

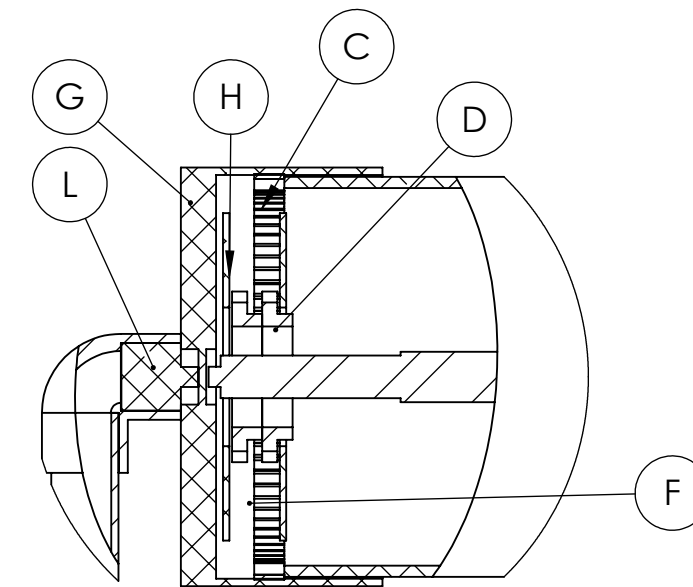
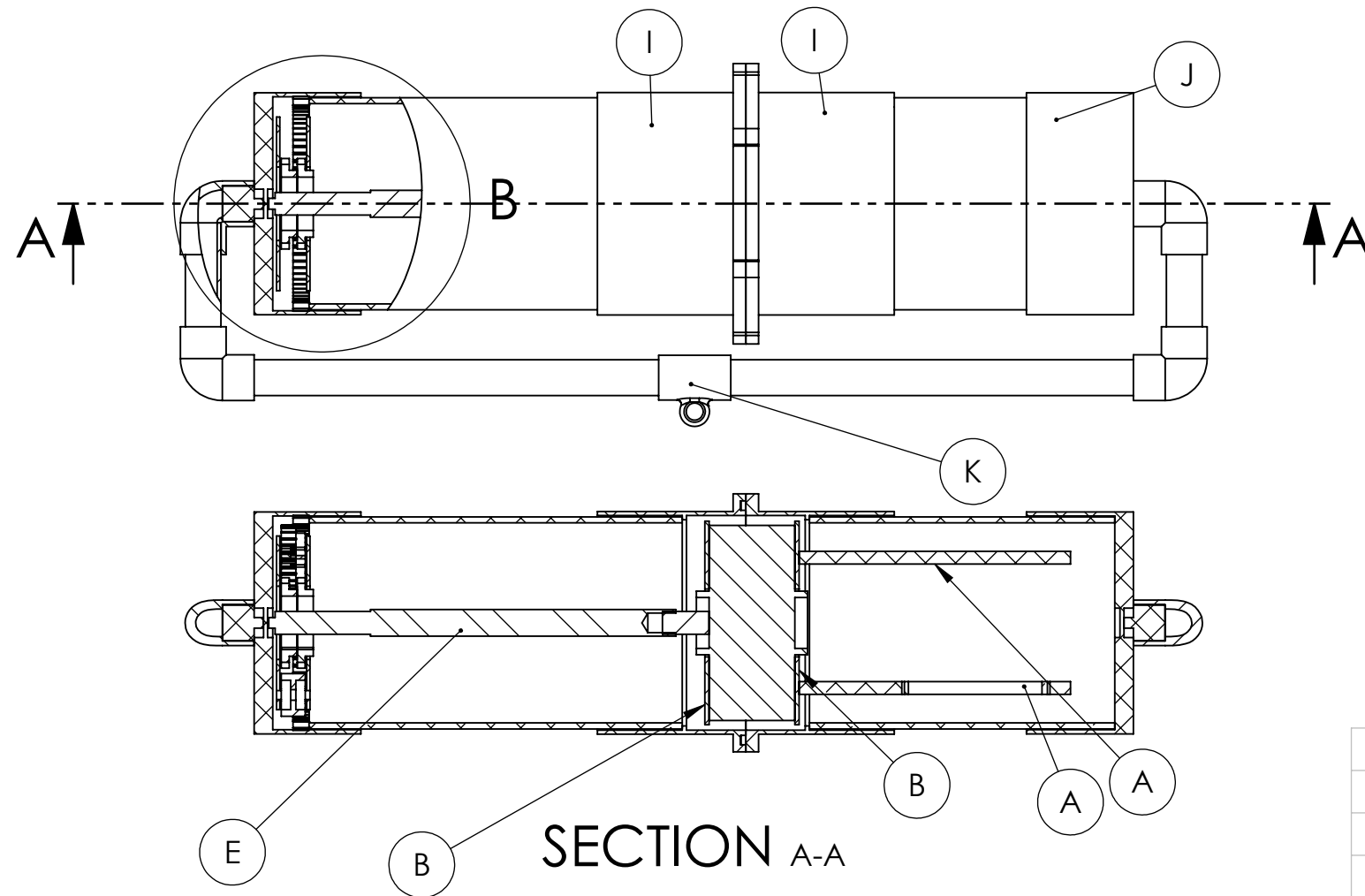
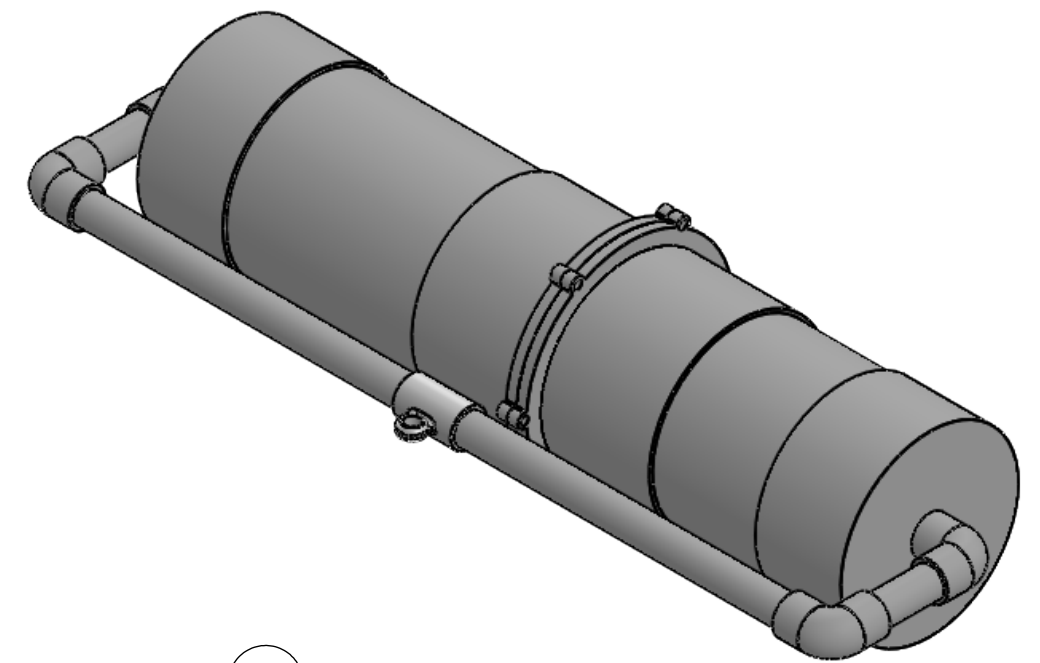
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BALLOON LETTER	PART NAME	QUANTITY	NOTES
A	ELECTRONIC BOARDS 1 & 2	1 PAIR	TWO VARIANTS
B	MOTOR MOUNT	2	
C	PLANET GEAR	2	22 TEETH SPUR GEAR
D	SUN GEAR	2	32 TEETH SPUR GEAR
E	AXLE	1	
F	SPACER	1	
G	CAP (WITH TEETH)	1	
H	CARRIER	2	
I	COUPLING	2	TWO VARIANTS
J	CAP	1	
K	GUIDE WIRE	1	
L	ELBOW ADAPTER	2	



