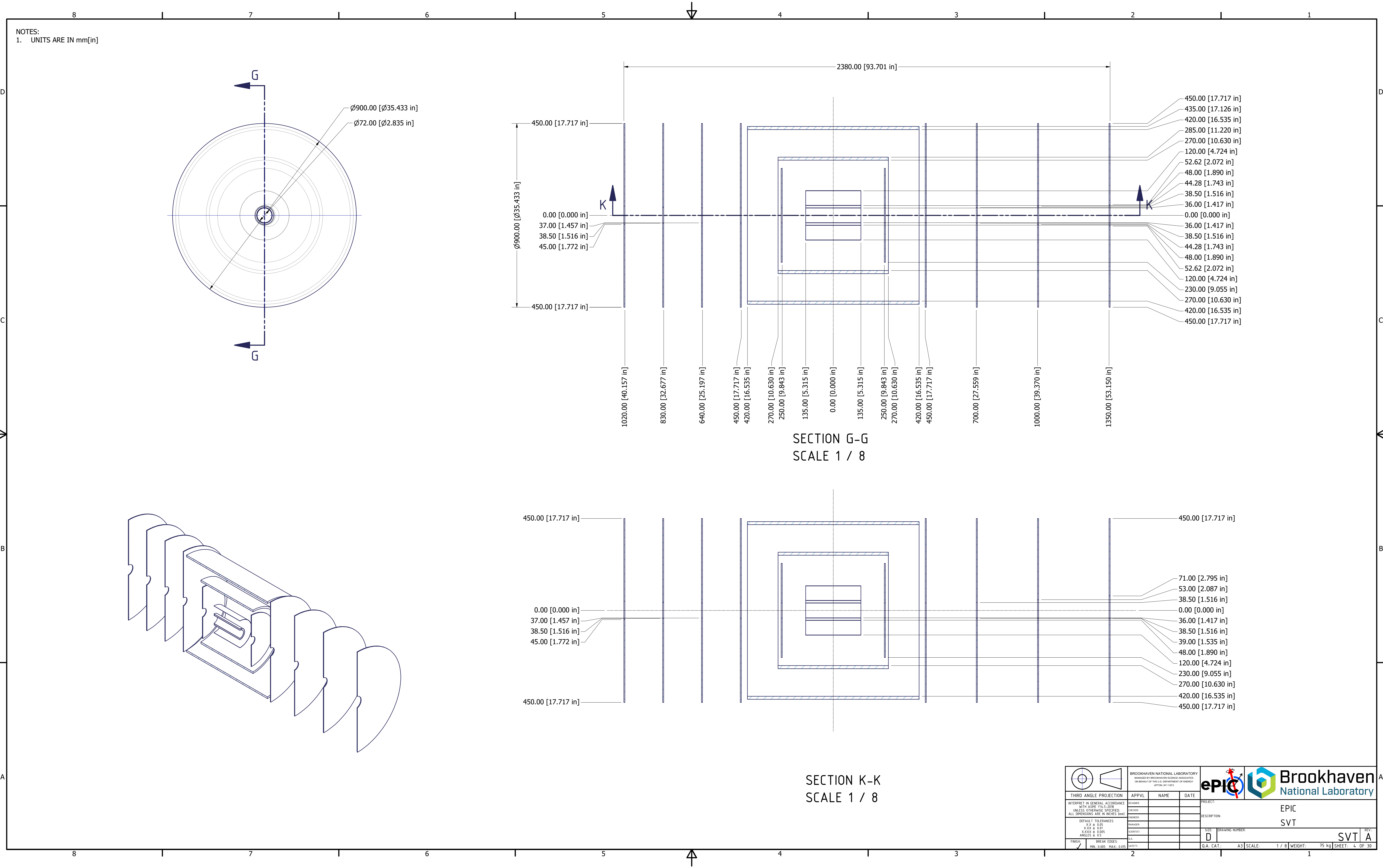
COLOR CODE

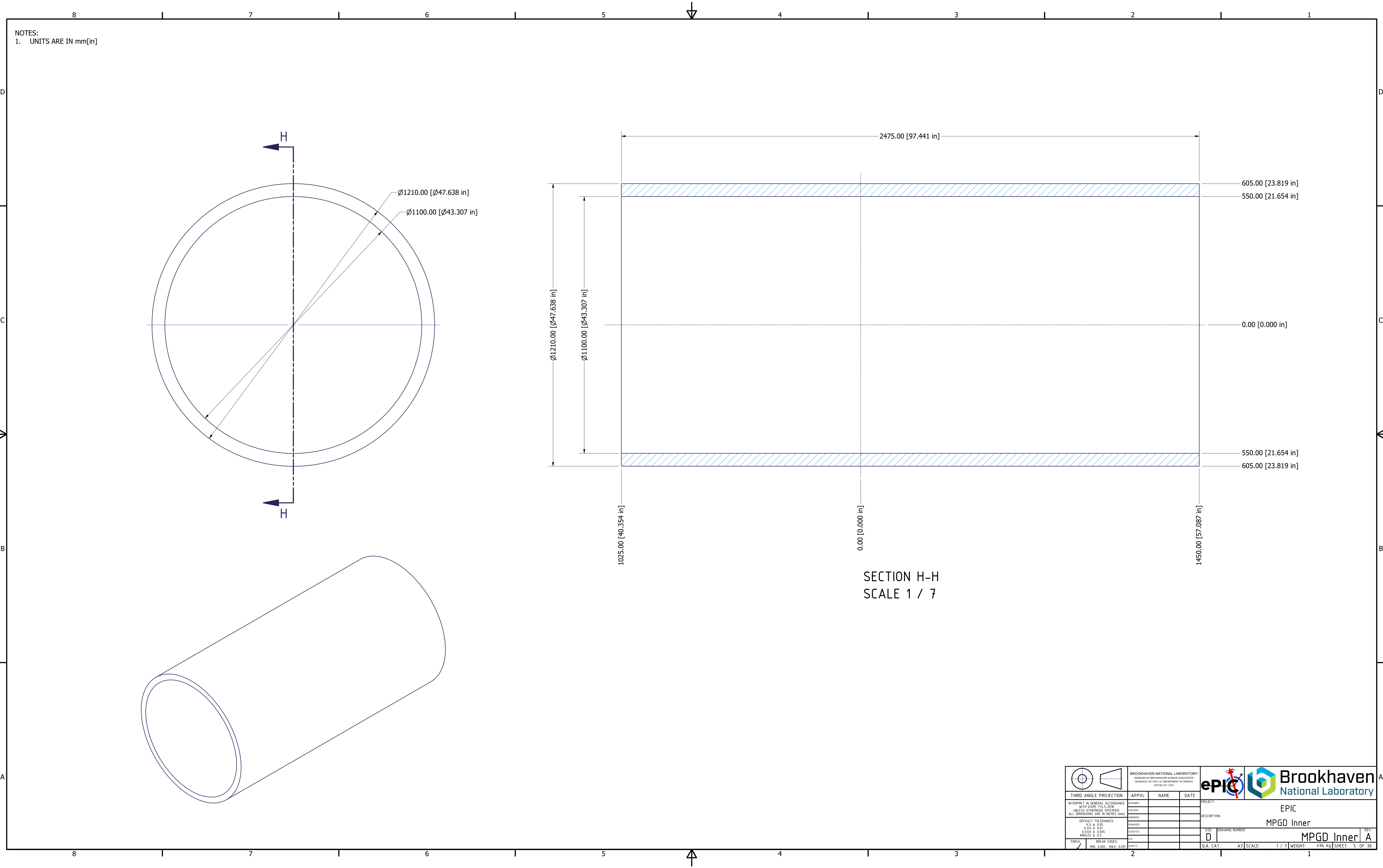
EAST
HADRON
FORWARD



		BROOKHAVEN NATIONAL LABORATORY MANAGED BY BROOKHAVEN SCIENCE ASSOCIATES ON BEHALF OF THE U.S. DEPARTMENT OF ENERGY (UPTON, NY 11973)					
THIRD ANGLE PROJECTION INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.5-2018 (UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES [mm])		APPVL	NAME	DATE	PROJECT		DESCRIPTION
DEFAULT TOLERANCES XXX ± 0.05 XXX ± 0.01 XXX ± 0.005 ANGLES ± 0.5		CHECKER			DESIGNER		
FINISH		MANAGER			DRAWING NUMBER		REV.
BREAK EDGES MIN. 0.005 MAX. 0.015		SCIENTIST			D		A
SAFETY		QA			Q.A. CAT.		A3
		SCALE:		1 / 14	WEIGHT:		129 kg
		SHEET:		3	OF:		30

Beam Pipe A





NOTES:
1. UNITS ARE IN mm[in]

THIRD ANGLE PROJECTION
INTERPRET IN GENERAL ACCORDANCE
WITH ASME Y14.5-2018
(UNLESS OTHERWISE SPECIFIED,
ALL DIMENSIONS ARE IN INCHES [mm])

DESIGNER:
CHECKER:
DRAWER:
MANAGER:
SCIENTIST:
QA:

APPVL:
NAME:
DATE:

FINISH:
BREAK EDGES:
MIN. 0.005 MAX. 0.015

SAFETY:

BROOKHAVEN NATIONAL LABORATORY
MANAGED BY BROOKHAVEN SCIENCE ASSOCIATES
ON BEHALF OF THE U.S. DEPARTMENT OF ENERGY
(UPTON, NY 11973)

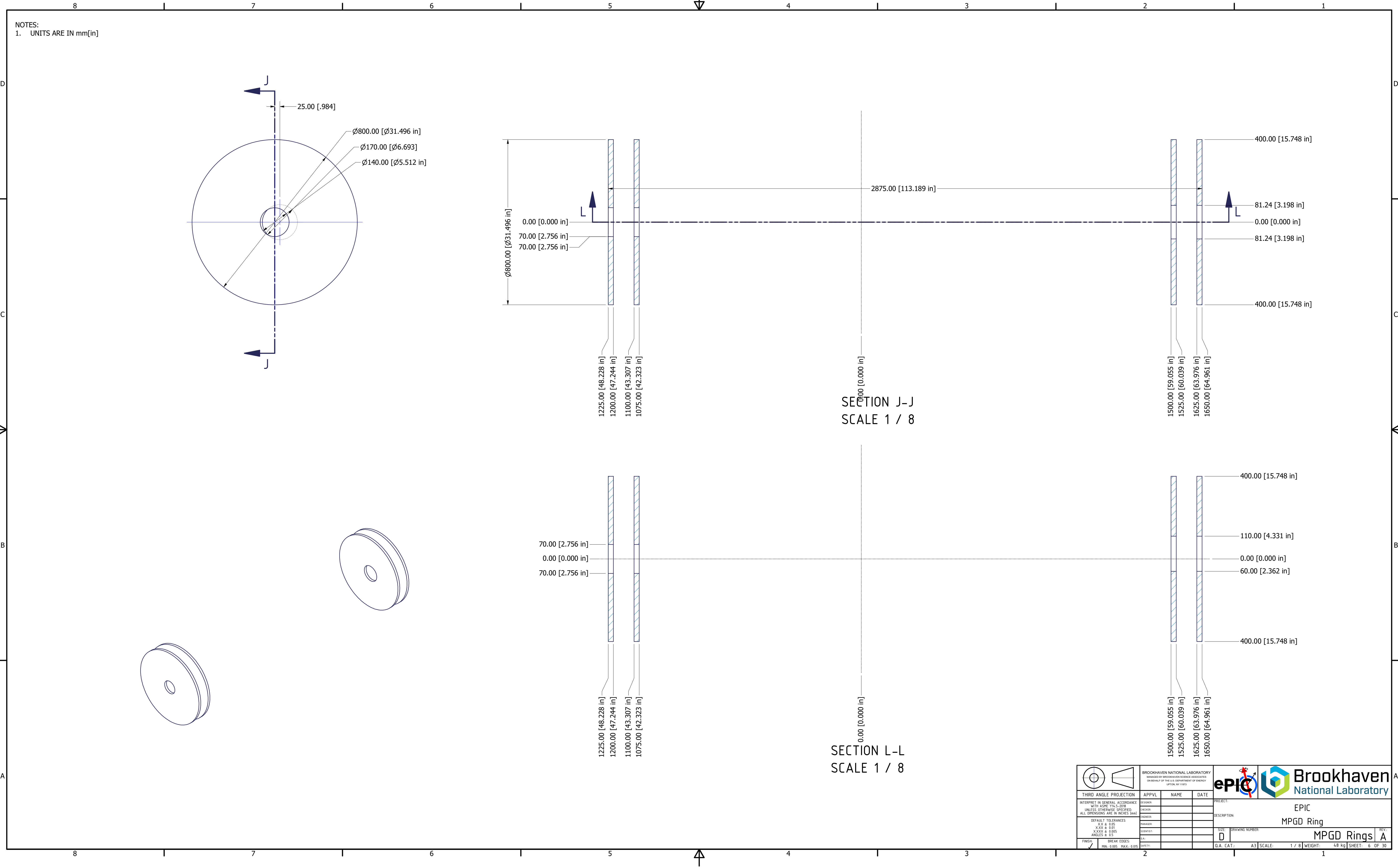
PROJECT:
DESCRIPTION:
SIZE: [DRAWING NUMBER]:
Q.A. CAT.: A3

REV.:
MPGD Inner A

SCALE: 1 / 7

WEIGHT: 494 kg

SHEET: 5 OF 30

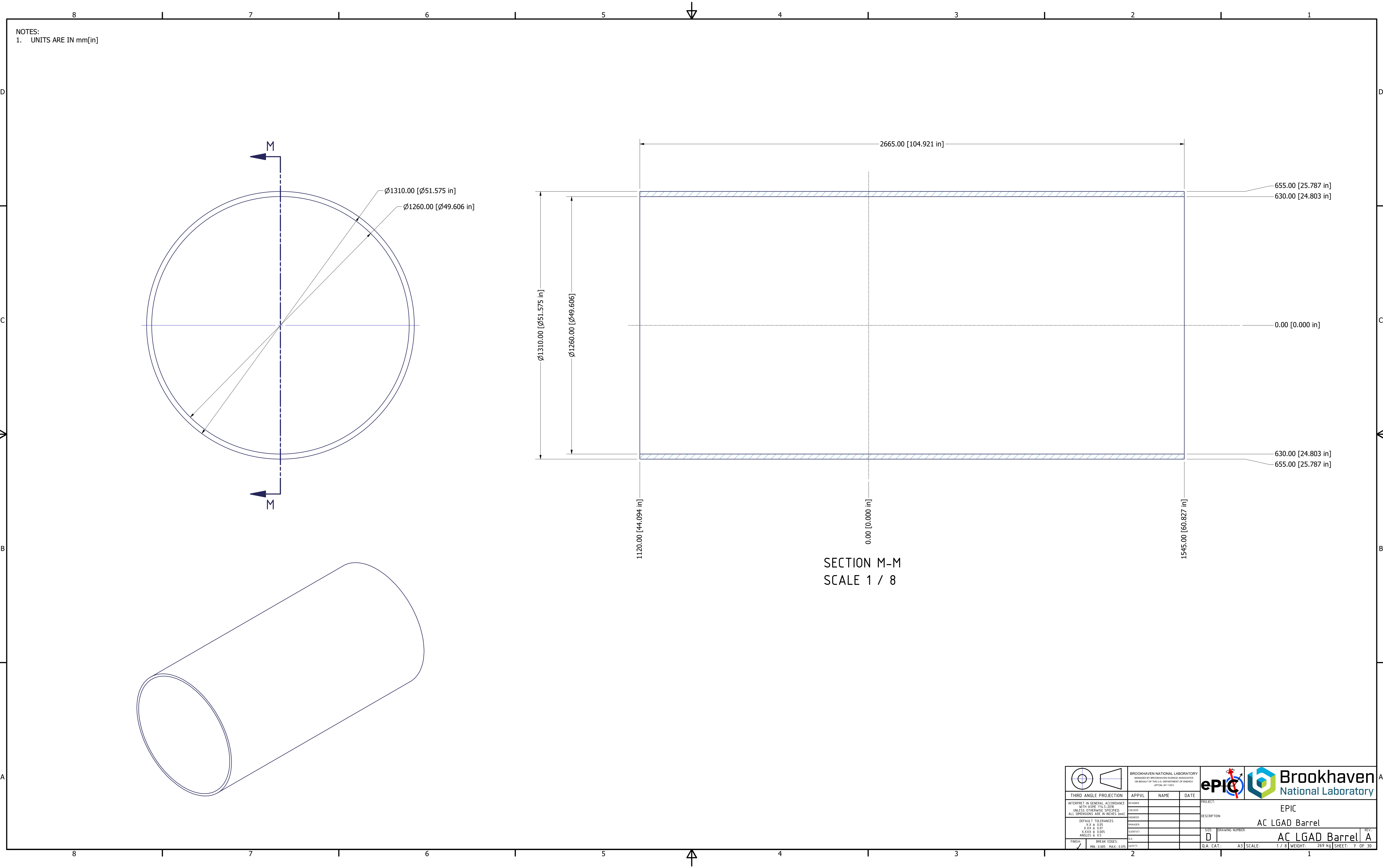


NOTES:
1. UNITS ARE IN mm[in]

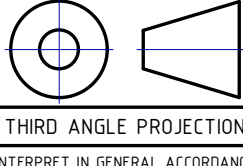
SECTION J-J
SCALE 1 / 8

SECTION L-L
SCALE 1 / 8

		BROOKHAVEN NATIONAL LABORATORY MANAGED BY BROOKHAVEN SCIENCE ASSOCIATES ON BEHALF OF THE U.S. DEPARTMENT OF ENERGY (UPTON, NY 11973)					
THIRD ANGLE PROJECTION INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.5-2018 (UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES (mm))		APPROVAL	NAME	DATE	PROJECT		DESCRIPTION
DEFAULT TOLERANCES XXX ± .015 XXX ± .01 XXX ± .005 ANGLES ± .5		DESIGNER			SIZE		DRAWING NUMBER
FINISH		CHECKER			Q.A. CAT.		REV.
BREAK EDGES MIN. 0.005 MAX. 0.015		MANAGER			A3		A
SAFETY		SCIENTIST			SCALE: 1 / 8		WEIGHT: 48 kg
		CL			SHEET: 6 OF 30		



NOTES:
1. UNITS ARE IN mm[in]



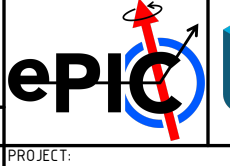
THIRD ANGLE PROJECTION
INTERPRET IN GENERAL ACCORDANCE
WITH ASME Y14.5-2018
(UNLESS OTHERWISE SPECIFIED,
ALL DIMENSIONS ARE IN INCHES (mm))

DESIGNER:
CHECKER:
DRAWER:
MANAGER:
SCIENTIST:
S.A.:

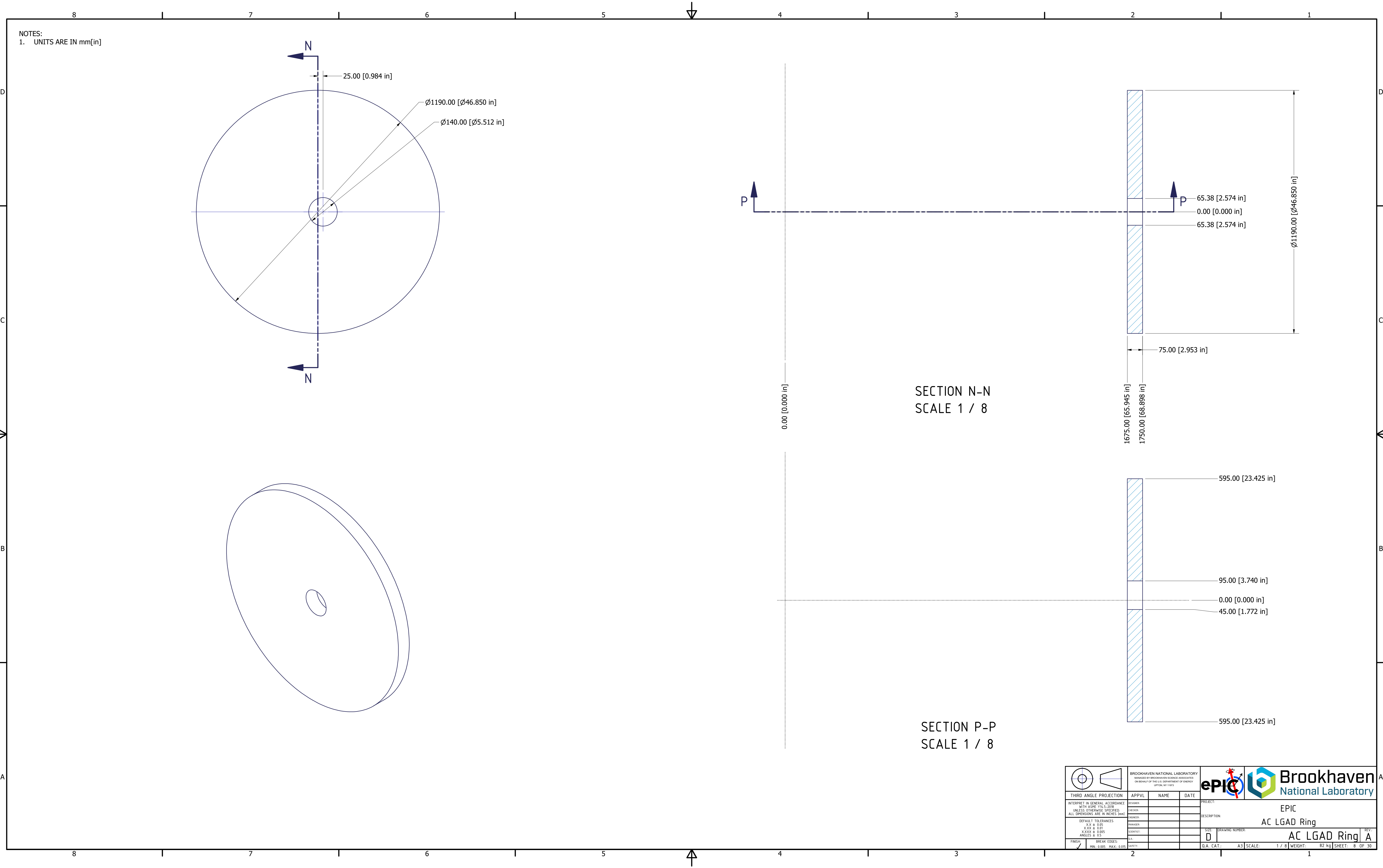
APPVL:
NAME:
DATE:

PROJECT:
DESCRIPTION:
SIZE: DRAWING NUMBER:
Q.A. CAT.: A3 SCALE: 1 / 8 WEIGHT: 269 kg SHEET: 7 OF 30

BROOKHAVEN NATIONAL LABORATORY
MANAGED BY BROOKHAVEN SCIENCE ASSOCIATES
ON BEHALF OF THE U.S. DEPARTMENT OF ENERGY
(UPTON, NY 11973)

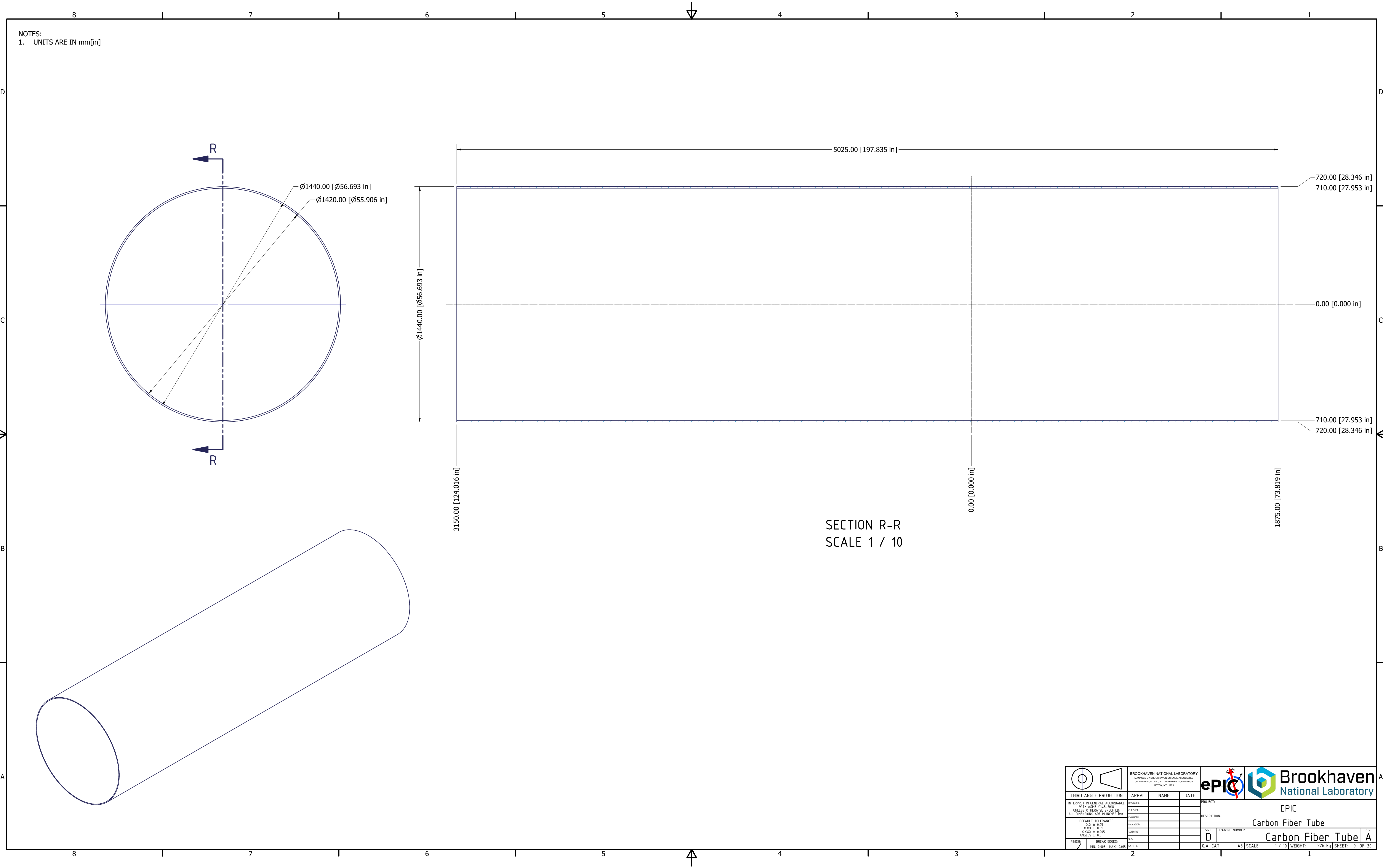


EPIC
AC LGAD Barrel



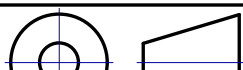
NOTES:
1. UNITS ARE IN mm[in]

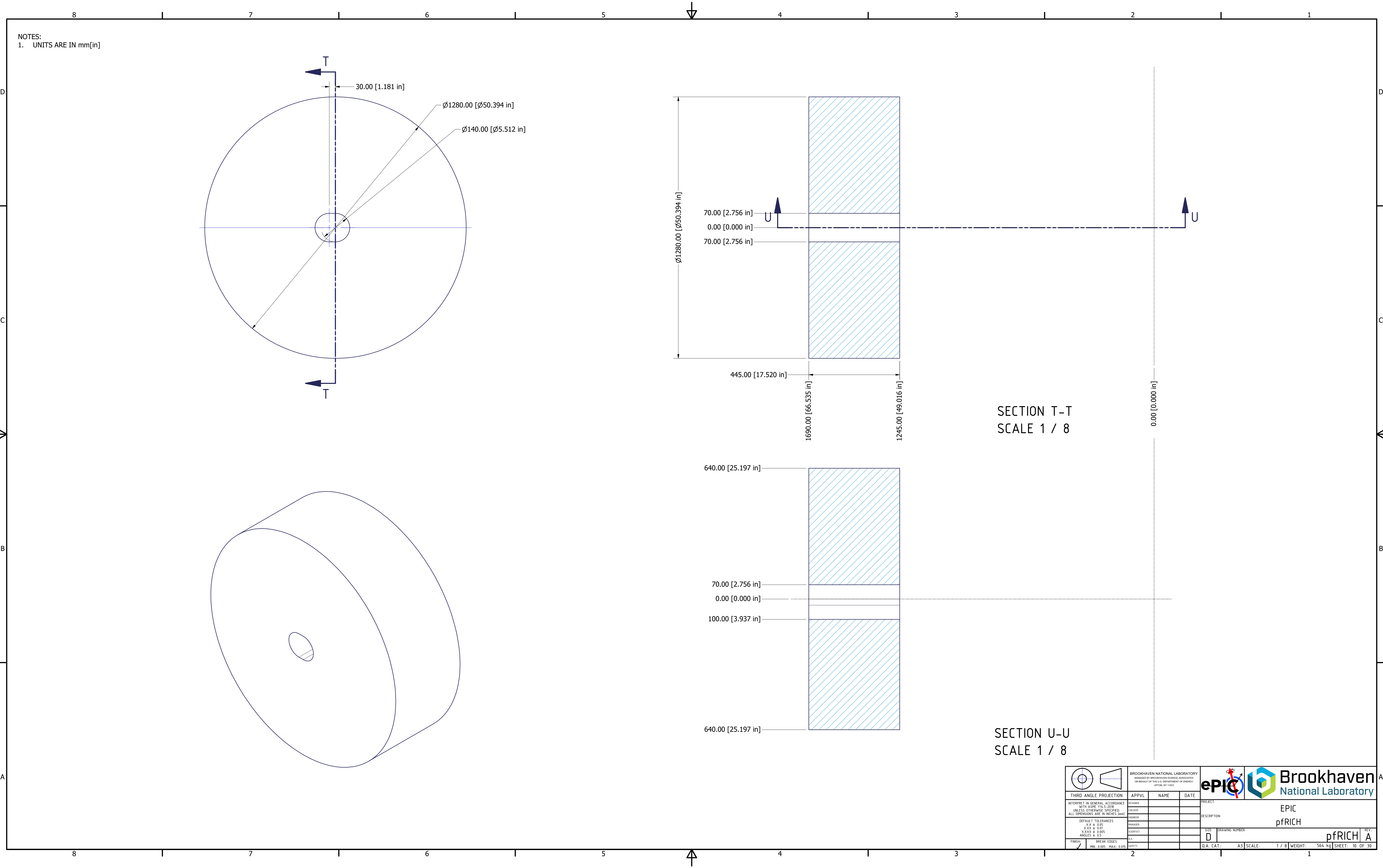
		BROOKHAVEN NATIONAL LABORATORY MANAGED BY BROOKHAVEN SCIENCE ASSOCIATES ON BEHALF OF THE U.S. DEPARTMENT OF ENERGY (UPTON, NY 11973)					
THIRD ANGLE PROJECTION		APPV'L	NAME	DATE	PROJECT		
INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.5-2018 (UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES (mm))		DESIGNER			DESCRIPTION		
CHECKER					AC LGAD Ring		
DRAWN					REV.:		
DEFAULT TOLERANCES		MANAGER			SIZE: [DRAWING NUMBER]		
XXX ± 0.05		SCIENTIST			D		
XXX ± 0.01					AC LGAD Ring		
XXX ± 0.005					A		
ANGLES ± 0.5					Q.A. CAT.:		
FINISH		BREAK EDGES	DATE		SCALE: 1 / 8		
MIN. 0.005		MAX. 0.015			WEIGHT: 82 kg		
					SHEET: 8 OF 30		



NOTES:
1. UNITS ARE IN mm[in]

SECTION R-R
SCALE 1 / 10

		BROOKHAVEN NATIONAL LABORATORY MANAGED BY BROOKHAVEN SCIENCE ASSOCIATES ON BEHALF OF THE U.S. DEPARTMENT OF ENERGY UPTON, NY 11973				 Brookhaven National Laboratory								
THIRD ANGLE PROJECTION		APPROVAL	NAME	DATE	PROJECT									
INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.5-2018 (UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES (mm))		DESIGNER			DESCRIPTION									
		CHECKER												
		DRAWER												
		MANAGER												
DEFAULT TOLERANCES XXX ± 0.05 XXX ± 0.01 XXX ± 0.005 ANGLES ± 0.5		SCIENTIST			SIZE: DRAWING NUMBER:									
		QA												
		SAFETY												
		FINISH	BREAK EDGES MIN. 0.005 MAX. 0.015	SAFETY		Q.A. CAT:		A3	SCALE:	1 / 10	WEIGHT:	226 kg	SHEET:	9 OF 30



NOTES:
1. UNITS ARE IN mm[in]

SECTION T-T
SCALE 1 / 8

SECTION U-U
SCALE 1 / 8

THIRD ANGLE PROJECTION

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.5-2018 (UNLESS OTHERWISE SPECIFIED) ALL DIMENSIONS ARE IN INCHES (mm)

DESIGNER: _____

CHECKER: _____

DRAWN: _____

DATE: _____

DEFAULT TOLERANCES
XXX ± 0.05
XXX ± 0.01
XXX ± 0.005
ANGLES ± 0.5

MANAGER: _____

SCIENTIST: _____

QA: _____

FINISH: ☒ BREAK EDGES: MIN. 0.005 MAX. 0.015

SHEET: 10 OF 30

EPIC

Brookhaven National Laboratory

PROJECT: _____

DESCRIPTION: _____

SIZE: _____

DRAWING NUMBER: _____

Q.A. CAT.: _____

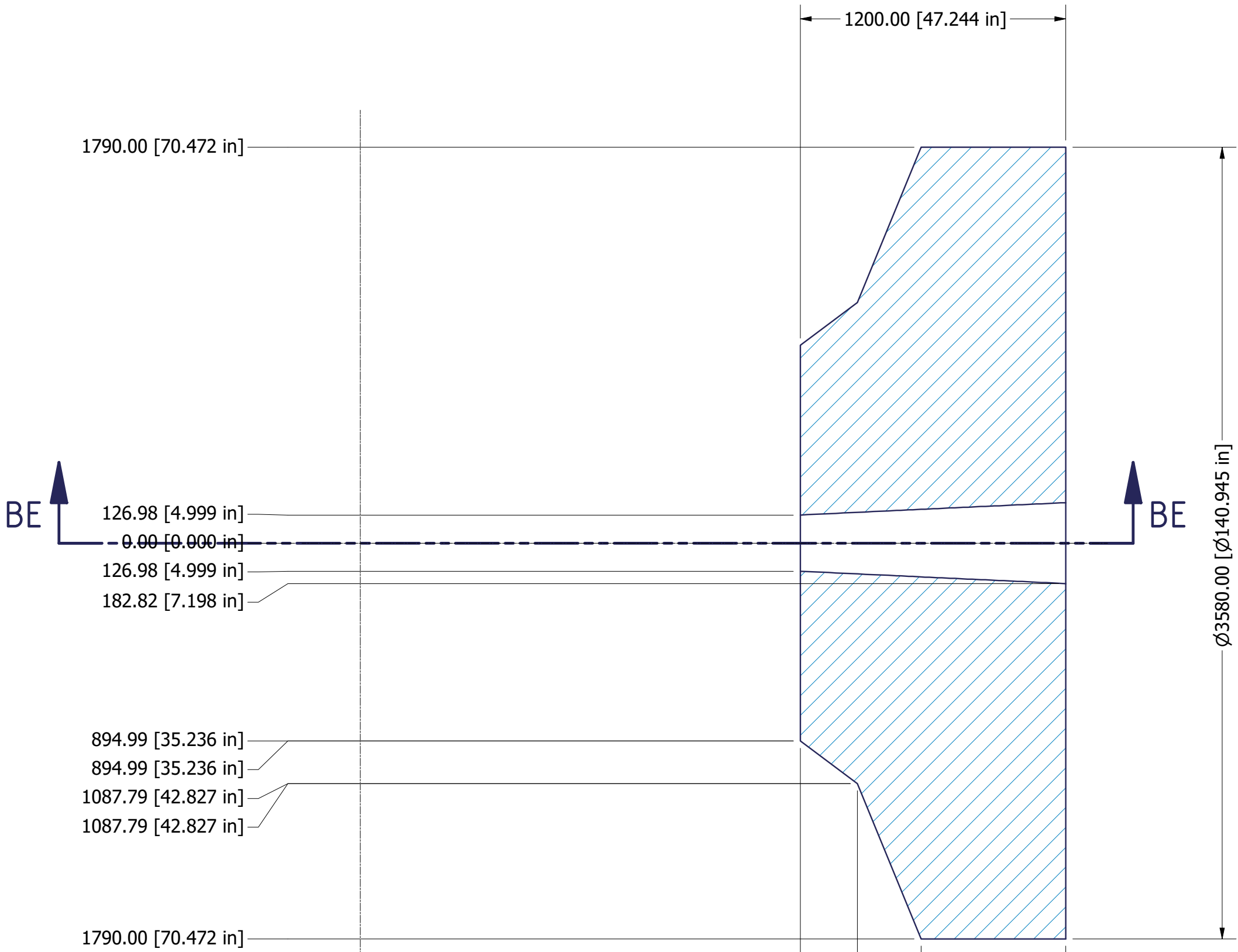
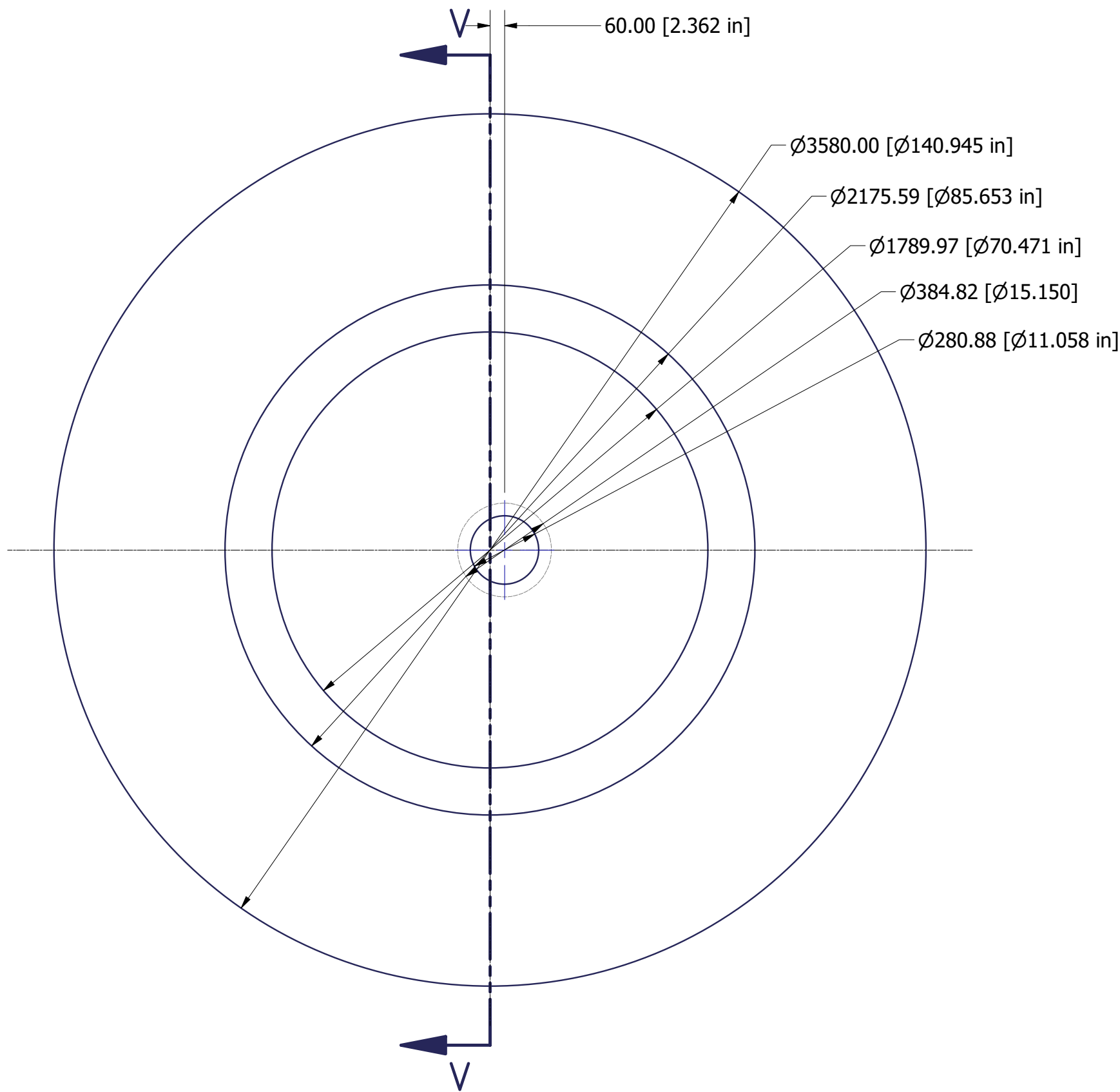
A3 SCALE: 1 / 8

WEIGHT: 564 kg

REV.: _____

pfRICH A

NOTES:
1. UNITS ARE IN mm[in]

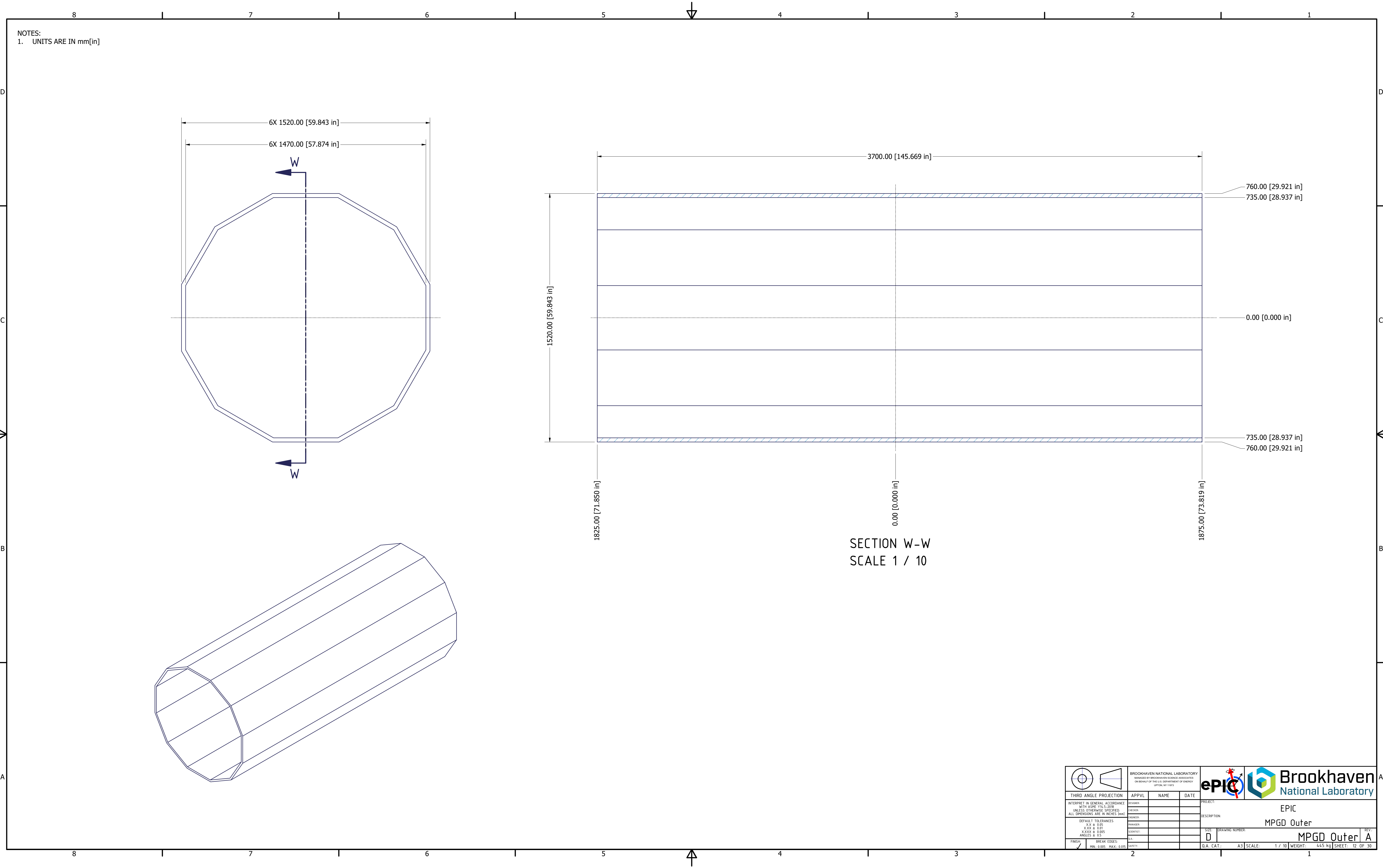


SECTION V-V
SCALE 1 / 20



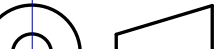
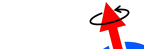
SECTION BE-BE
SCALE 1 / 20