DETAIL B
SCALE 1 : 3

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UNLESS OTHERWISE SPECIFIED:		NAME	DATE	NAU MECC25		
DIMENSIONS ARE IN INCHES		DRAWN	PG			4/12/25
TOLERANCES:		CHECKED		TITLE: NAU MECC BUOY		
FRACTIONAL: $\pm 1/32$		ENG APPR.				
ANGULAR: MACH \pm		MFG APPR.		SIZE	DWG. NO.	REV
BEND \pm		Q.A.		B		
TWO PLACE DECIMAL ± 0.010		COMMENTS: THIS DRAWING SHOWS ALL OF THE PARTS OF NAU'S MECC25 BUOY. ALL PARTS TO BE MANUFACTURED ARE SHOWN BELOW WITH DIMENSIONS.			SCALE: 1:5	WEIGHT:
THREE PLACE DECIMAL ± 0.005					SCALE: 1:5	WEIGHT:
INTERPRET GEOMETRIC TOLERANCING PER:	MATERIAL			SHEET 1 OF 1		
FINISH						
NEXT ASSY	USED ON					
APPLICATION	DO NOT SCALE DRAWING					

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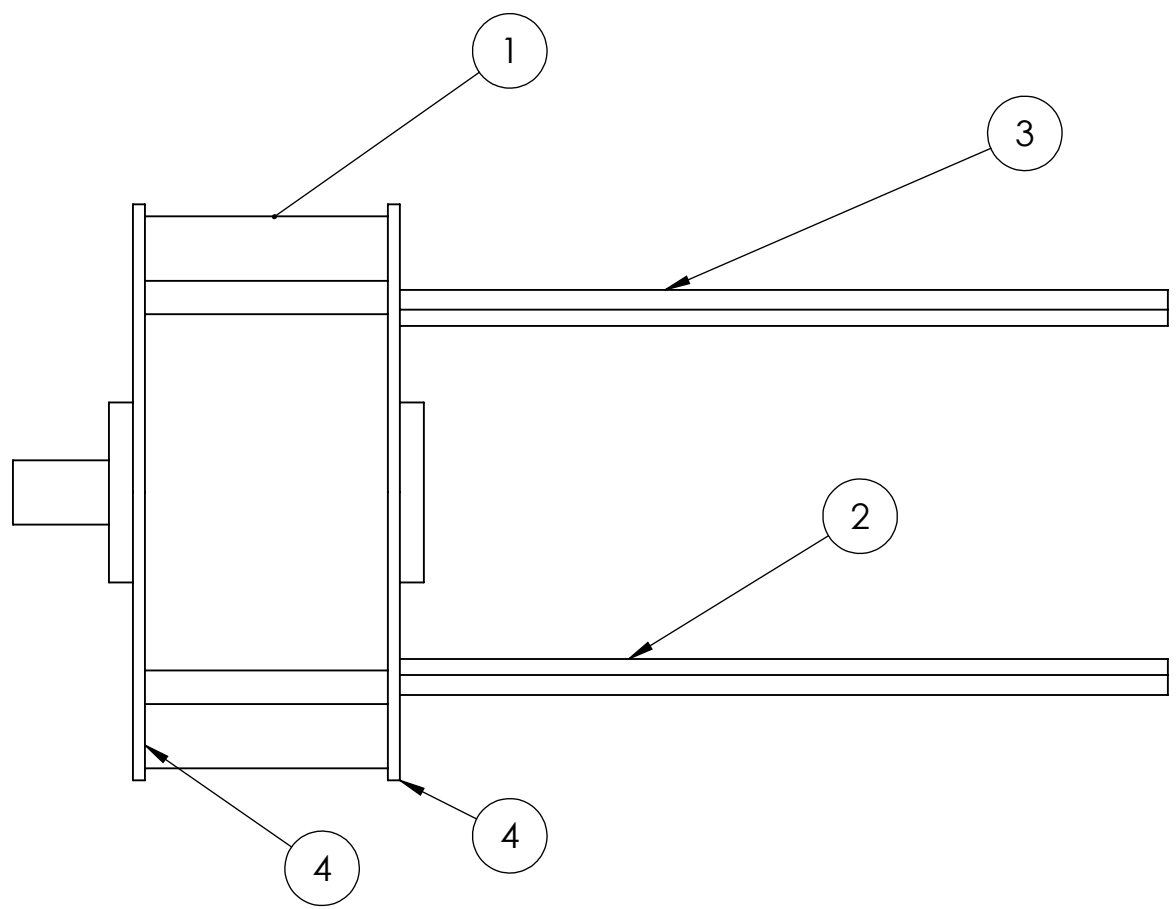
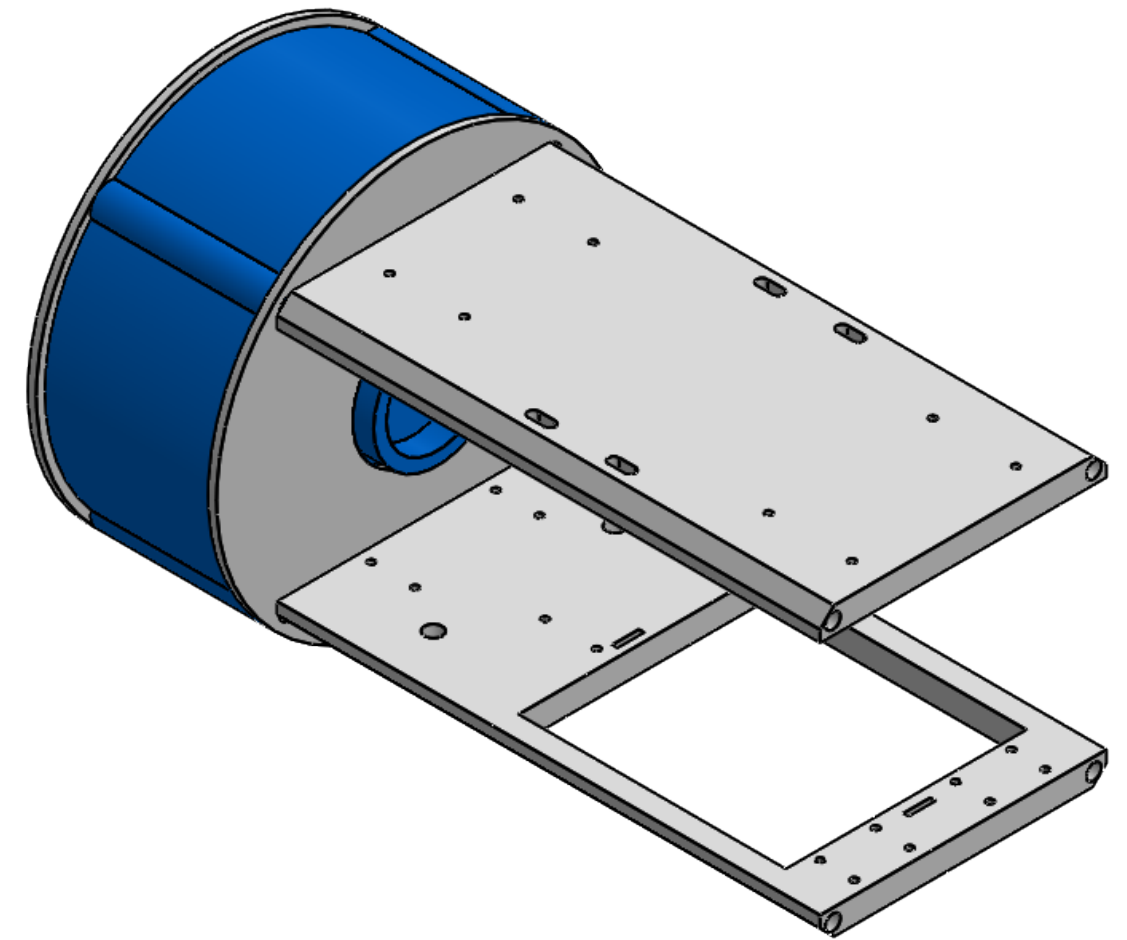
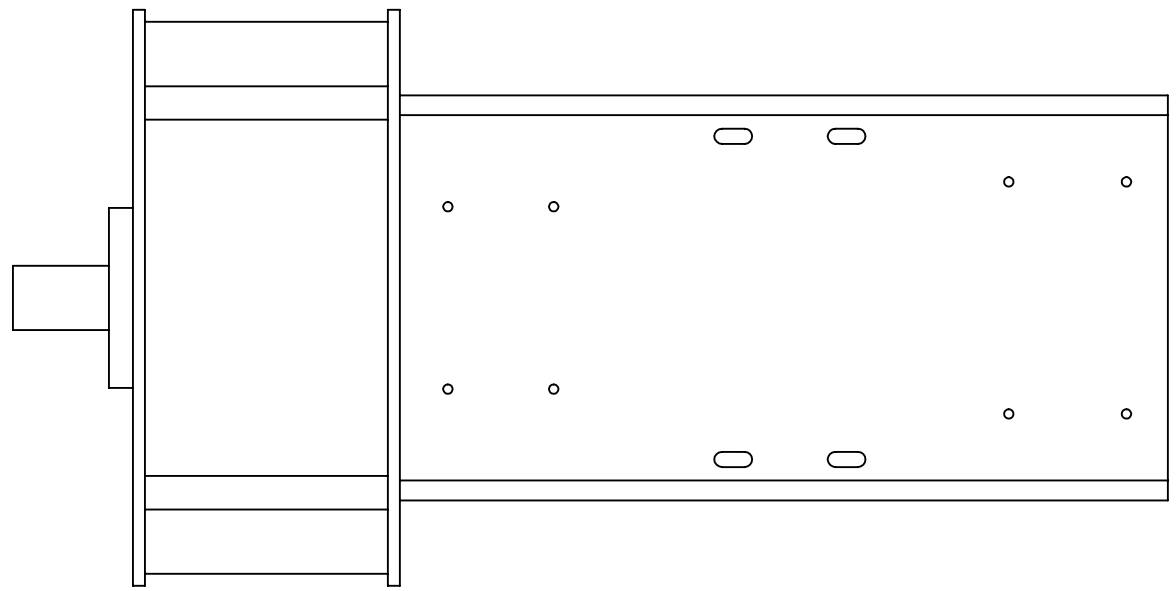
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BALLOON NUMBER	PART NAME	QUANTITY	BOUGHT/MFG
1	GENERATOR	1	BOUGHT
2	ELECTRONIC PLATE 1	1	MFG
3	ELECTRONIC PLAE 2	1	MFG
4	MOTOR MOUNT	2	MFG