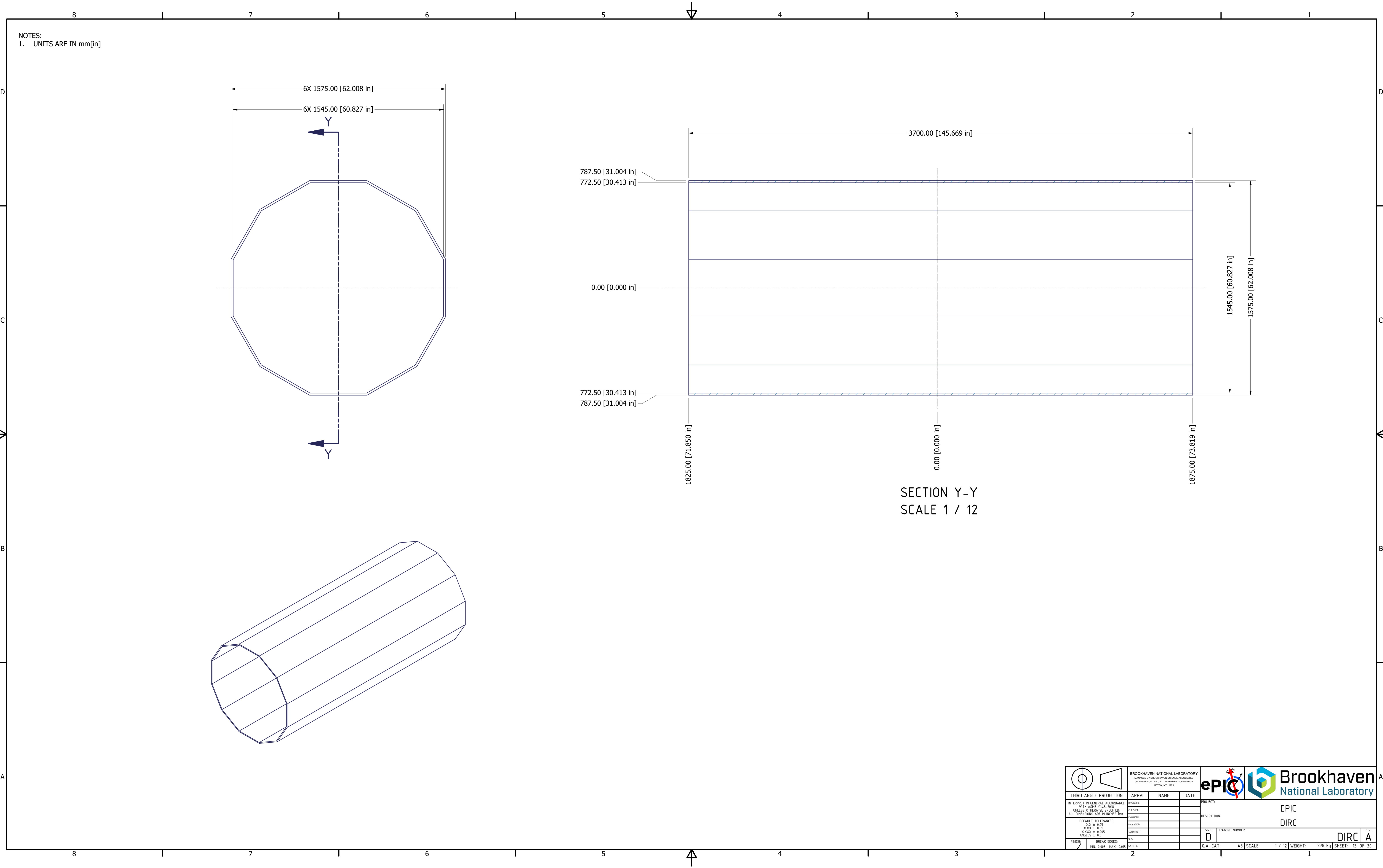
		BROOKHAVEN NATIONAL LABORATORY MANAGED BY BROOKHAVEN SCIENCE ASSOCIATES ON BEHALF OF THE U.S. DEPARTMENT OF ENERGY (UPTON, NY 11973)					
THIRD ANGLE PROJECTION INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.5-2018 (UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES (mm))		APPROVED	NAME	DATE	PROJECT		DESCRIPTION
DESIGNER					EPIC		dRICH
CHECKER					DESCRIPTION		
DRAWN					SIZE		DRAWING NUMBER
MANAGER					D		dRICH
SCIENTIST					Q.A. CAT.		A3
SCALE					SCALE		1 / 20
FINISH					WEIGHT		9184 kg
BREAK EDGES MIN. 0.005 MAX. 0.015					SHEET		11 OF 30



NOTES:
1. UNITS ARE IN mm[in]

SECTION W-W
SCALE 1 / 10

		BROOKHAVEN NATIONAL LABORATORY MANAGED BY BROOKHAVEN SCIENCE ASSOCIATES ON BEHALF OF THE U.S. DEPARTMENT OF ENERGY UPTON, NY 11973						Brookhaven National Laboratory			
THIRD ANGLE PROJECTION INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.5-2010 (UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES (mm)) DEFAULT TOLERANCES XXX ± 0.05 XXX ± 0.01 XXXX ± 0.005 ANGLES ± 0.5 FINISH: BREAK EDGES: MIN. 0.005 MAX. 0.015		APPVL	NAME	DATE	PROJECT:		EPIC				
		CHECKER:			DESCRIPTION:		MPGD Outer				
		DRAWER:			SIZE:		DRAWING NUMBER:		A3		REV:
		MANAGER:			Q.A. CAT.:		A3		SCALE:		1 / 10
		SAFETY:			WEIGHT:		4.45 kg		SHEET:		12 OF 30

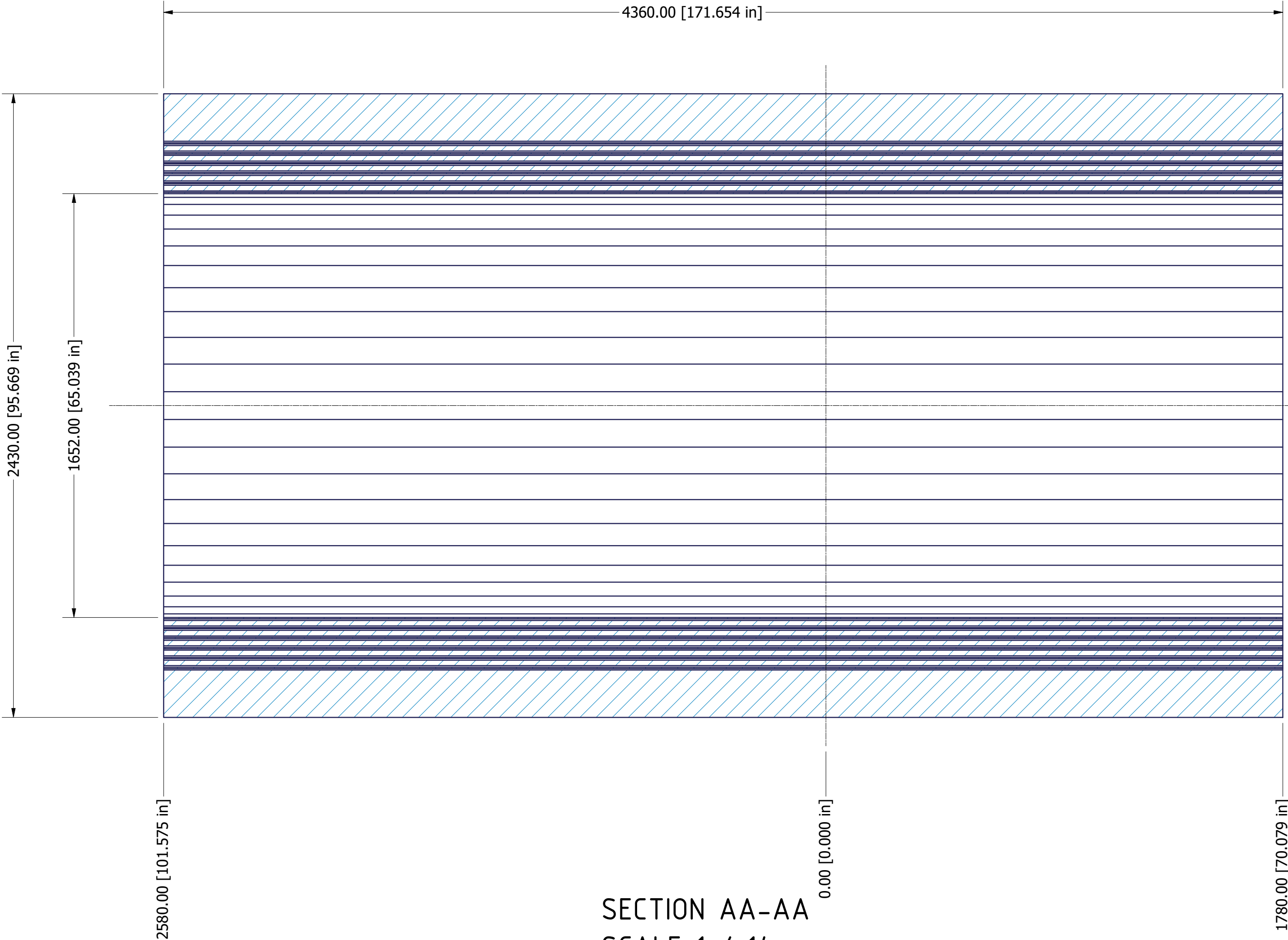
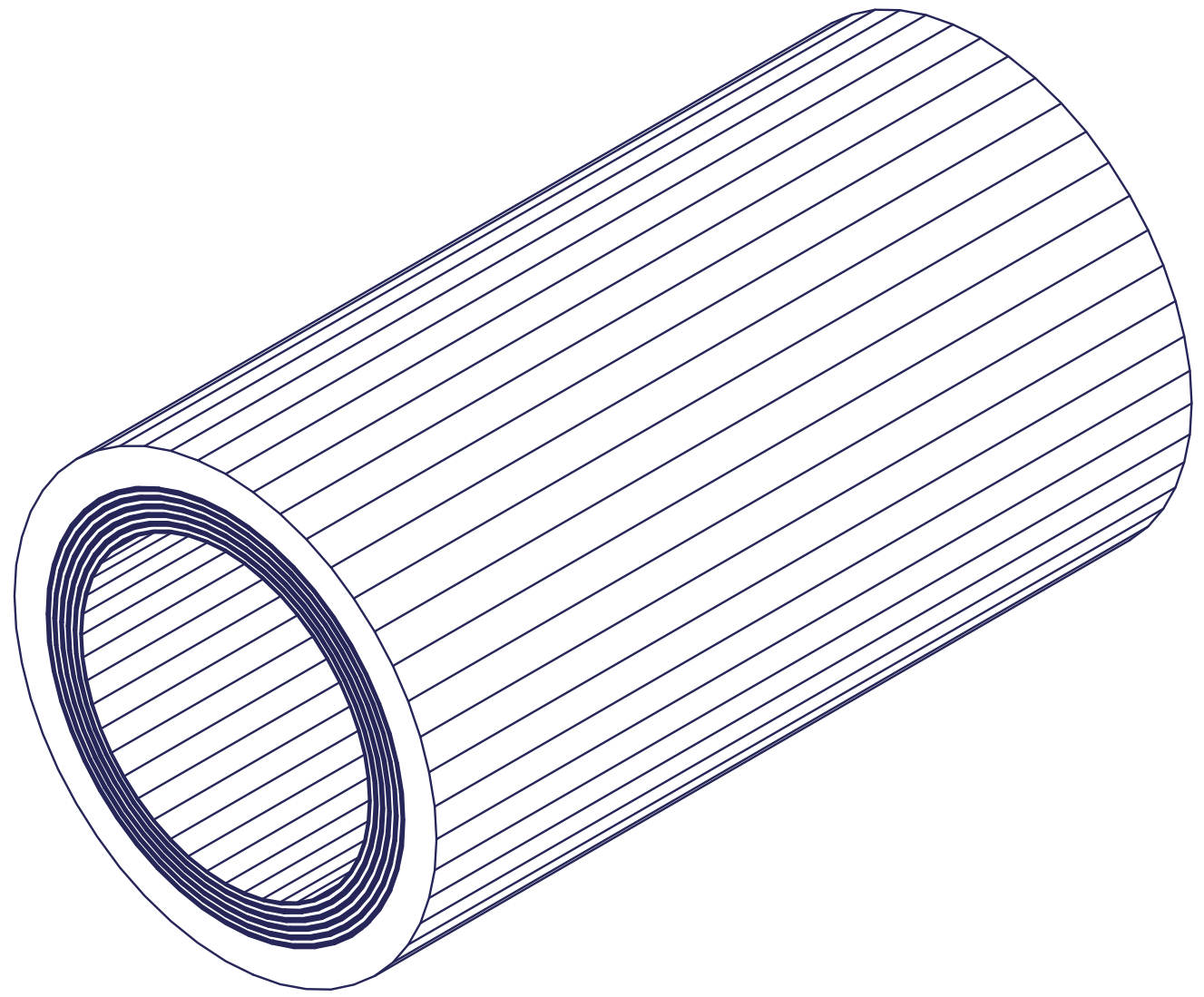
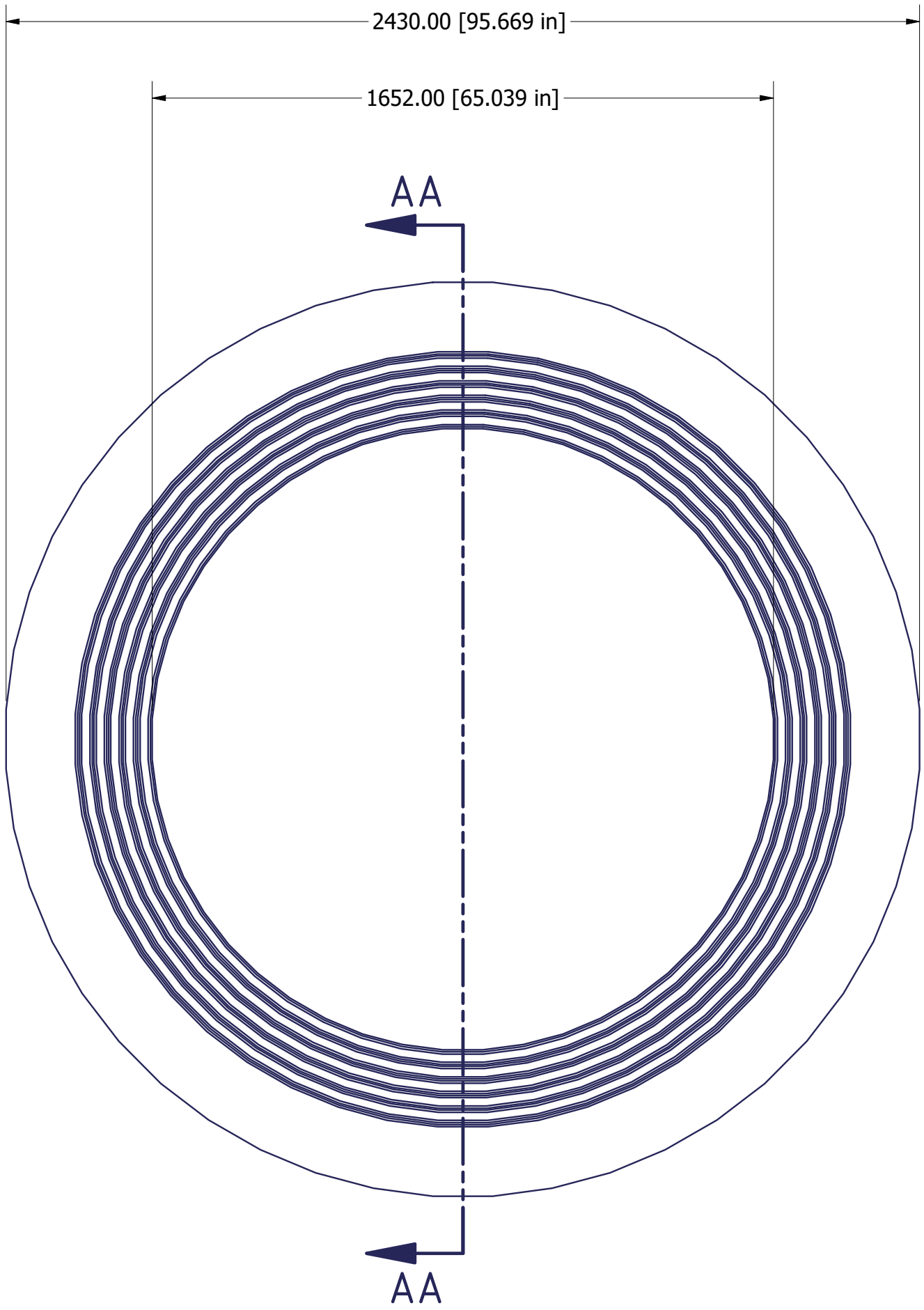


NOTES:
1. UNITS ARE IN mm[in]

SECTION Y-Y
SCALE 1 / 12

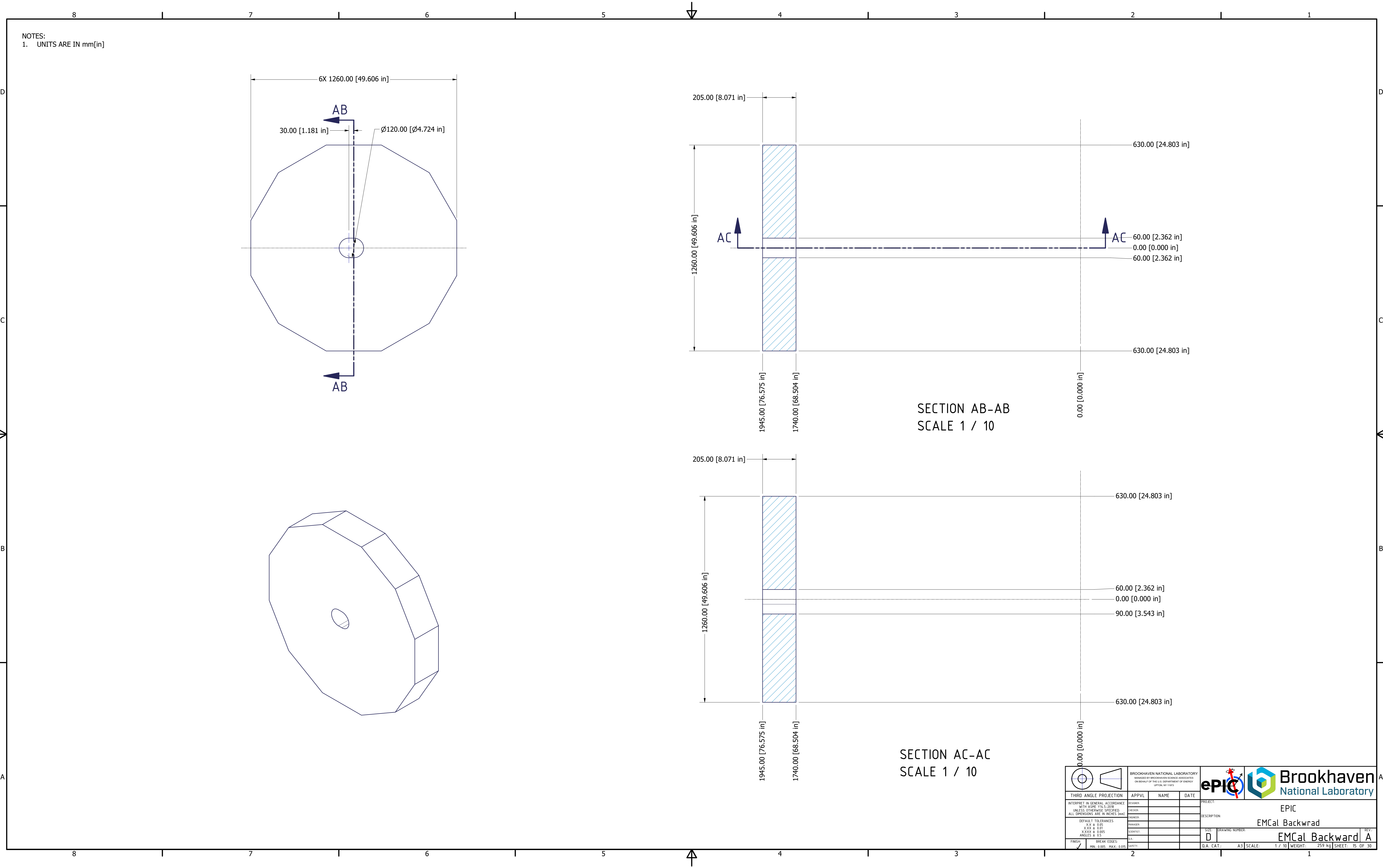
		BROOKHAVEN NATIONAL LABORATORY MANAGED BY BROOKHAVEN SCIENCE ASSOCIATES ON BEHALF OF THE U.S. DEPARTMENT OF ENERGY (UPTON, NY 11973)					
THIRD ANGLE PROJECTION		APPVL	NAME	DATE	PROJECT		
INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.5-2018 (UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES (mm))		DESIGNER			DESCRIPTION		
DEFAULT TOLERANCES XXX ± 0.05 XXX ± 0.01 XXX ± 0.005 ANGLES ± 0.5		ENGINEER			SIZE: DRAWING NUMBER:		
FINISH: / BREAK EDGES MIN. 0.005 MAX. 0.015		MANAGER			D Q.A. CAT. A3 SCALE: 1 / 12 WEIGHT: 278 kg SHEET: 13 OF 30		
		SCIENTIST			REV.:		
		QA			DIRC A		