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DIMENSIONS ARE IN INCHES		DRAWN	PG		4/3/25
TOLERANCES:		CHECKED			
FRACTIONAL ± 1/32		ENG APPR.			
ANGULAR: MACH ±		MFG APPR.			
BEND ±		Q.A.			
TWO PLACE DECIMAL ±0.010		COMMENTS: GENERATOR IS NOT GOING TO BE MANUFACTURED, HOWEVER IT WILL BE MODIFIED WHEN BUILDING. ALL-THREAD WILL BE SUBSTITUED FOR THE GENERATOR'S FASTENERS.			
THREE PLACE DECIMAL ±0.005					
INTERPRET GEOMETRIC TOLERANCING PER:				SIZE DWG. NO. REV	
MATERIAL				B	
FINISH				SCALE: 1:2 WEIGHT: SHEET 1 OF 1	
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			

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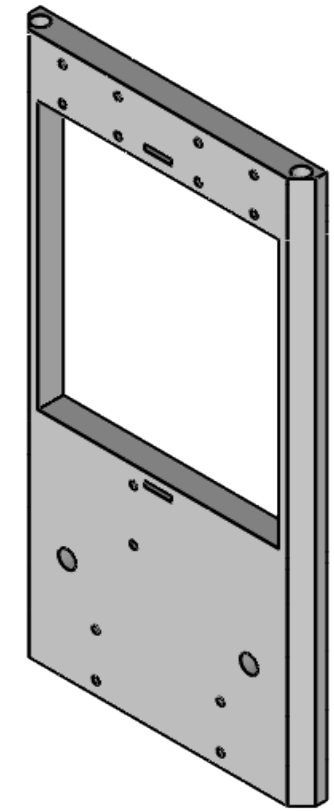
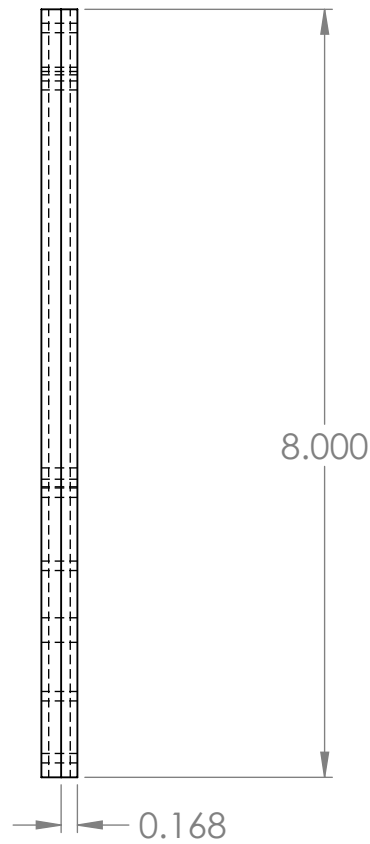
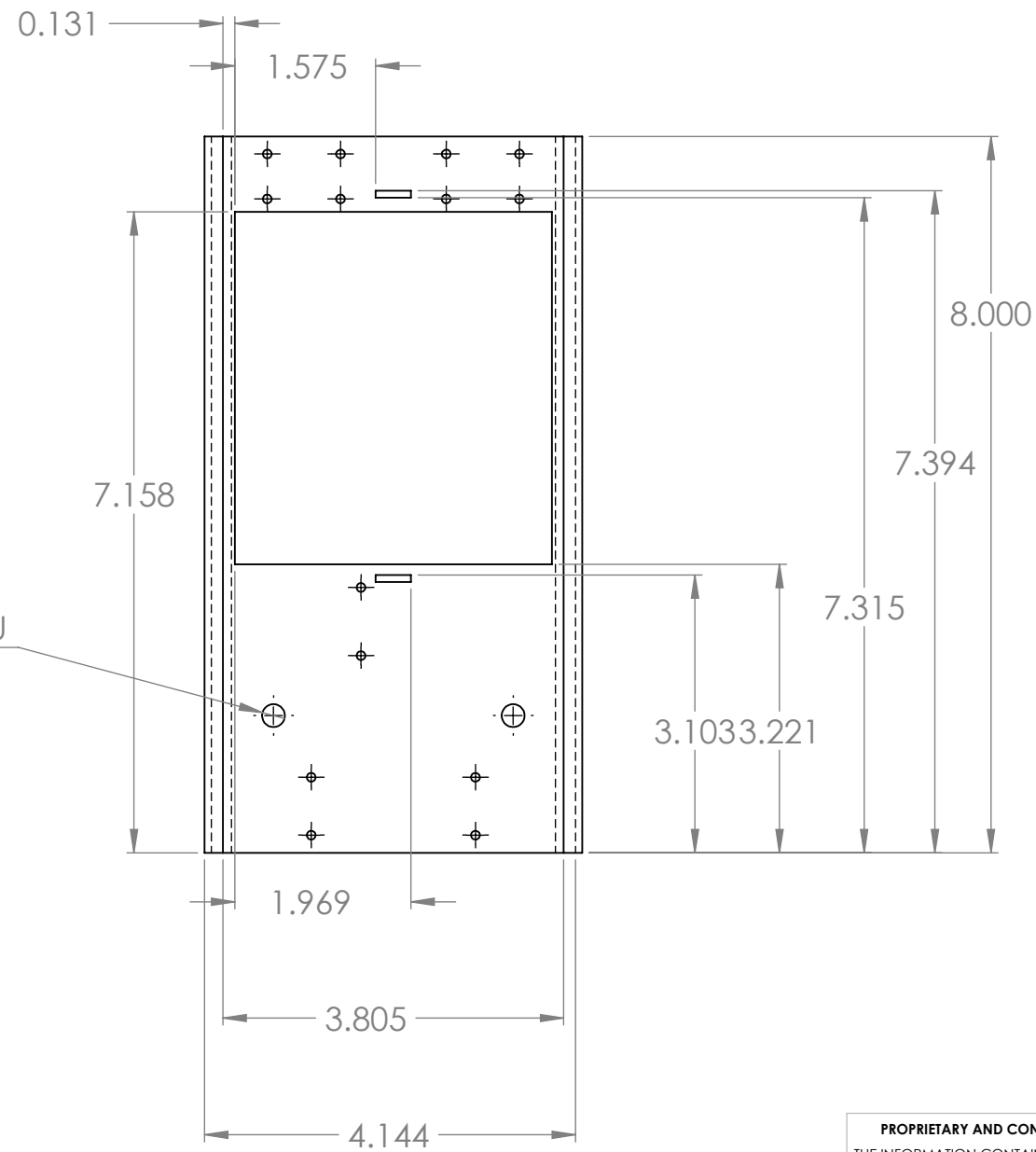
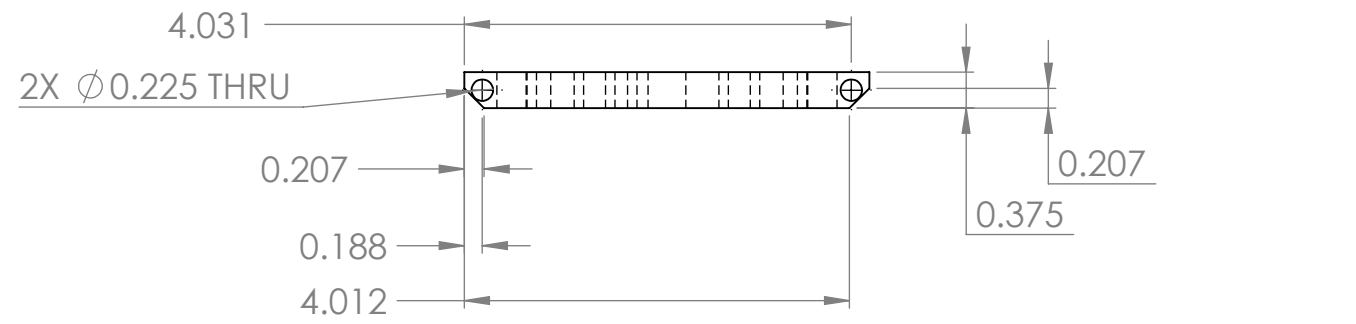
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		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/32 ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ±0.010 THREE PLACE DECIMAL ±0.005		DRAWN	PG		
		INTERPRET GEOMETRIC TOLERANCING PER:		CHECKED			TITLE:
		MATERIAL		ENG APPR.			ELECTRONIC PLATE 1
		FINISH		MFG APPR.			SIZE
NEXT ASSY	USED ON	ABS		Q.A.			DWG. NO.
APPLICATION		DO NOT SCALE DRAWING		COMMENTS: THIS BOARD WILL HOLD THE BATTERY USING VELCRO STRAPS AS WELL AS A FEW ELECTRONIC COMPONENTS.			REV
				SCALE: 1:2	WEIGHT:	SHEET 1 OF 2	

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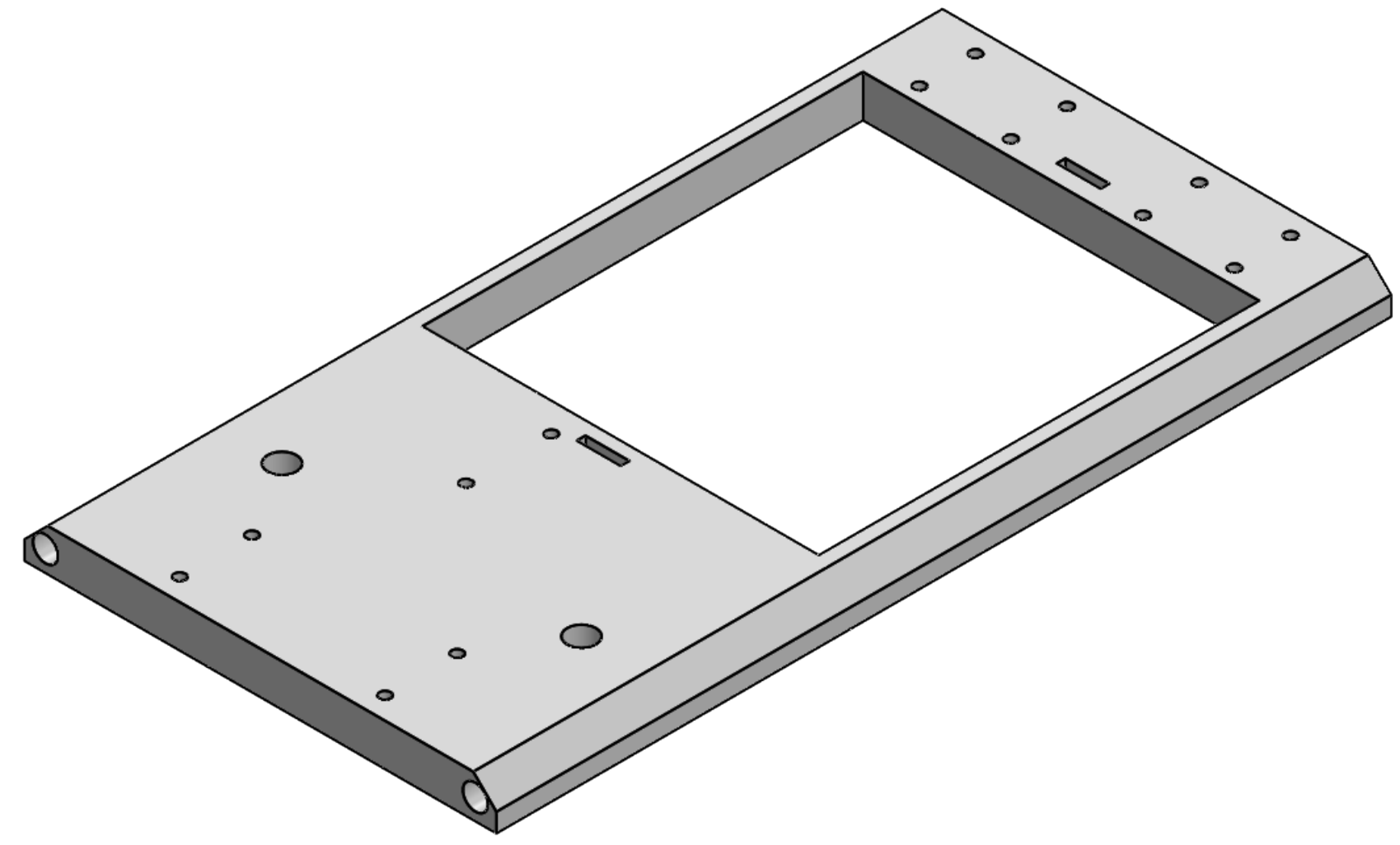
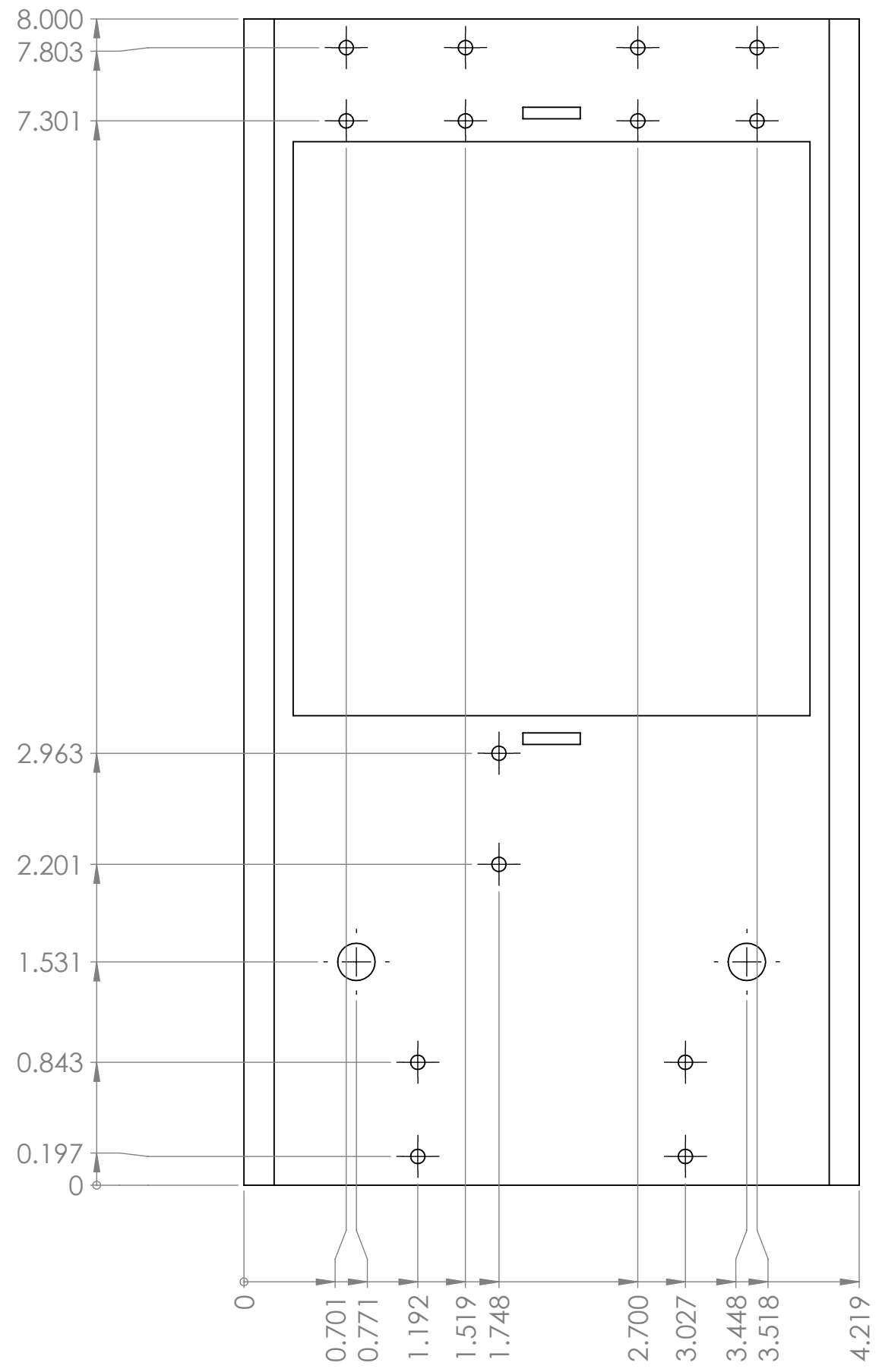
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		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/32 ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ±0.010 THREE PLACE DECIMAL ±0.005		DRAWN	PG		
		INTERPRET GEOMETRIC TOLERANCING PER:		CHECKED			TITLE: ELECTRONIC PLATE 1
		MATERIAL ABS		ENG APPR.			
NEXT ASSY	USED ON	FINISH		MFG APPR.			SIZE DWG. NO. REV
APPLICATION		DO NOT SCALE DRAWING		Q.A.			SCALE: 1:1 WEIGHT: SHEET 2 OF 2
				COMMENTS: HOLE LAYOUT FOR ELECTRONIC COMPONENTS			