NOTES:
1. UNITS ARE IN mm[in]

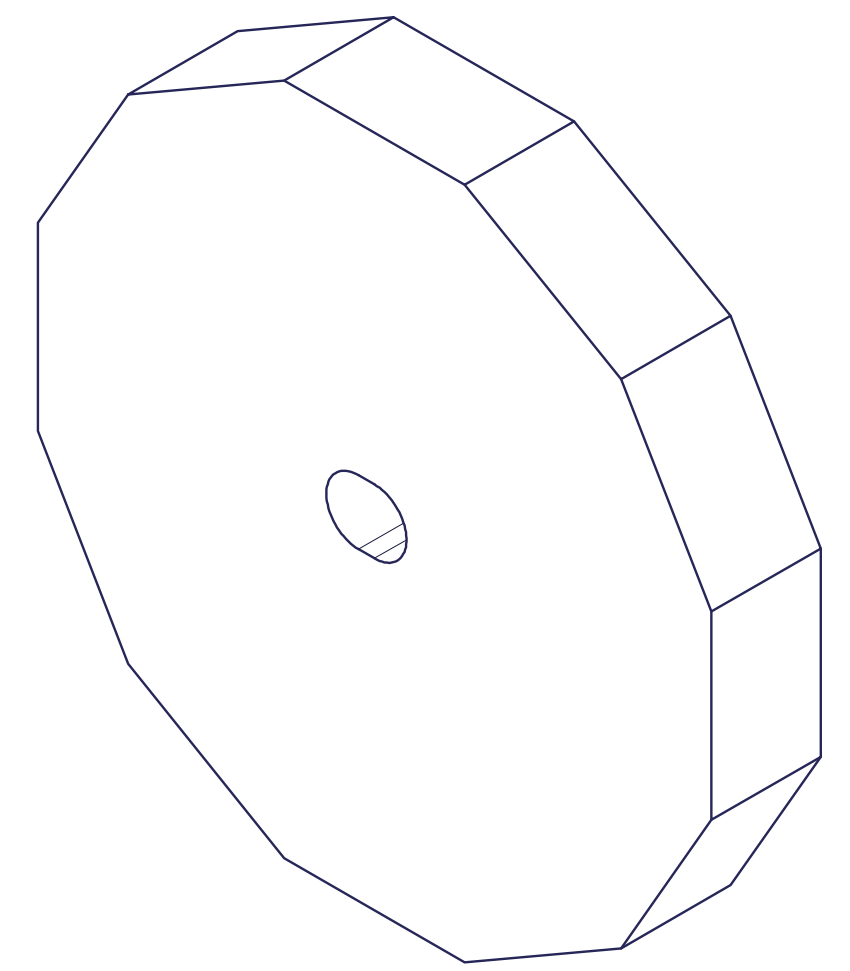
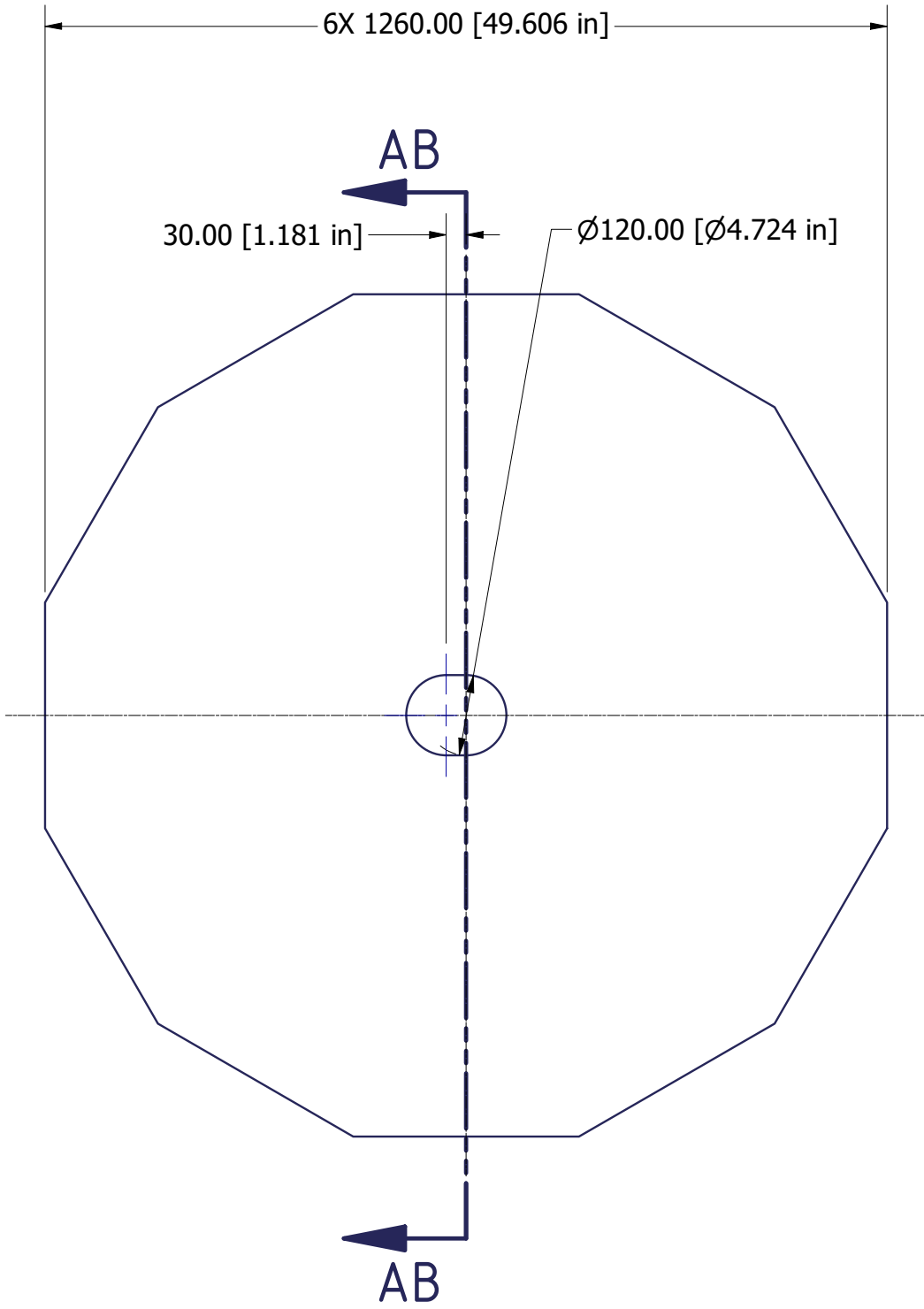


SECTION AA-AA
SCALE 1 / 14

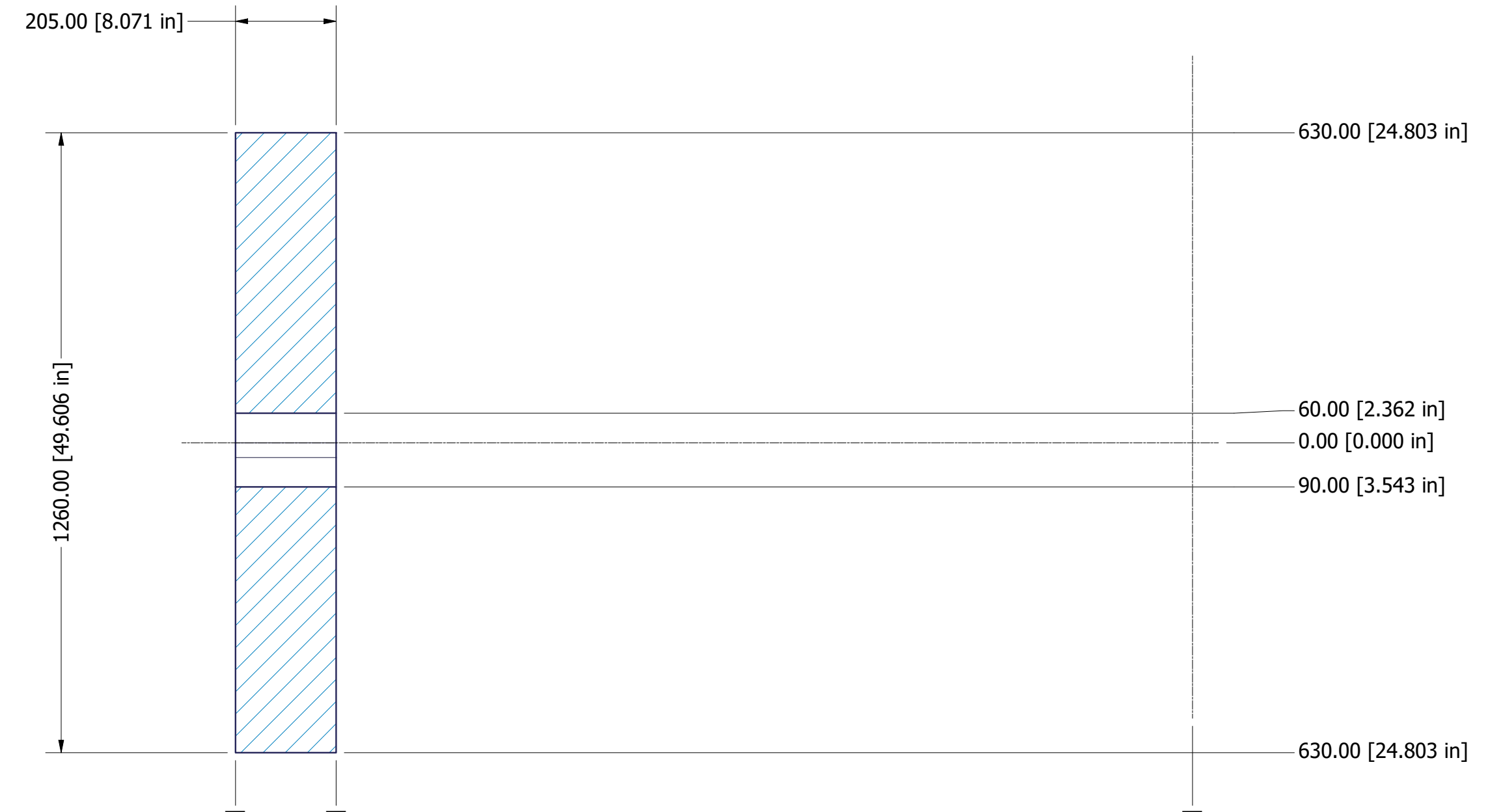
		BROOKHAVEN NATIONAL LABORATORY MANAGED BY BROOKHAVEN SCIENCE ASSOCIATES ON BEHALF OF THE U.S. DEPARTMENT OF ENERGY (UPTON, NY 11973)					
THIRD ANGLE PROJECTION INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.5-2019 (UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES (mm))		APPROV.	NAME	DATE	PROJECT		DESCRIPTION
DEFAULT TOLERANCES XXX ± 0.05 XXX ± 0.01 XXX ± 0.005 ANGLES ± 0.5		DESIGNER			SIZE		DRAWING NUMBER
FINISH		ENGINEER			Q.A. CAT.		REV.
BREAK EDGES MIN. 0.005 MAX. 0.015		SAFETY			A3		A
		SCALE: 1 / 14		WEIGHT: 9198 kg		SHEET: 14 OF 30	



NOTES:
1. UNITS ARE IN mm[in]



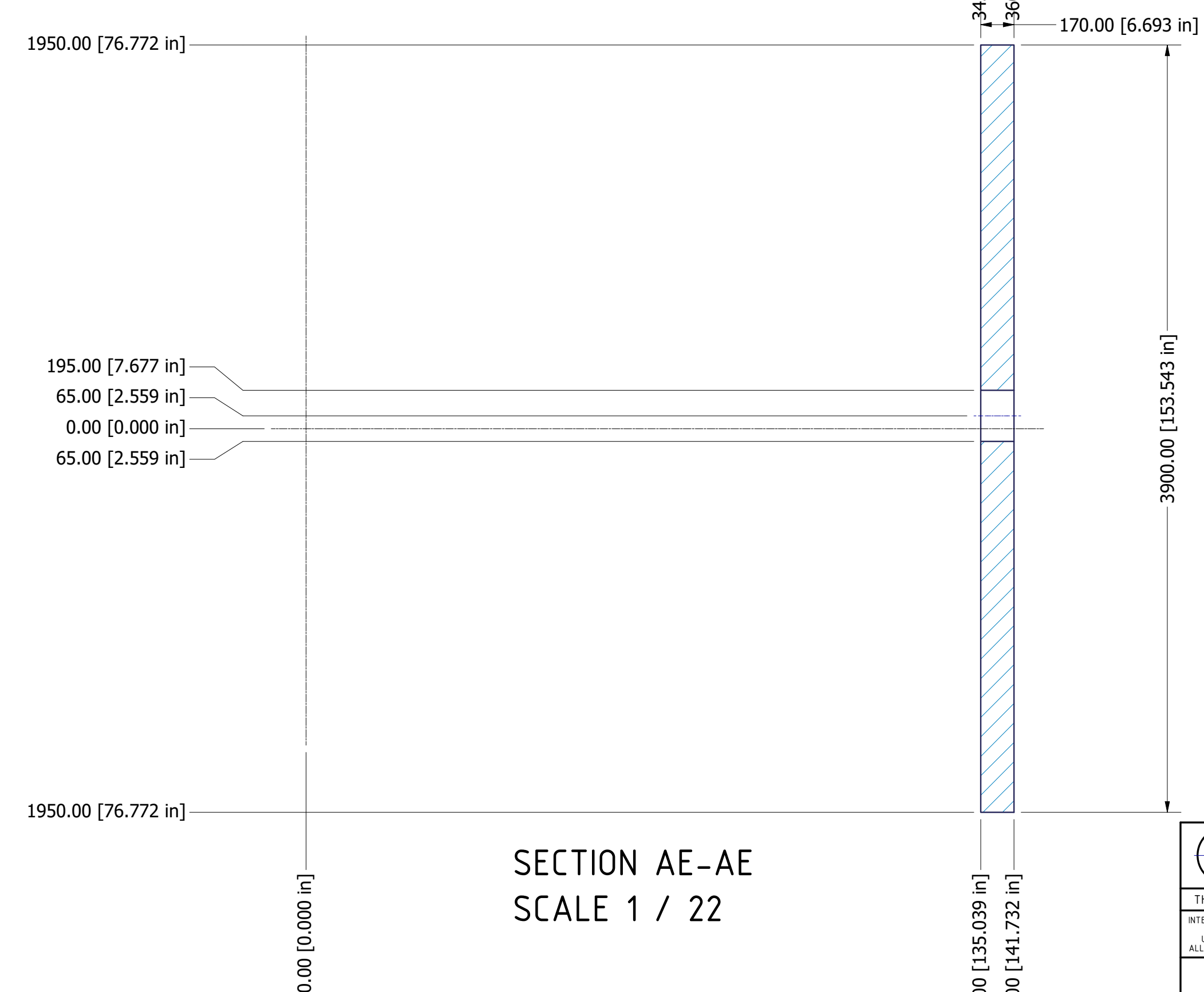
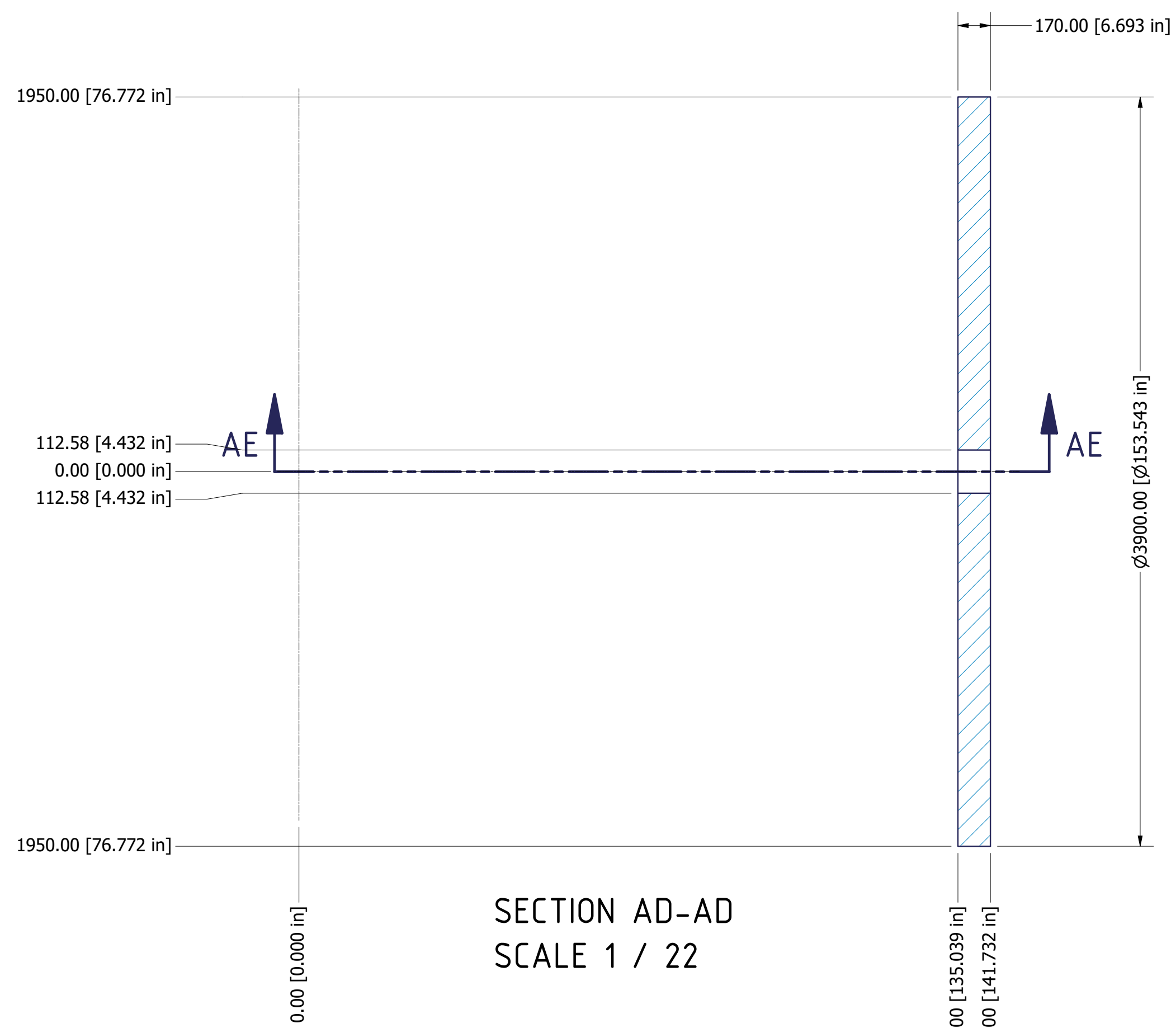
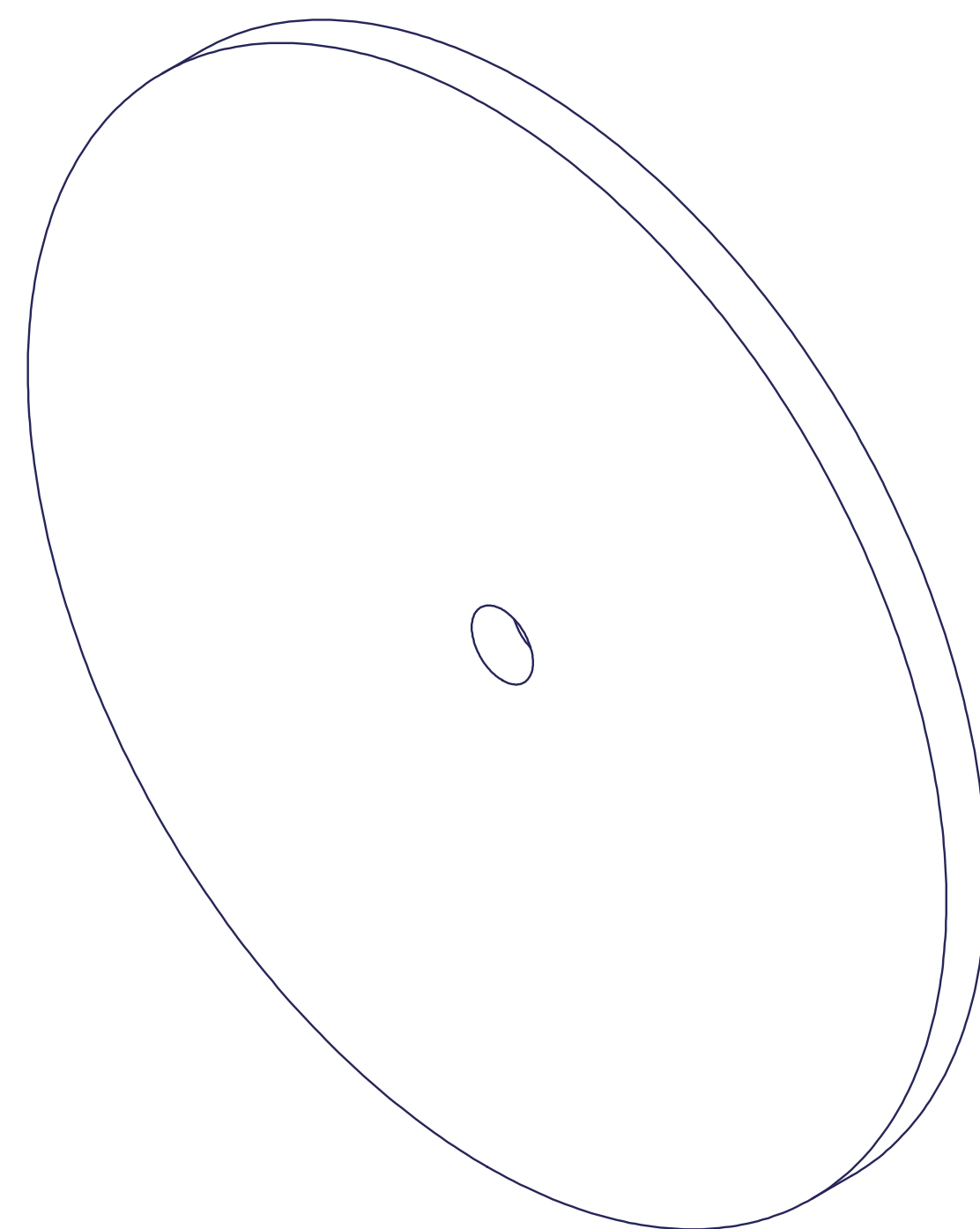
SECTION AB-AB
SCALE 1 / 10