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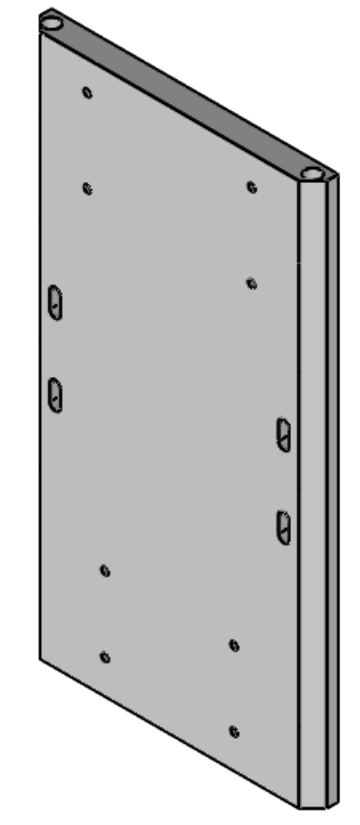
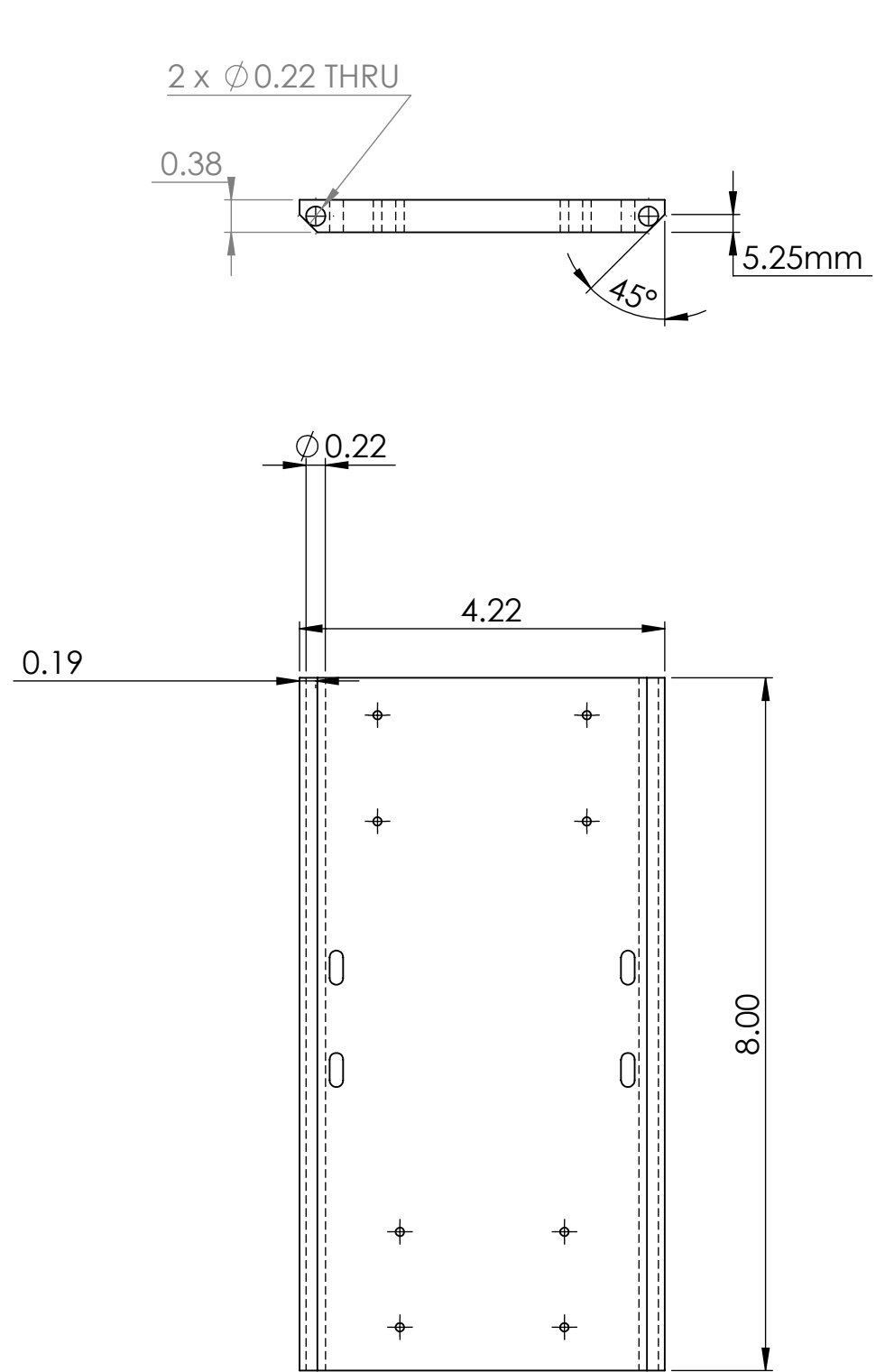
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B

B

A

A



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		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/32$ ANGULAR: MACH \pm BEND \pm TWO PLACE DECIMAL ± 0.010 THREE PLACE DECIMAL ± 0.005		DRAWN	PG			12/3/24	
		INTERPRET GEOMETRIC TOLERANCING PER:		CHECKED		TITLE: ELECTRONIC PLATE 2			
		MATERIAL ABS		ENG APPR.					
NEXT ASSY	USED ON	FINISH		MFG APPR.		SIZE	DWG. NO.	REV	
APPLICATION		DO NOT SCALE DRAWING		Q.A.		SCALE: 1:2		WEIGHT:	SHEET 1 OF 2
				COMMENTS: THIS BOARD WILL HOLD SOME OF THE ELECTRONIC COMPONENTS INSIDE OF THE BUOY					

3

2

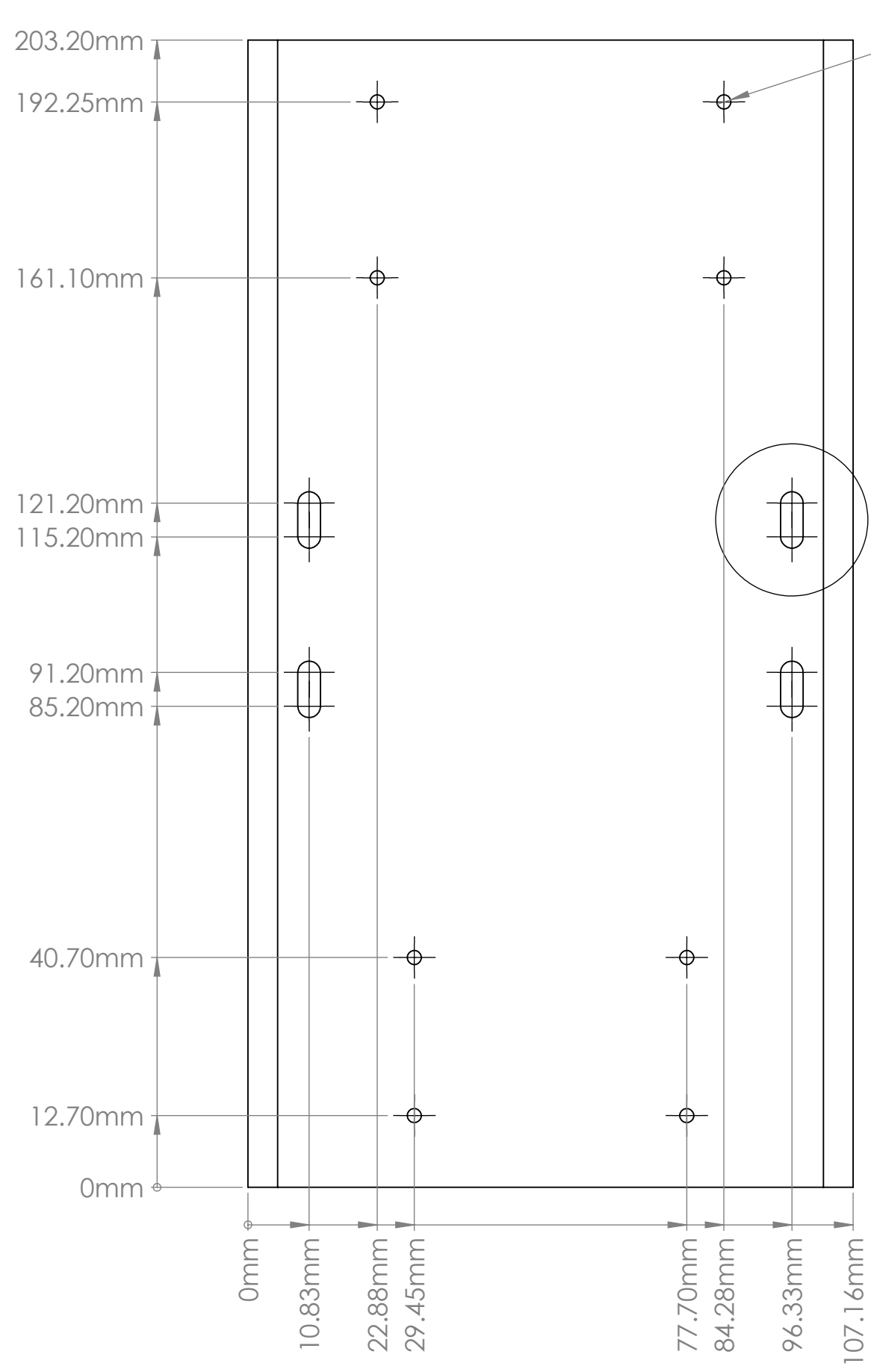
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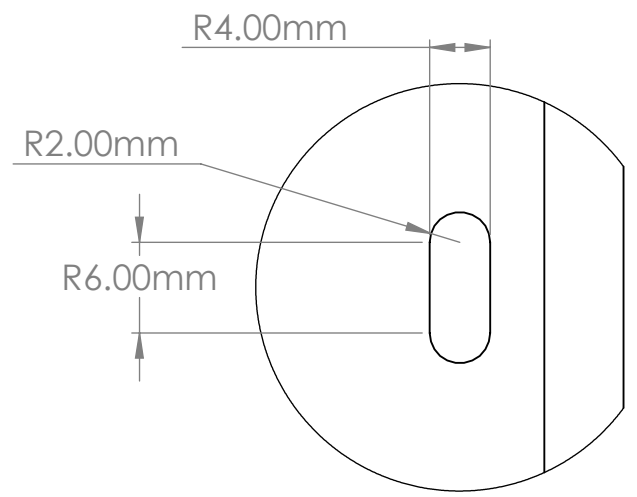
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8 x ϕ 2.50mm THRU

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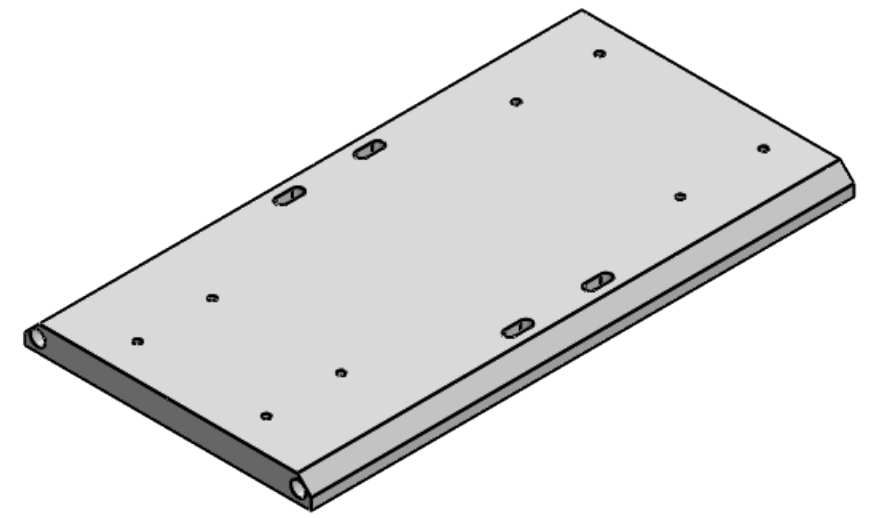