SECTION AC-AC
SCALE 1 / 10

		BROOKHAVEN NATIONAL LABORATORY MANAGED BY BROOKHAVEN SCIENCE ASSOCIATES ON BEHALF OF THE U.S. DEPARTMENT OF ENERGY (UPTON, NY 11973)					
THIRD ANGLE PROJECTION INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.5-2018 (UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES (mm))		APPROVAL	NAME	DATE	PROJECT		DESCRIPTION
DESIGNER					DESIGNER		
CHECKER					CHECKER		
DRAWER					DRAWER		
MANAGER					MANAGER		
SCIENTIST					SCIENTIST		
S.A.					S.A.		
FINISH					FINISH		
BREAK EDGES HOL. 0.005 MAX. 0.015					BREAK EDGES HOL. 0.005 MAX. 0.015		
SAFETY					SAFETY		
SIZE		DRAWING NUMBER		REV.		REV.	
D		EMCal Backward A		A3		1 / 10 WEIGHT: 259 kg SHEET: 15 OF 30	

Technical drawing of a circular cross-section of a pipe. The drawing includes a vertical centerline with arrows at both ends labeled "AD". A horizontal line passes through the center of the circle. The outer diameter is labeled $\varnothing 3900.00$ [$\varnothing 153.543$ in]. The inner diameter is labeled $\varnothing 260.00$ [$\varnothing 10.236$ in]. A dimension of 65.00 [2.559 in] is shown from the centerline to the right edge of the circle.



SECTION AD-AD
SCALE 1 / 22

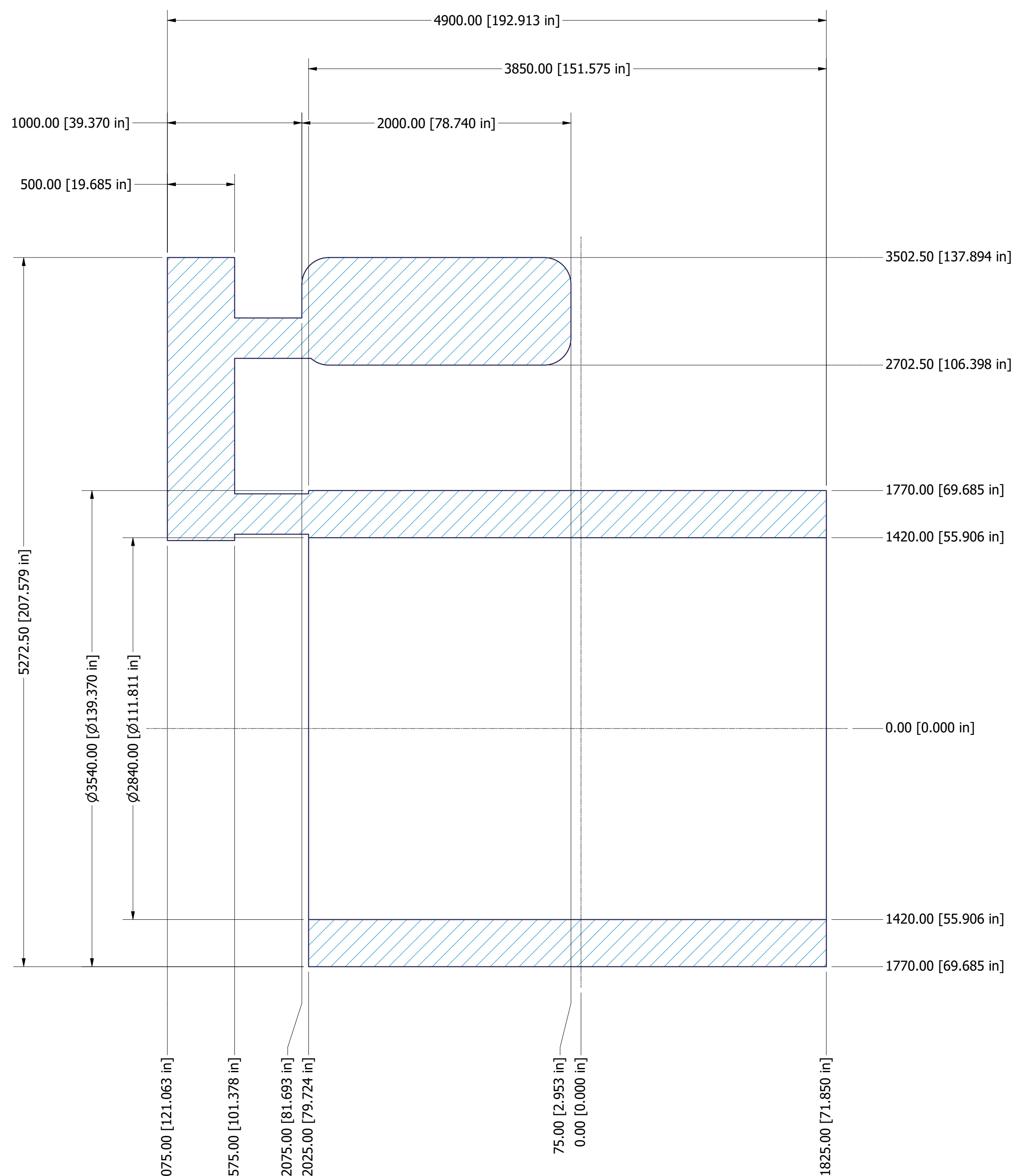
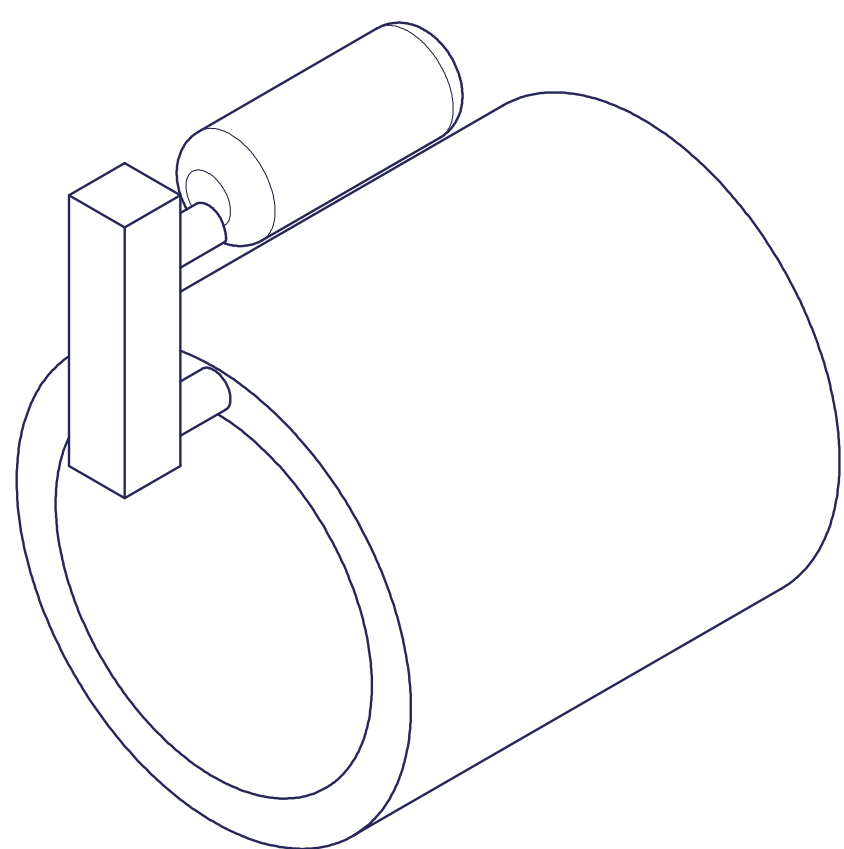
SECTION AE-AE
SCALE 1 / 22

	BROOKHAVEN NATIONAL LABORATORY MANAGED BY BROOKHAVEN SCIENCE SERVICES ON BEHALF OF THE U.S. DEPARTMENT OF ENERGY OFFICE, NE-1173			 Brookhaven National Laboratory
THIRD ANGLE PROJECTION	APPLY	NAME	DATE	PROJECT: EPIC
INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.5-2018 UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES (IMPL.)	DESIGNED			DESCRIPTION: EMCal Forward
	CHECKED			
	ENGINEER			
	MANAGER			
	SCIENTIST			
	QA			
	SAFETY			
DEFAULT TOLERANCES XX ± 0.05 XXX ± 0.01 XXXX ± 0.005 ANGLES ± .5°				SIZE: DRAWING NUMBER: EMCal Forward A
FINISH: ☒ MIN. 0.005 MAX. 0.015				REV: 30
				Q.A. CAT.: A3 SCALE: 1 / 22 WEIGHT: 2022 kg SHEET: 16 OF 30

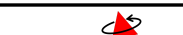
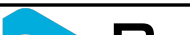
Technical drawing of a mechanical component, showing a cross-section with dimensions in inches and millimeters. The drawing includes a central vertical axis and a horizontal axis. The component features a large circular base with a central hole, a smaller circular section above it, and a rectangular section in the middle. Dimensions are provided for various parts of the component:

- Overall height: 3502.50 [137.894 in]
- Height of the top circular section: 3102.50 [122.146 in]
- Height of the middle rectangular section: 1307.50 [51.476 in]
- Height of the bottom circular section: 1595.00 [62.795 in]
- Overall width: 500.00 [19.685 in]
- Top circular section diameter: $\varnothing 800.00$ [$\varnothing 31.496$ in]
- Middle rectangular section diameter: $\varnothing 3540.00$ [$\varnothing 139.370$ in]
- Bottom circular section diameter: $\varnothing 2840.00$ [$\varnothing 111.811$ in]

The drawing also shows a force vector labeled "AF" acting on the top circular section, pointing downwards.



SECTION AF-AF
SCALE 1 / 24

	BROOKHAVEN NATIONAL LABORATORY MANAGED BY BROOKHAVEN SCIENCE ASSOCIATES ORDERING: 202-368-5400 (DEPARTMENT OF ENERGY) UPTOWN, NY 11973							Brookhaven National Laboratory	
THIRD ANGLE PROJECTION	APPVL	NAME	DATE	PROJECT:					
INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.5-2018 UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES (MM)	DESIGNED: CHECKED: ENGINEERED: MANAGER: IDENTIFY: D.A.:			DESCRIPTION:					
DEFAULT TOLERANCES X.XX ± 0.05 X.XX ± 0.01 X.XXX ± 0.005 ANGLES ± .5°	SIZE:			DRAWING NUMBER:					
FINISH:	BREAK EDGES:			G.A. CAT.:					
MIN. 0.005 MAX. 0.015	G.A.			A3 SCALE: 1 / 24 WEIGHT: 15072 kg SHEET: 17 OF 30					
				MAGNET					
				MAGNET A					
				REV. A					

8 7 6 5 4 3 2 1

NOTES:
1. UNITS ARE IN mm[in]

Ø3885.00 [Ø152.953 in]
Ø3759.00 [Ø147.992 in]
Ø2845.00 [Ø112.008 in]

1100.00 [43.307 in]

AG

279.50 [11.004 in]
100.00 [3.937 in]

4496.00 [177.008 in]

3805.51 [149.823 in]
2734.37 [107.652 in]

0.00 [0.000 in]

2361.50 [92.972 in]
2271.75 [89.439 in]
2171.75 [85.502 in]
2082.00 [81.969 in]

1855.00 [73.031 in]
1944.75 [76.565 in]
2044.75 [80.502 in]
2134.50 [84.035 in]

1863.01 [73.347 in]
1797.23 [70.757 in]
1311.87 [51.648 in]
0.00 [0.000 in]
1422.50 [56.004 in]
1879.50 [73.996 in]
1942.50 [76.476 in]

SECTION AG-AG
SCALE 1 / 24

THIRD ANGLE PROJECTION	APPVL	NAME	DATE
INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.5-2019 UNLESS OTHERWISE SPECIFIED. ALL DIMENSIONS ARE IN INCHES (MM).	DESIGNER:		
DEFAULT TOLERANCES: XXX ± 0.05 XXXX ± 0.01 XXXXX ± 0.005 ANGLES ± 0.5	CHECKER:		
FINISH: ✓ BREAK EDGES: MIN: 0.005 MAX: 0.015 SAFETY:	MANAGER:		
	ENGINEER:		
	DIA:		
	SAFETY:		

PROJECT: EPIC
DESCRIPTION: HCAL Support Rings
SIZE: D
DRAWING NUMBER: A3
SCALE: 1 / 24
WEIGHT: 1229 kg
SHEET: 18 OF 30

Brookhaven National Laboratory
EPIC

8 7 6 5 4 3 2 1

NOTES:
1. UNITS ARE IN mm[in]

1100.00 [43.307 in]

AG

AG

Ø3885.00 [Ø152.953 in]
Ø3759.00 [Ø147.992 in]
Ø2845.00 [Ø112.008 in]

279.50 [11.004 in]
100.00 [3.937 in]

4496.00 [177.008 in]

3805.51 [149.823 in]
2734.37 [107.652 in]

0.00 [0.000 in]

2361.50 [92.972 in]
2271.75 [89.439 in]
2171.75 [85.502 in]
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1311.87 [51.648 in]
0.00 [0.000 in]
1422.50 [56.004 in]
1879.50 [73.996 in]
1942.50 [76.476 in]

SECTION AG-AG
SCALE 1 / 24

8 7 6 5 4 3 2 1

THIRD ANGLE PROJECTION
INTERPRET IN GENERAL ACCORDANCE
WITH ASME Y14.5-2019
UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN INCHES (MM)

DESIGNER:
CHECKER:
MANAGER:
ENGINEER:
DRAFTER:

DATE:

FINISH: ☒ BREAK EDGES: MIN: 0.005 MAX: 0.015 SAFETY:

PROJECT:
DESCRIPTION:
SIZE: D
DRAWING NUMBER:
Q.A. CAT.: A3
SCALE: 1 / 24
WEIGHT: 1229 kg
SHEET: 18 OF 30

EPIC
HCAL Support Rings

Brookhaven
National Laboratory

REV: A

8 7 6 5 4 3 2 1

NOTES:
1. UNITS ARE IN mm[in]

1100.00 [43.307 in]

AG

AG

Ø3885.00 [Ø152.953 in]

Ø3759.00 [Ø147.992 in]

Ø2845.00 [Ø112.008 in]

279.50 [11.004 in]

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2134.50 [84.035 in]

1863.01 [73.347 in]

1797.23 [70.757 in]

1311.87 [51.648 in]

0.00 [0.000 in]

1422.50 [56.004 in]

1879.50 [73.996 in]

1942.50 [76.476 in]

SECTION AG-AG
SCALE 1 / 24

THIRD ANGLE PROJECTION

INTERPRET IN GENERAL ACCORDANCE
WITH ASME Y14.5-2019
UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN INCHES (MM)

DESIGNER: _____
CHECKER: _____
MANAGER: _____
ENGINEER: _____
DRAFTER: _____

DATE: _____

DESCRIPTION: _____

SIZE: _____

DRAWING NUMBER: _____

REV: _____

Q.A. CAT.: _____

A3

SCALE: 1 / 24

WEIGHT: 1229 kg

SHEET: 18 OF 30

BROOKHAVEN NATIONAL LABORATORY
MANAGED BY BROOKHAVEN SCIENCE ASSOCIATES
ON BEHALF OF THE U.S. DEPARTMENT OF ENERGY
UPTON, NY 11973