DETAIL A

SCALE 2 : 1

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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	NAU MECC25 TITLE: ELECTRONIC PLATE 2		
		DIMENSIONS ARE IN INCHES		DRAWN	PG			12/3/24
		TOLERANCES:		CHECKED				
		FRACTIONAL \pm 1/32		ENG APPR.				
		ANGULAR: MACH \pm		MFG APPR.			SIZE DWG. NO. REV B	
		BEND \pm		Q.A.				
		TWO PLACE DECIMAL \pm 0.010		COMMENTS: HOLE LAYOUT FOR ELECTRONIC COMPONENTS.				
		THREE PLACE DECIMAL \pm 0.005						
		INTERPRET GEOMETRIC TOLERANCING PER:						
		MATERIAL		ABS				
		FINISH						
NEXT ASSY	USED ON	APPLICATION		DO NOT SCALE DRAWING				
				SCALE: 1:2 WEIGHT:			SHEET 2 OF 2	



B

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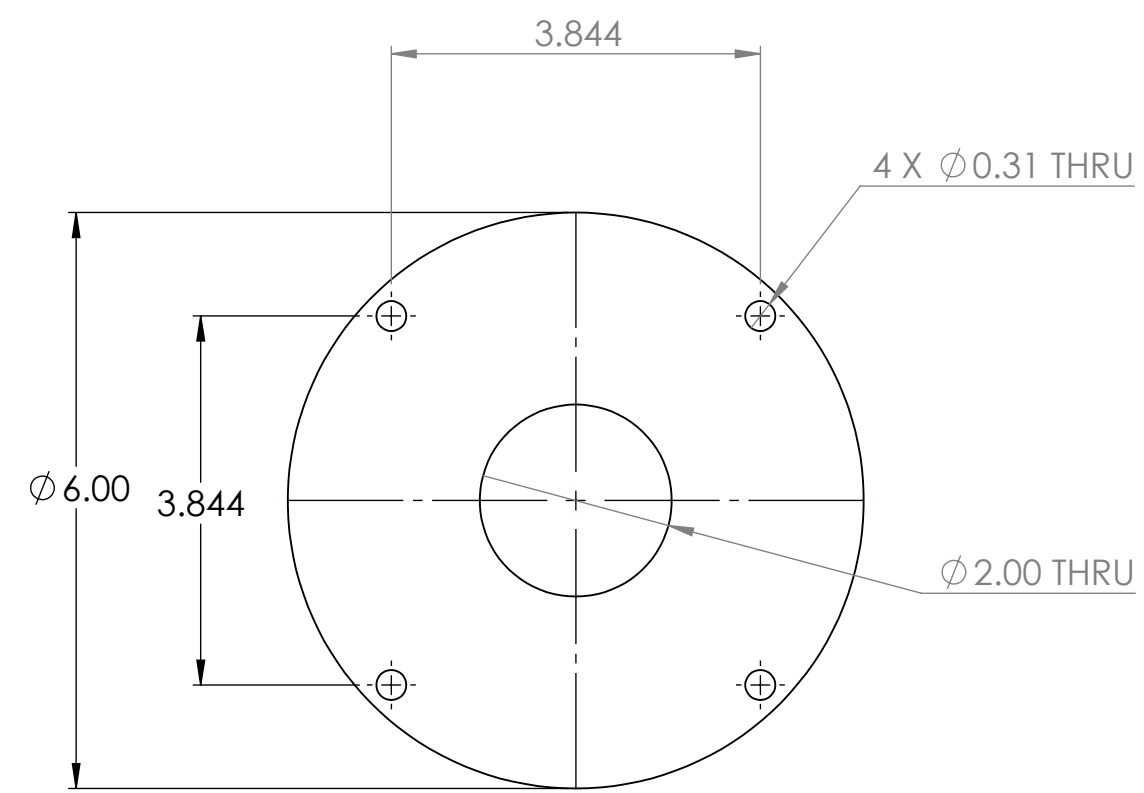
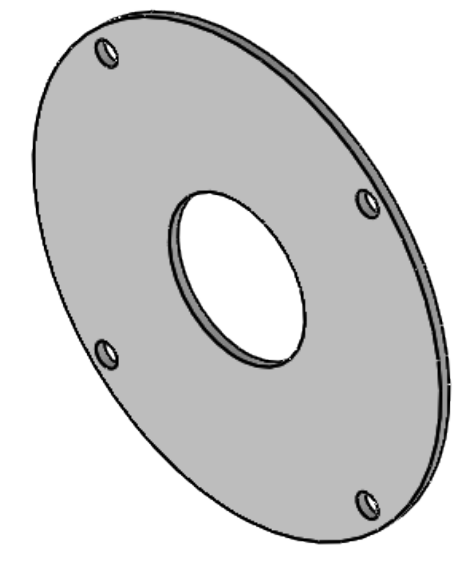
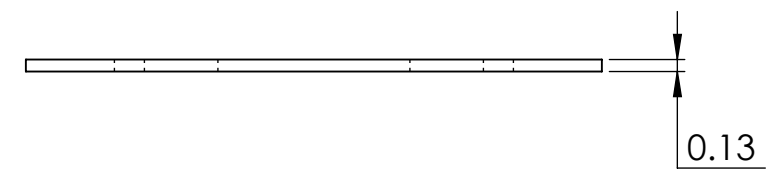
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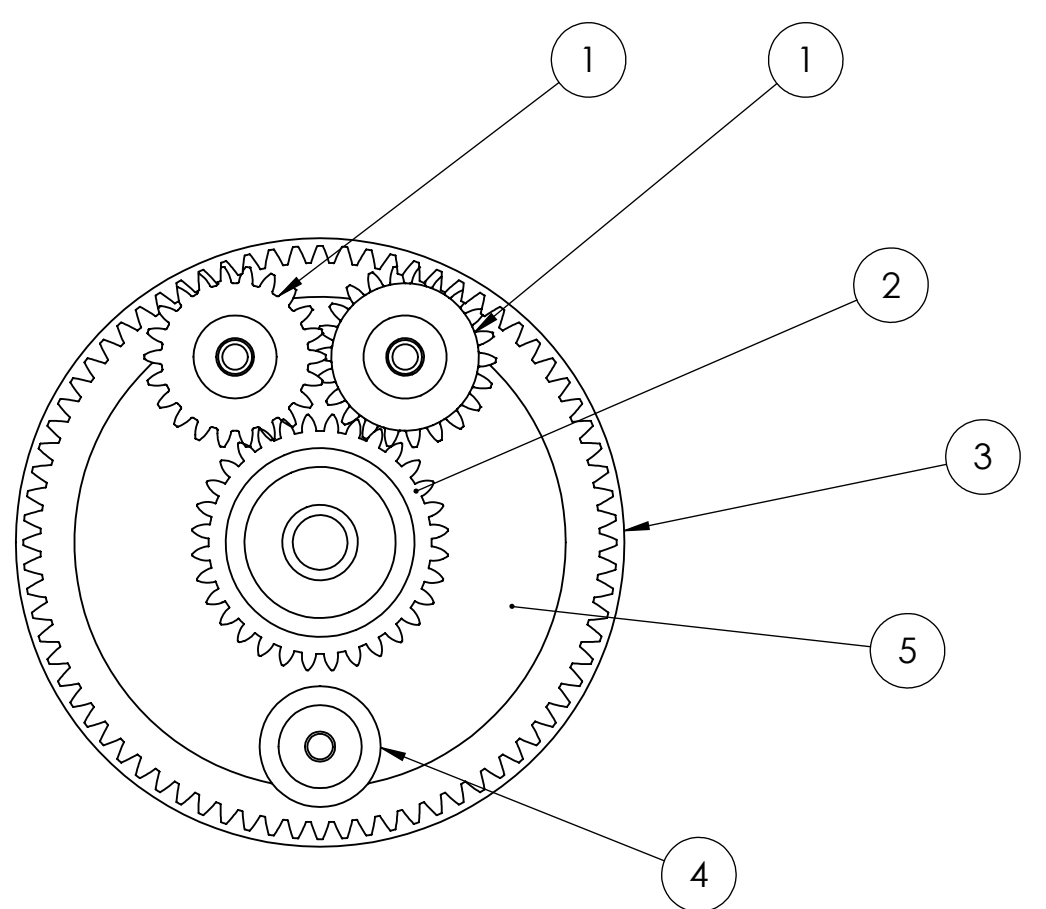
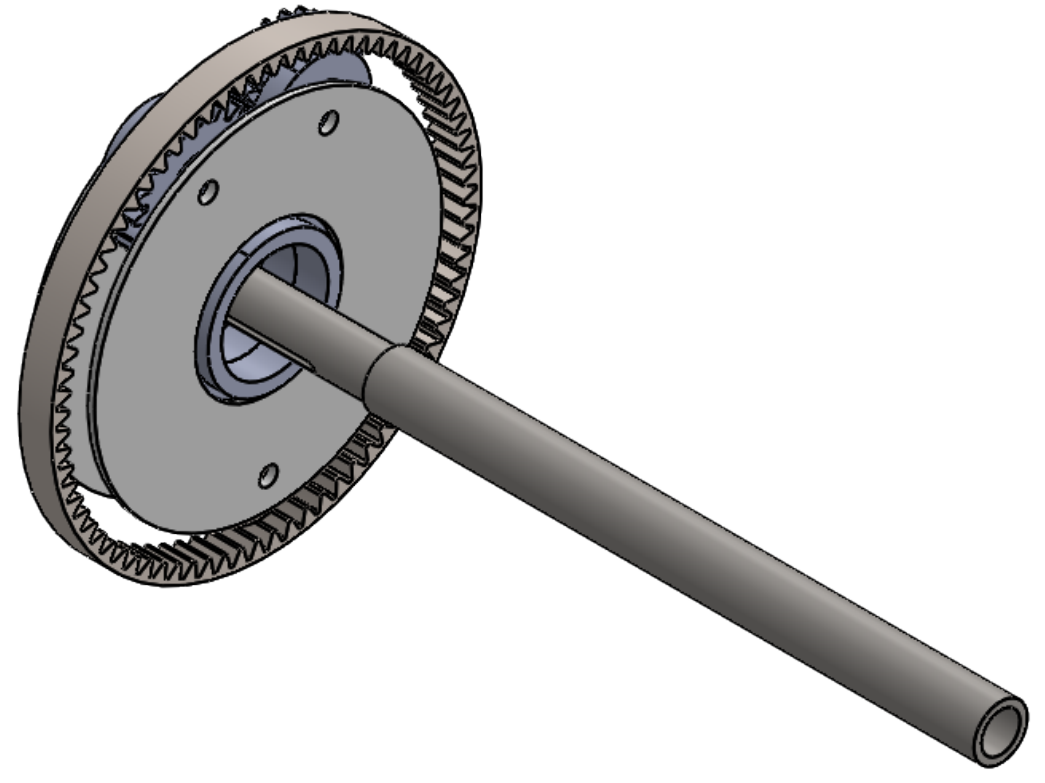
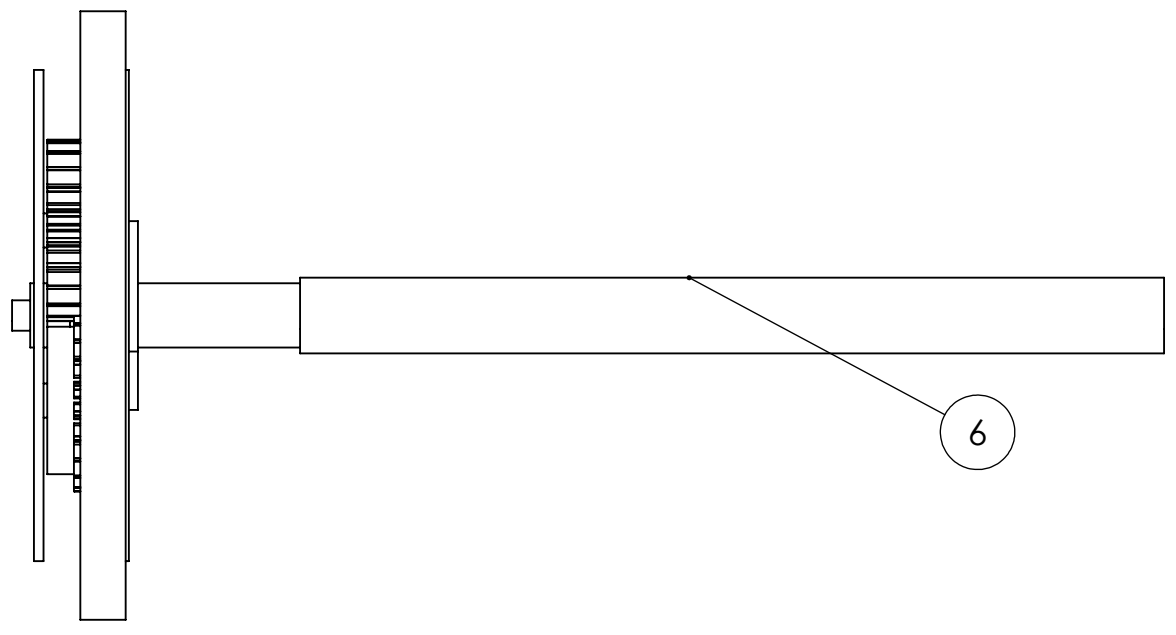
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		DIMENSIONS ARE IN INCHES		DRAWN	PG	TITLE:	
		TOLERANCES:		CHECKED		Motor Mount V3	
		FRACTIONAL $\pm 1/32$		ENG APPR.		SIZE	DWG. NO.
		ANGULAR: MACH \pm		MFG APPR.		B	
		BEND \pm		Q.A.		SCALE: 1:2	WEIGHT:
		TWO PLACE DECIMAL ± 0.010		COMMENTS: TWO PLATES ARE TO BE FABRICATED. THIS PLATE ENSURES THAT THE MOTOR STAYS CONCENTRIC AND RELATIVELY CENTER TO THE BUOY		REVISION	SHEET 1 OF 1
		THREE PLACE DECIMAL ± 0.005					
		INTERPRET GEOMETRIC TOLERANCING PER:					
		MATERIAL					
		ABS					
NEXT ASSY		USED ON					
APPLICATION		DO NOT SCALE DRAWING					