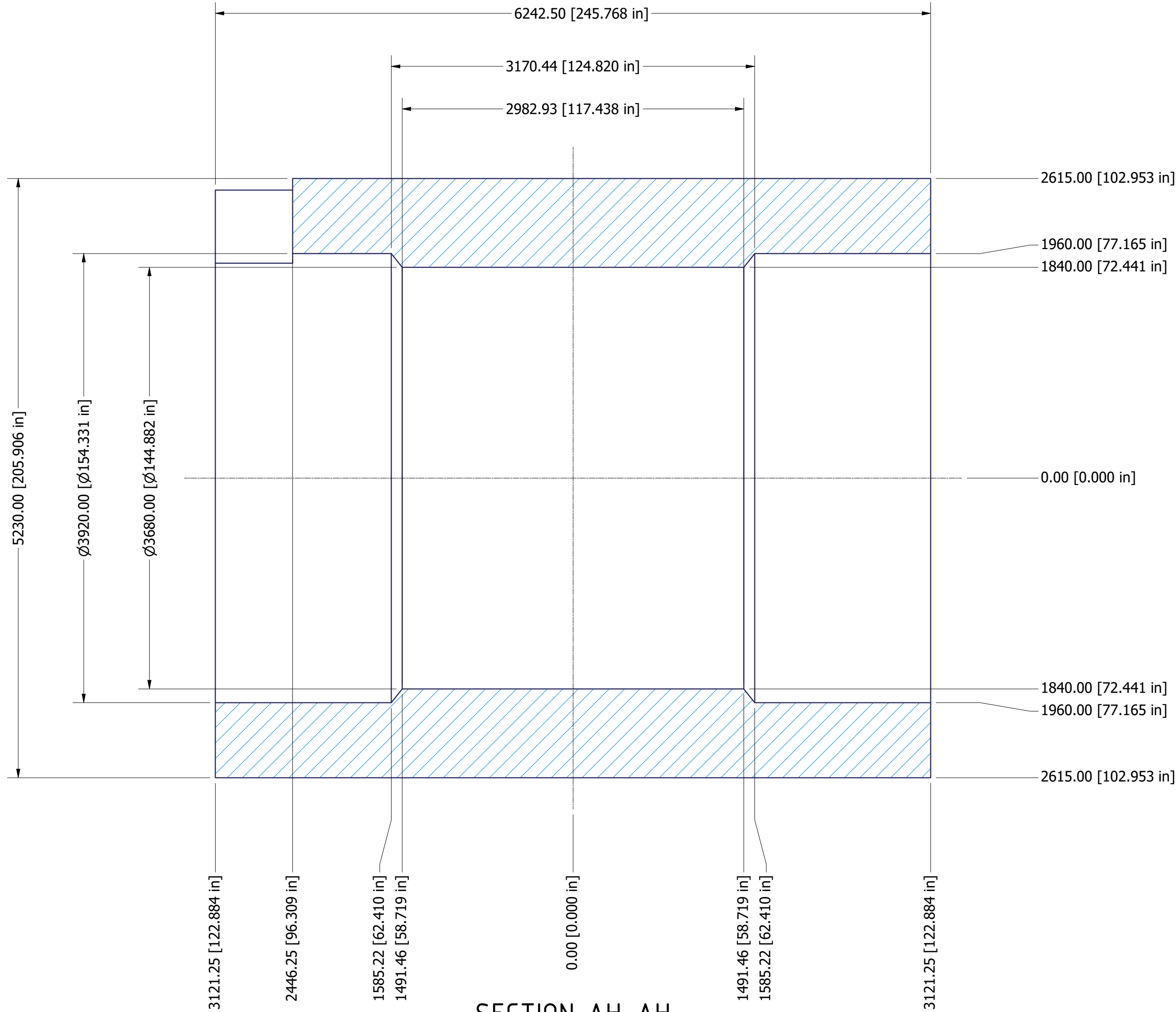
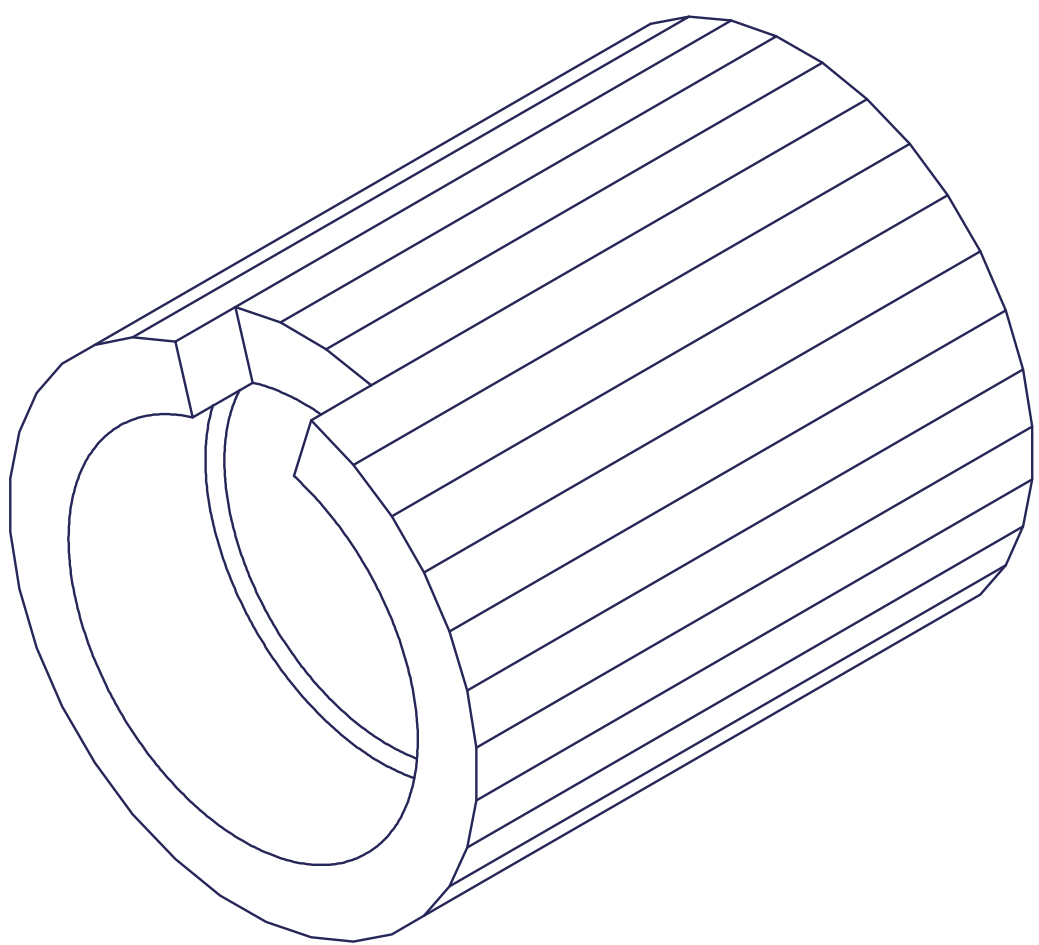
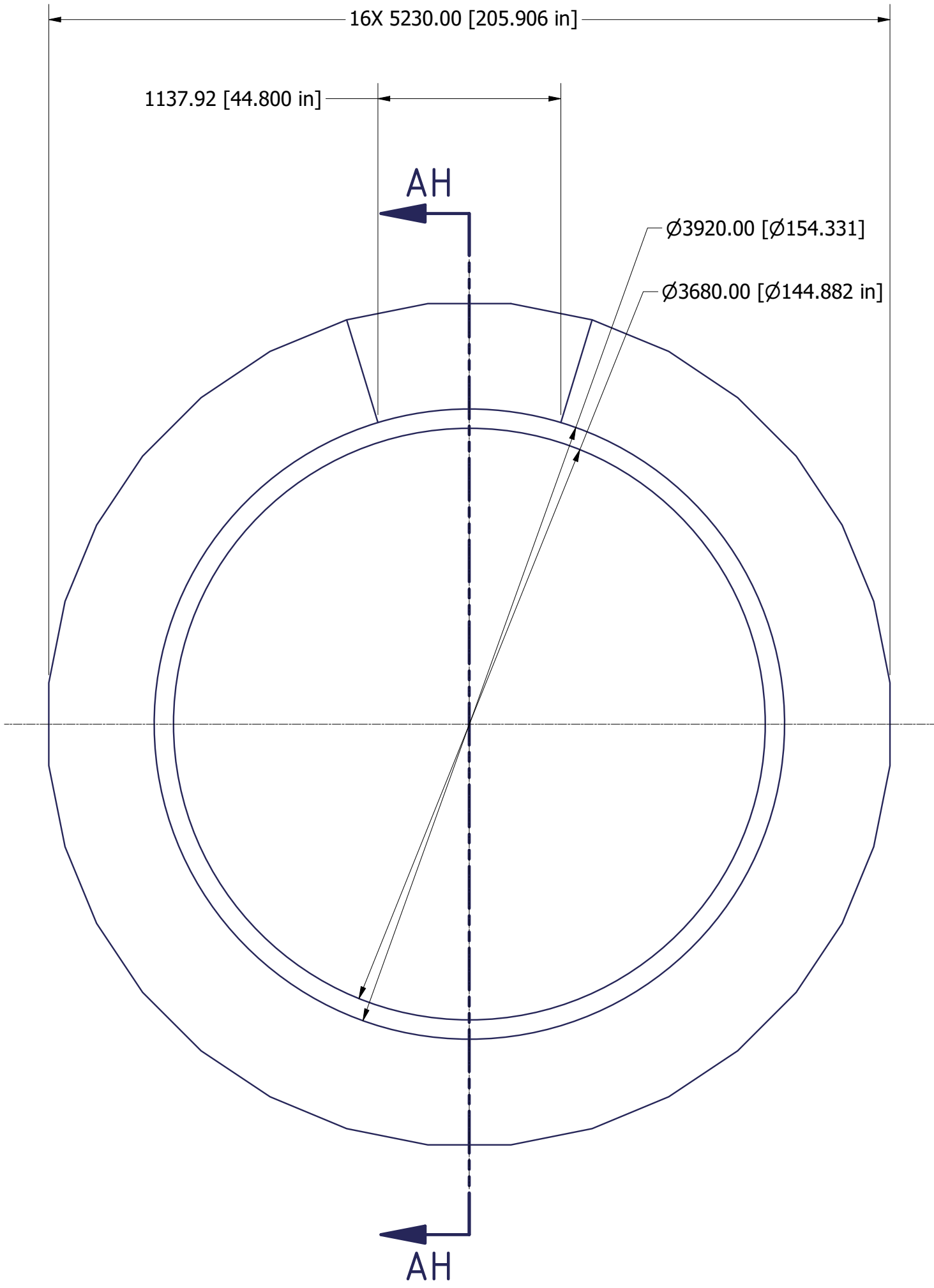
EPIC

Brookhaven
National Laboratory

HCAL Support Rings

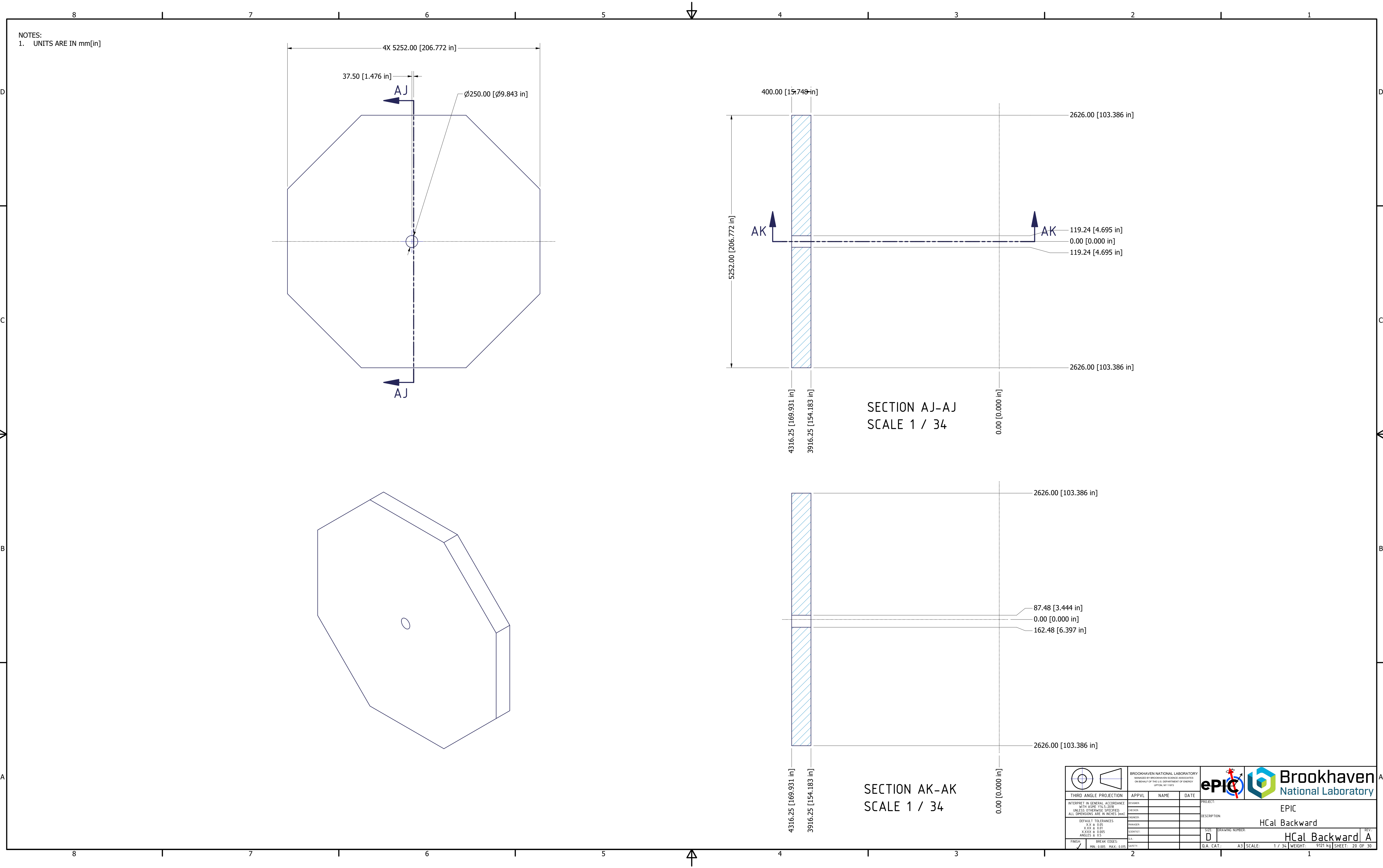
HCAL Support Rings

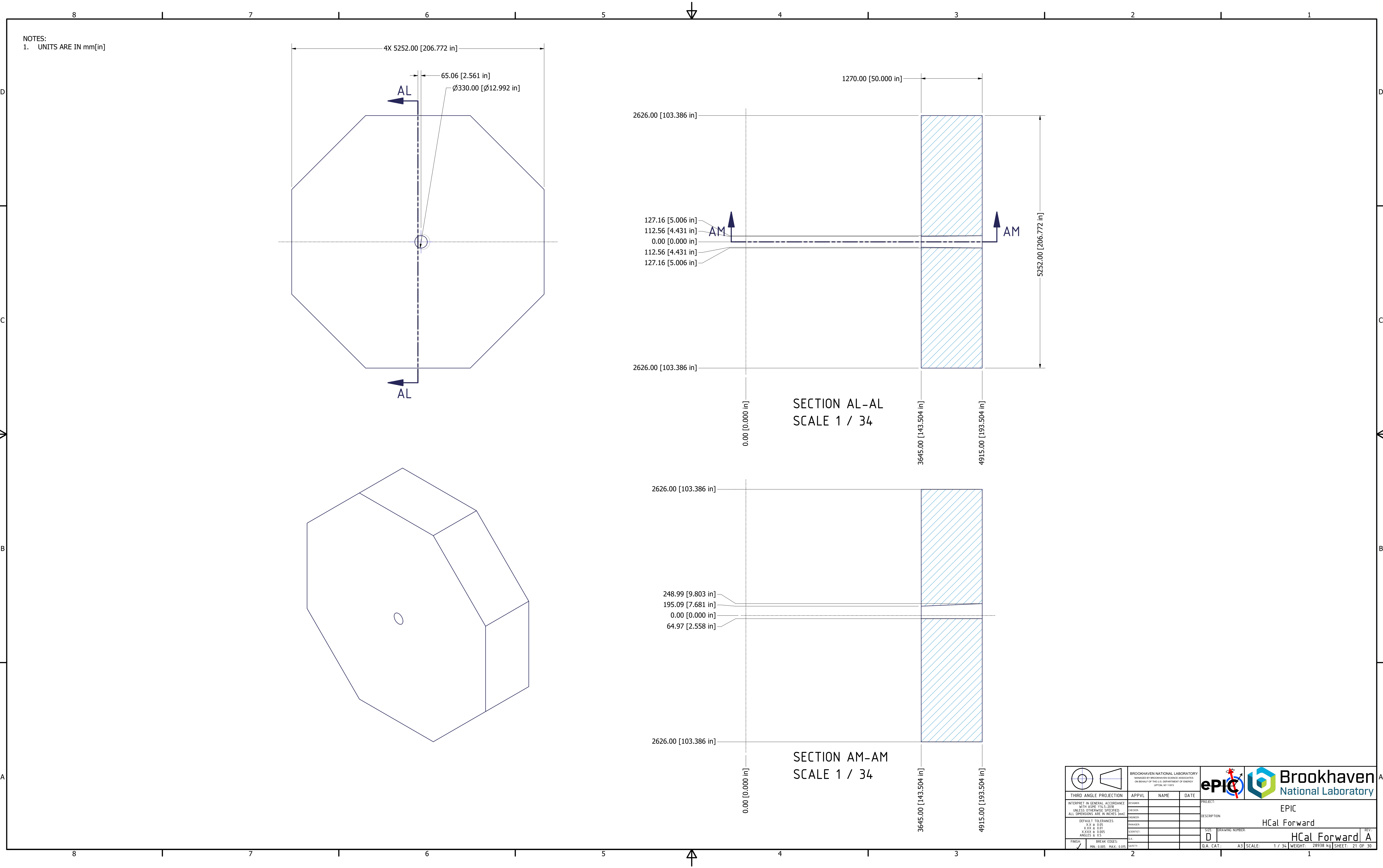
NOTES:
1. UNITS ARE IN mm[in]



SECTION AH-AH
SCALE 1 / 30

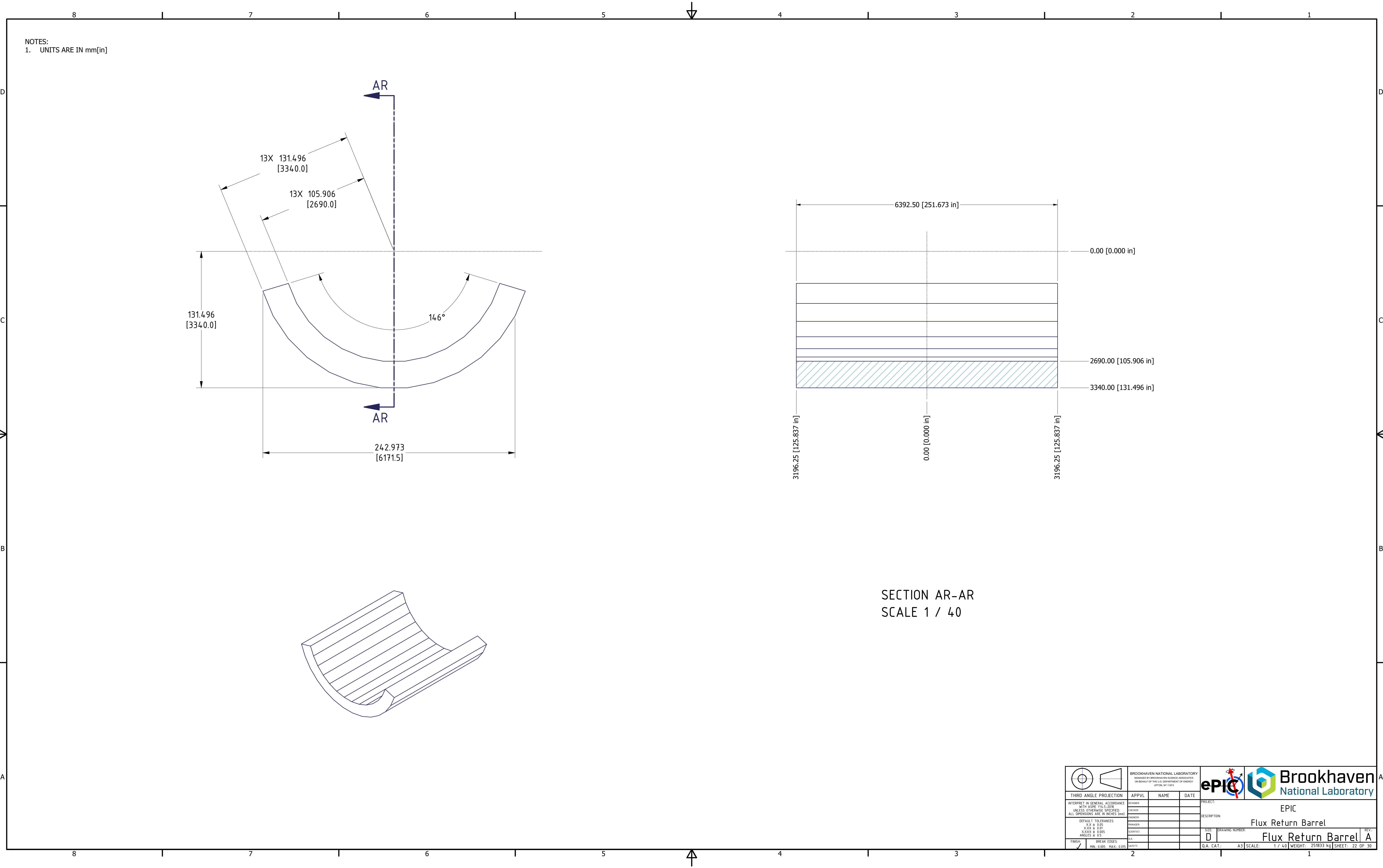
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THIRD ANGLE PROJECTION		APPV'L	NAME	DATE	PROJECT		
INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.5-2018 (UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES (mm))		DESIGNER			DESCRIPTION		
DEFAULT TOLERANCES XXX ± 0.05 XXX ± 0.01 XXX ± 0.005 ANGLES ± 0.5		CHECKER			SIZE: DRAWING NUMBER:		
FINISH		MANAGER			Q.A. CAT.: A3 SCALE: 1 / 30 WEIGHT: 63009 kg SHEET: 19 OF 30		
BREAK EDGES MIN. 0.005 MAX. 0.015		SCIENTIST			REV.:		
		SAFETY			HCal Barrel A		





NOTES:
1. UNITS ARE IN mm[in]

		BROOKHAVEN NATIONAL LABORATORY MANAGED BY BROOKHAVEN SCIENCE ASSOCIATES ON BEHALF OF THE U.S. DEPARTMENT OF ENERGY (UPTON, NY 11973)					 Brookhaven National Laboratory	
THIRD ANGLE PROJECTION		APPROVAL	NAME	DATE	PROJECT: EPIC			
INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.5-2018 (UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES (mm))		DRAWN			DESCRIPTION: HCal Forward			
		CHECKED			SIZE: D			
		MANAGER			DRAWING NUMBER: HCal Forward A			
		SCIENTIST			Q.A. CAT.: A3			
DEFAULT TOLERANCES XXX ± 0.05 XXX ± 0.01 XXX ± 0.005 ANGLES ± 0.5		SAFETY			SCALE: 1 / 34		WEIGHT: 28938 kg	
FINISH: /	BREAK EDGES: MIN. 0.005 MAX. 0.015				SHEET: 21 OF 30			

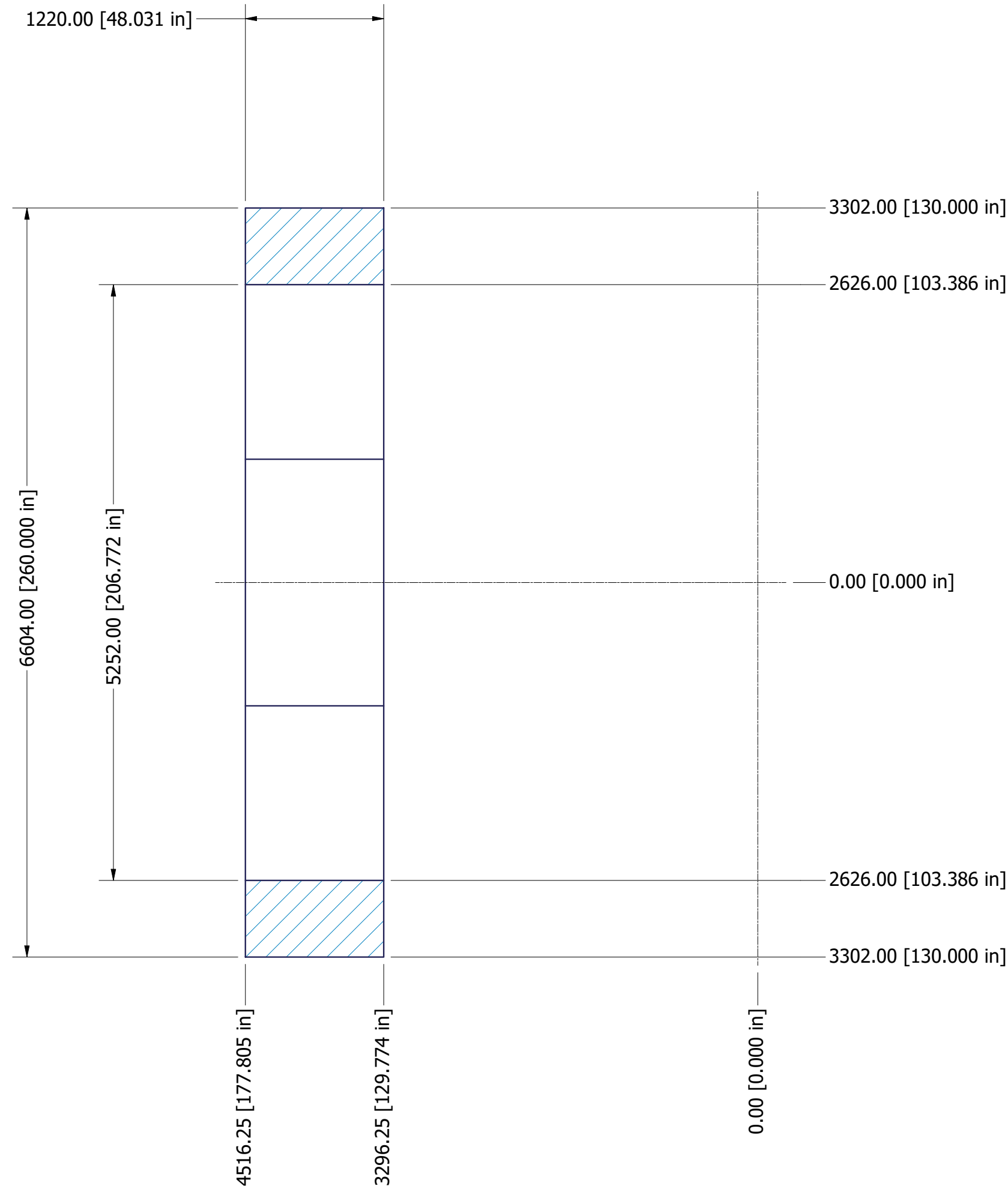
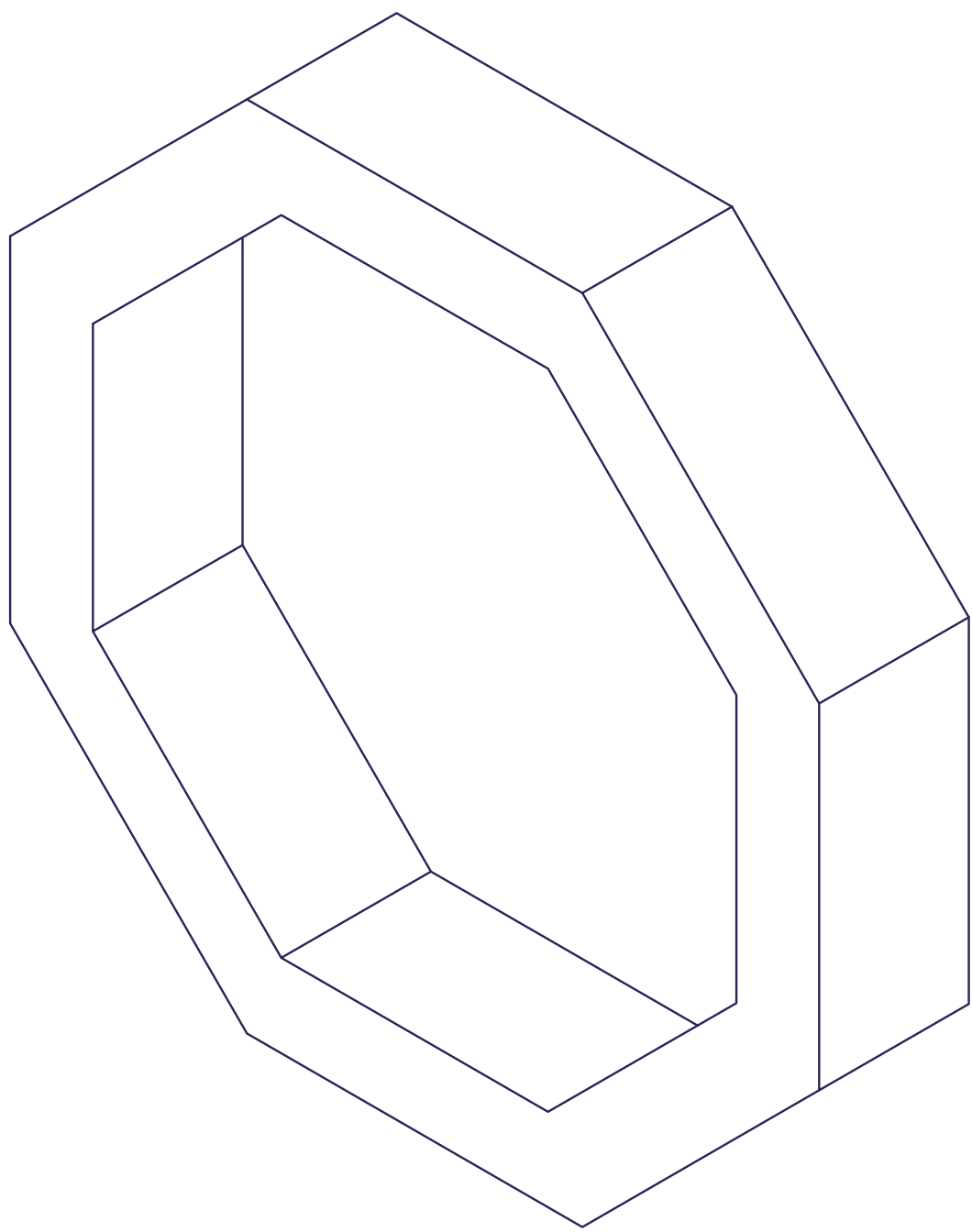
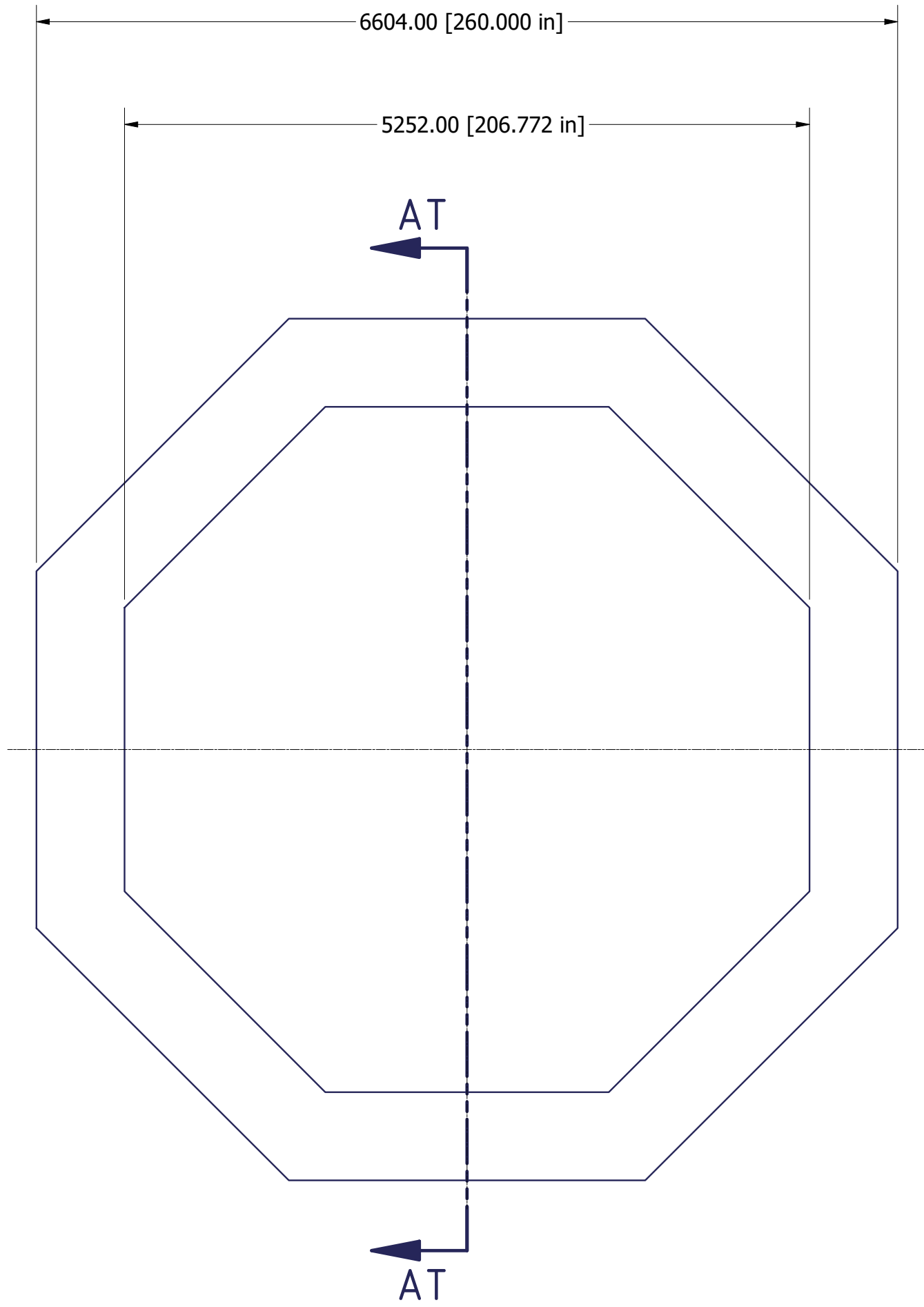


NOTES:
1. UNITS ARE IN mm[in]

SECTION AR-AR
SCALE 1 / 40

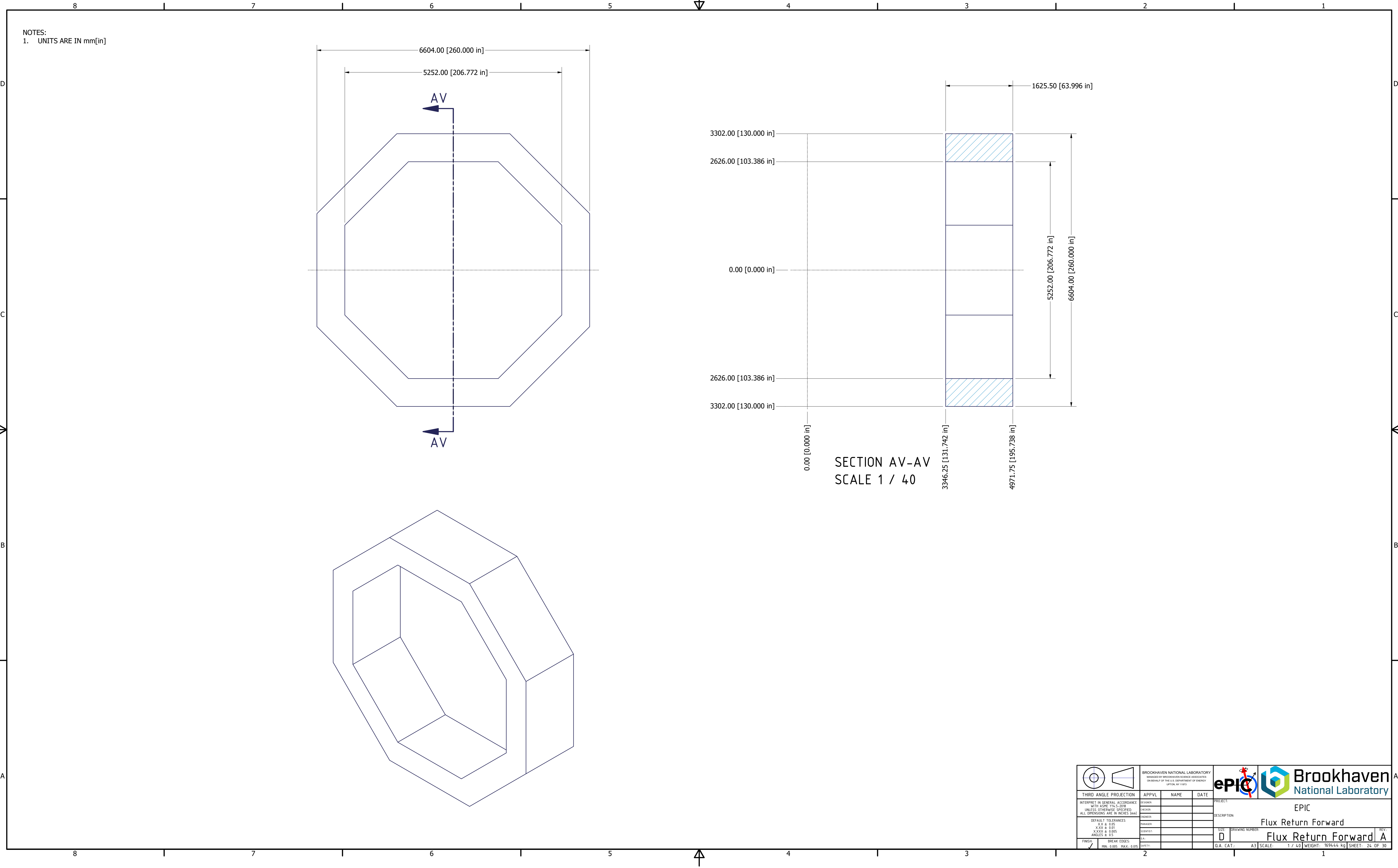
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THIRD ANGLE PROJECTION INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.5-2018 (UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES [mm])		APPROVED	NAME	DATE	PROJECT		DESCRIPTION
DEFAULT TOLERANCES XXX ± 0.05 XXX ± 0.01 XXX ± 0.005 ANGLES ± 0.5		DESIGNER			Flux Return Barrel		REV.:
FINISH		CHECKER			Flux Return Barrel		A
BREAK EDGES MIN. 0.005 MAX. 0.015		MANAGER			Q.A. CAT.:		A3
		SCIENTIST			SCALE:		1 / 40
		SAFETY			WEIGHT:		251833 kg
					SHEET:		22 OF 30

NOTES:
1. UNITS ARE IN mm[in]



SECTION AT-AT
SCALE 1 / 40

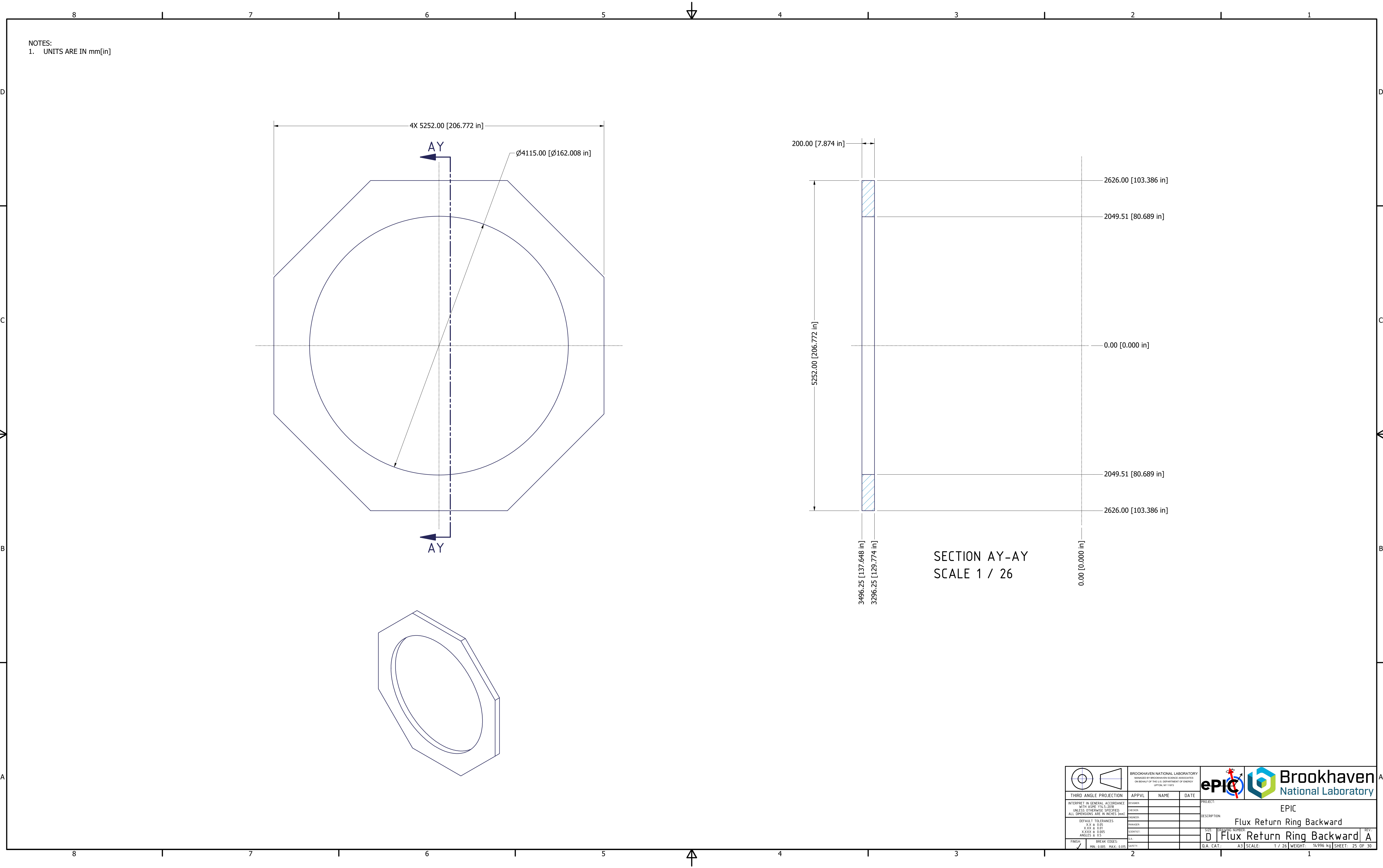
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THIRD ANGLE PROJECTION		APPVL	NAME	DATE	PROJECT		
INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.5-2018 (UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES (mm))		CHECKER			DESCRIPTION		
DEFAULT TOLERANCES XXX ± 0.05 XXX ± 0.01 XXX ± 0.005 ANGLES ± 0.5		MANAGER			Flux Return Backward		
FINISH		SCIENTIST			SIZE	DRAWING NUMBER	REV.
BREAK EDGES MIN. 0.005 MAX. 0.015		SAFETY			D	Flux Return Backward A	
		Q.A. CAT.	A3	SCALE	1 / 40	WEIGHT	127174 kg
						SHEET: 23 OF 30	



NOTES:
1. UNITS ARE IN mm[in]

SECTION AV-AV
SCALE 1 / 40

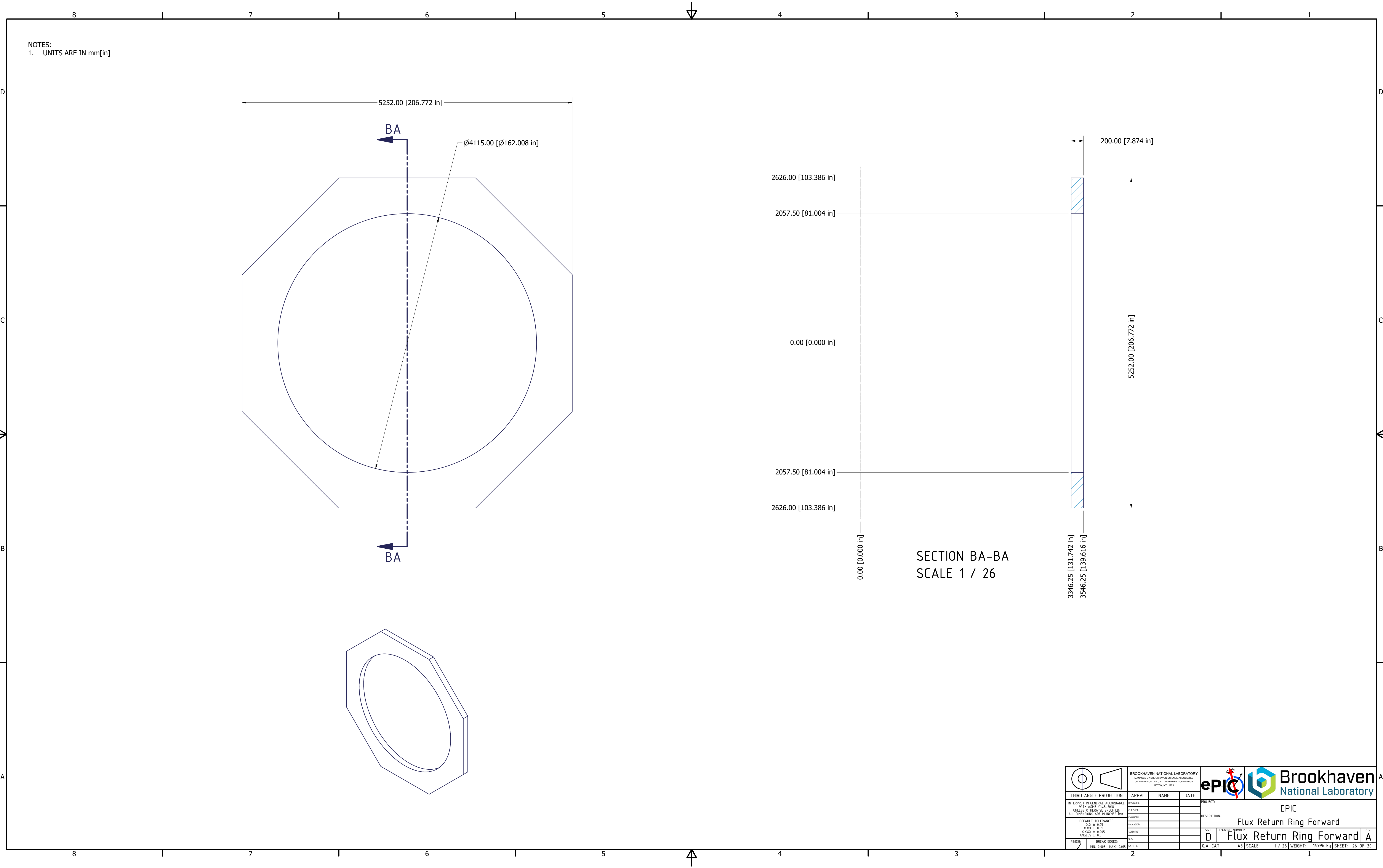
		BROOKHAVEN NATIONAL LABORATORY MANAGED BY BROOKHAVEN SCIENCE ASSOCIATES ON BEHALF OF THE U.S. DEPARTMENT OF ENERGY (UPTON, NY 11973)						
THIRD ANGLE PROJECTION		APPVL	NAME	DATE	PROJECT			
INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.5-2018 (UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES (mm))		DESIGNER			DESCRIPTION			
DEFAULT TOLERANCES XXX ± 0.05 XXX ± 0.01 XXX ± 0.005 ANGLES ± 0.5		CHECKER			REV.			
FINISH		MANAGER			D			
BREAK EDGES MIN. 0.005 MAX. 0.015		SCIENTIST			Flux Return Forward			
		QA			Flux Return Forward			
		SAFETY			A			
		Q.A. CAT.		A3	SCALE: 1 / 40		WEIGHT: 1694.44 kg	SHEET: 24 OF 30



NOTES:
1. UNITS ARE IN mm[in]

SECTION AY-AY
SCALE 1 / 26

		BROOKHAVEN NATIONAL LABORATORY MANAGED BY BROOKHAVEN SCIENCE ASSOCIATES ON BEHALF OF THE U.S. DEPARTMENT OF ENERGY (UPTON, NY 11973)					
THIRD ANGLE PROJECTION INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.5-2018 (UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES (mm))		APPROVED	NAME	DATE	PROJECT		DESCRIPTION
DEFAULT TOLERANCES XXX ± 0.05 XXX ± 0.01 XXX ± 0.005 ANGLES ± 0.5		DESIGNED			EPIC		Flux Return Ring Backward
FINISH: 7		CHECKED			SIZE: D		Flux Return Ring Backward A
BREAK EDGES MIN. 0.005 MAX. 0.015		MANAGER			Q.A. CAT: A3		SCALE: 1 / 26 WEIGHT: 14,996 kg SHEET: 25 OF 30
		SCIENTIST					
		DRAWN					



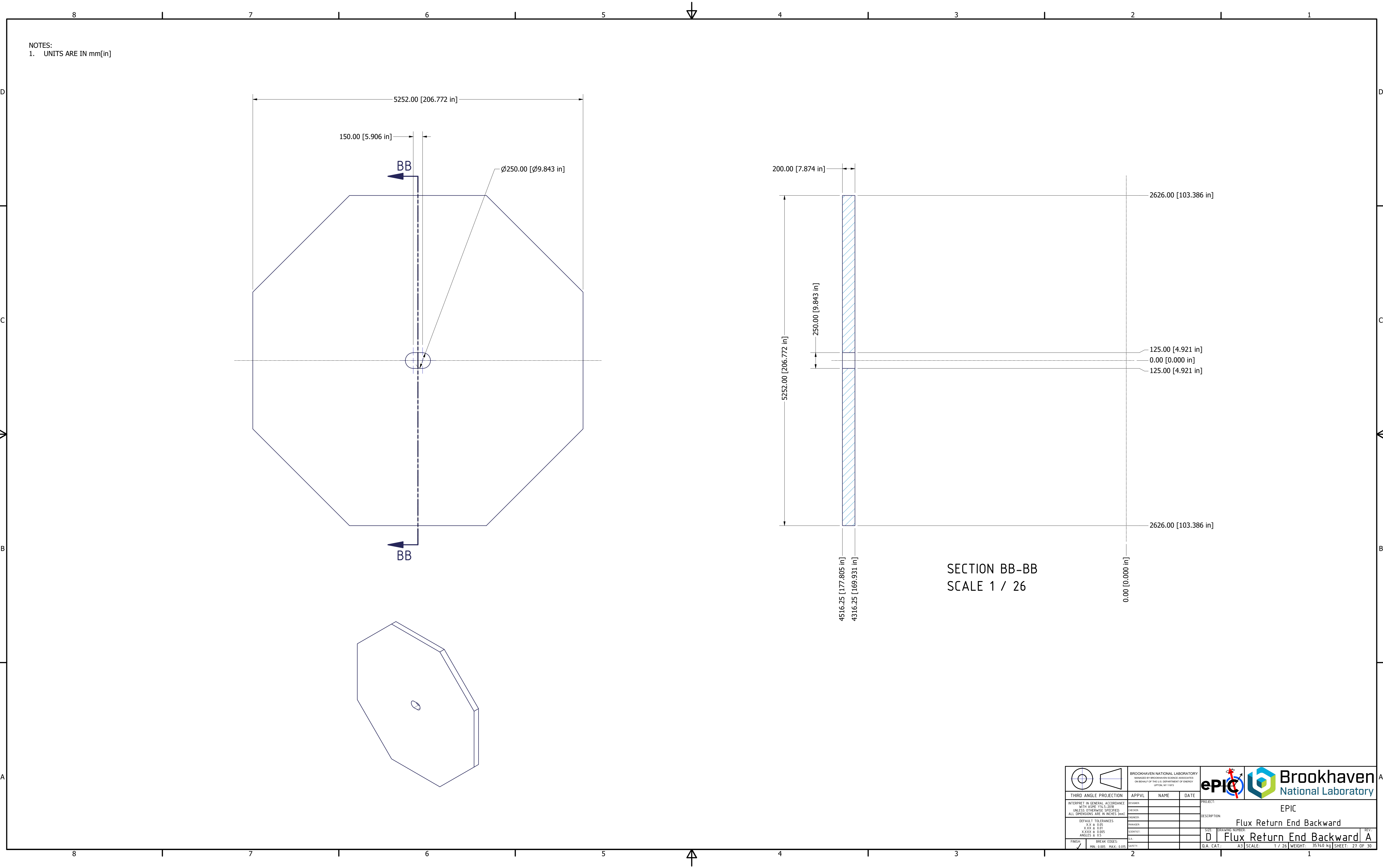
NOTES:
1. UNITS ARE IN mm[in]

		BROOKHAVEN NATIONAL LABORATORY MANAGED BY BROOKHAVEN SCIENCE ASSOCIATES ON BEHALF OF THE U.S. DEPARTMENT OF ENERGY (UPTON, NY 11973)					
THIRD ANGLE PROJECTION INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.5-2018 (UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES (mm))		APPROVED	NAME	DATE	PROJECT		DESCRIPTION
DEFAULT TOLERANCES XXX ± 0.05 XXX ± 0.01 XXX ± 0.005 ANGLES ± 0.5		DRAWN	CHECKED	DATE	DESIGNER		REVISION
FINISH		SCALE	DATE	DATE	Q.A. CAT.		REV.
BREAK EDGES MIN. 0.005 MAX. 0.015		SCALE	DATE	DATE	Q.A. CAT.		REV.

Flux Return Ring Forward

D Flux Return Ring Forward A

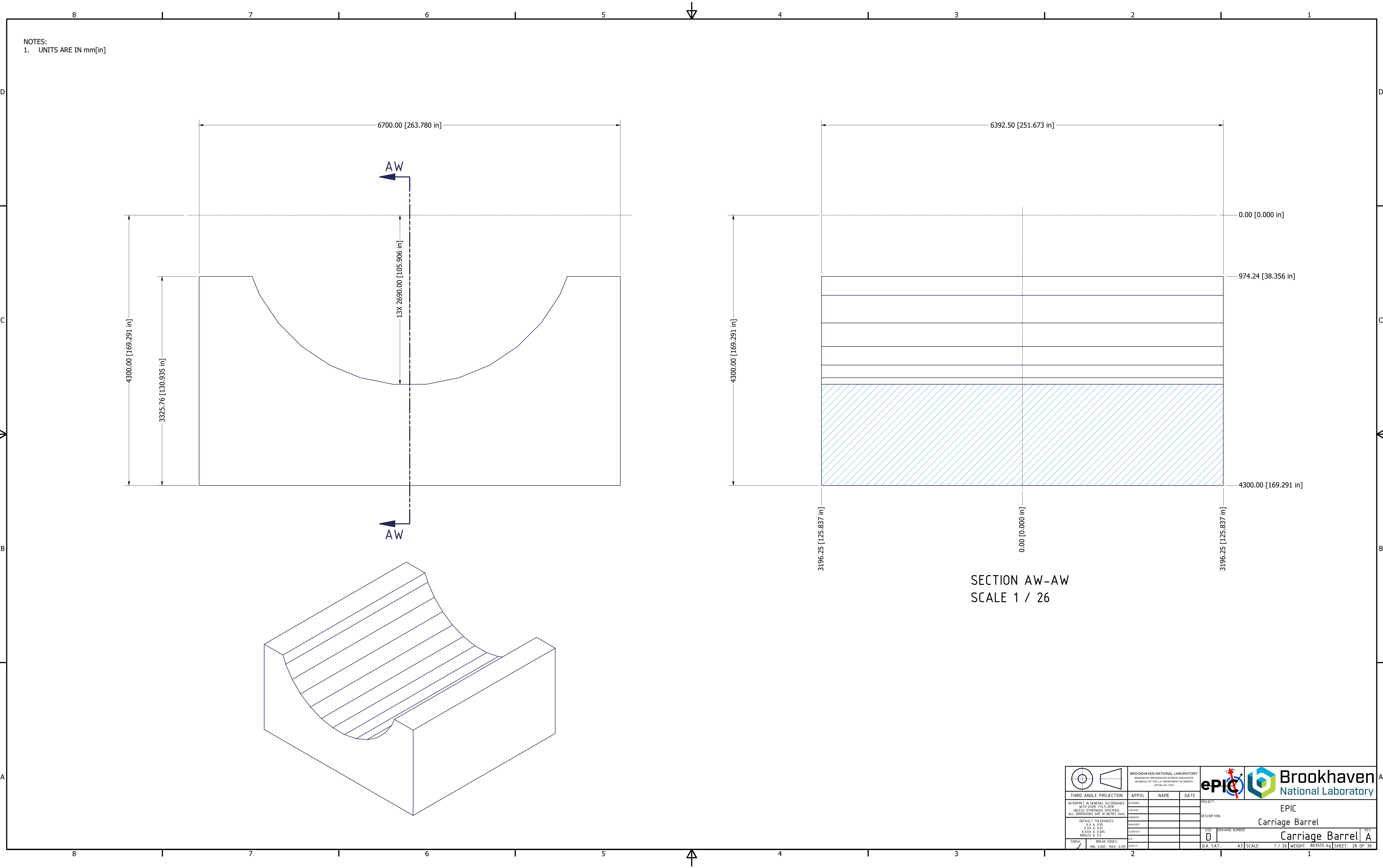
Q.A. CAT. A3 SCALE: 1 / 26 WEIGHT: 14996 kg SHEET: 26 OF 30



NOTES:
1. UNITS ARE IN mm[in]

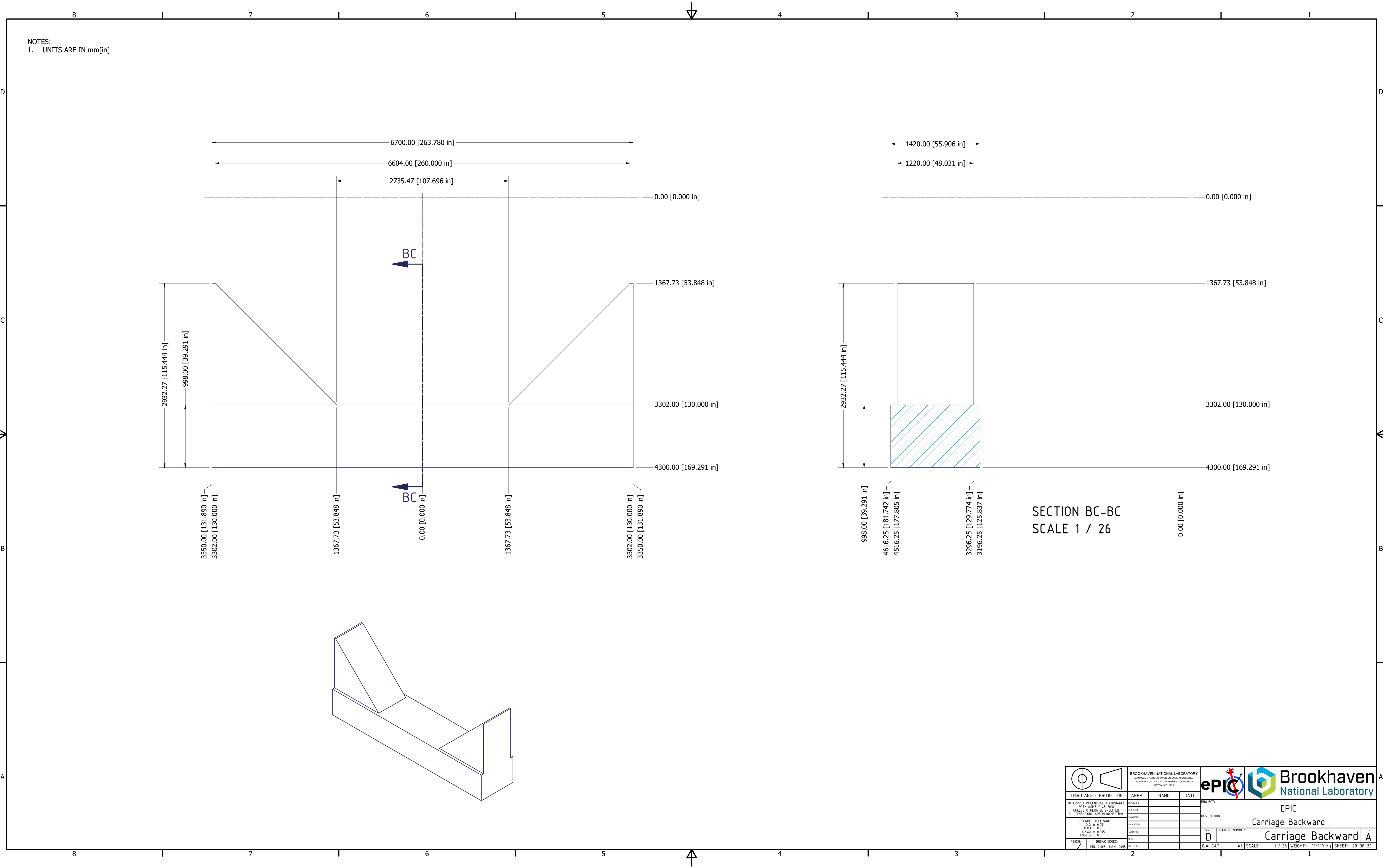
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THIRD ANGLE PROJECTION		APPROVAL	NAME	DATE	PROJECT		
INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.5-2010 (UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES (mm))		DESIGNER			DESCRIPTION		
DEFAULT TOLERANCES XXX ± 0.05 XXX ± 0.01 XXX ± 0.005 ANGLES ± 0.5		CHECKER			REV.		
FINISH		MANAGER			Q.A. CAT.		
BREAK EDGES MIN. 0.005 MAX. 0.015		SCIENTIST			SCALE		
		SAFETY			WEIGHT		
					SHEET		

Flux Return End Backward A



NOTES:
1. UNITS ARE IN mm[in]

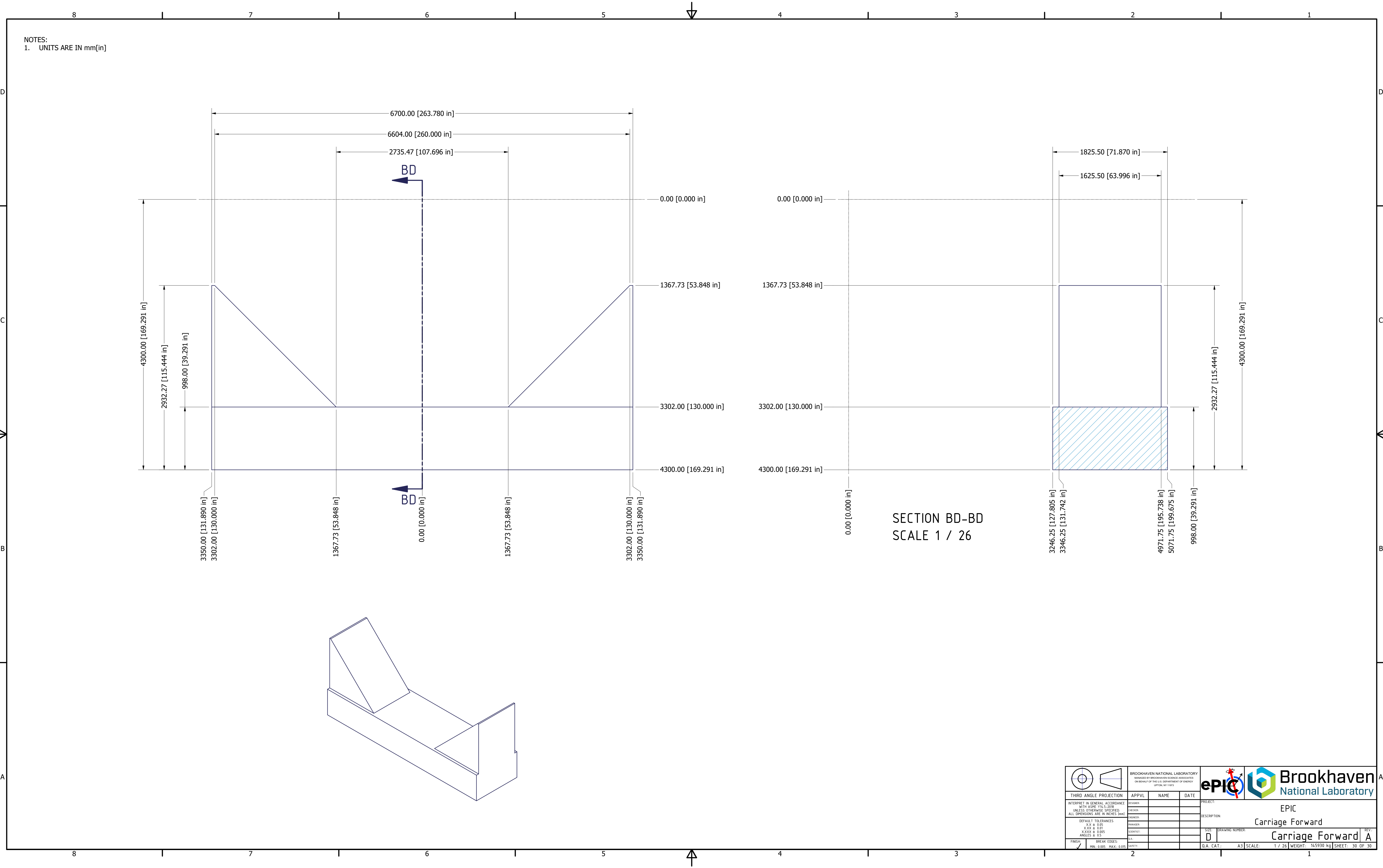
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THIRD ANGLE PROJECTION		APPVL	NAME	DATE	PROJECT		
INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.5-2010 (UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES (mm))		DESIGNER			DESCRIPTION		
DEFAULT TOLERANCES XXX ± 0.05 XXX ± 0.01 XXX ± 0.005 ANGLES ± 0.5		CHECKER			DRAWING NUMBER		
FINISH		MANAGER			Q.A. CAT.		
BREAK EDGES MIN. 0.005 MAX. 0.015		SCIENTIST			SCALE		
		SAFETY			WEIGHT		
					SHEET		
					REV.		
					A		



NOTES:
1. UNITS ARE IN mm[in]

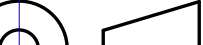
SECTION BC-BC
SCALE 1 / 26

		BROOKHAVEN NATIONAL LABORATORY MANAGED BY BROOKHAVEN SCIENCE ASSOCIATES ON BEHALF OF THE U.S. DEPARTMENT OF ENERGY (UPTON, NY 11973)					
THIRD ANGLE PROJECTION INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.5-2018 (UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES (mm))		APPROVAL	NAME	DATE	PROJECT		DESCRIPTION
DEFAULT TOLERANCES XXX ± 0.05 XXX ± 0.01 XXX ± 0.005 ANGLES ± 0.5		DESIGNER			EPOCH		Carriage Backward
FINISH		MANAGER			SIZE		Carriage Backward
BREAK EDGES MIN. 0.005 MAX. 0.015		SCIENTIST			DRAWING NUMBER		A
		QA			Q.A. CAT.		A3
		SAFETY			SCALE		1 / 26
					WEIGHT		112145 kg
					SHEET		29 OF 30



NOTES:
1. UNITS ARE IN mm[in]

SECTION BD-BD
SCALE 1 / 26

		BROOKHAVEN NATIONAL LABORATORY MANAGED BY BROOKHAVEN SCIENCE ASSOCIATES ON BEHALF OF THE U.S. DEPARTMENT OF ENERGY UPTON, NY 11973						Brookhaven National Laboratory	
THIRD ANGLE PROJECTION		APPROVAL	NAME	DATE	PROJECT				
INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.5-2018 (UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES (mm))					EPIC				
DEFAULT TOLERANCES XXX ± 0.05 XXX ± 0.01 XXX ± 0.005 ANGLES ± 0.5					DESCRIPTION				
					Carriage Forward				
					SIZE DRAWING NUMBER:				
					Carriage Forward A				
					REV: A				
FINISH		BREAK EDGES MIN. 0.005 MAX. 0.015			Q.A. CAT.: A3 SCALE: 1 / 26 WEIGHT: 145930 kg SHEET: 30 OF 30				