3

2

1



BALLOON NUMBER	PART NAME	QUANTITY	NUMBER OF TEETH
1	PLANET GEAR	2	22
2	SUN GEAR	2	32
3	RING GEAR	1	76
4	SPACER	1	N/A
5	CARRIER	2	N/A
6	AXLE	1	N/A

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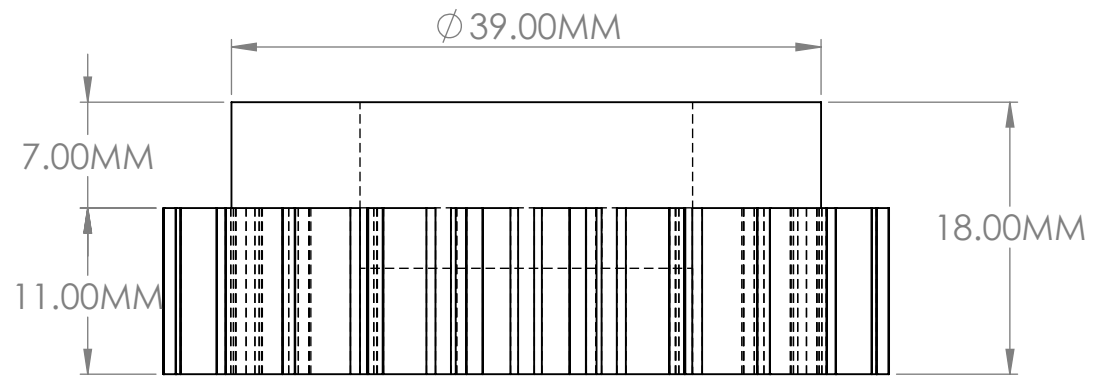
UNLESS OTHERWISE SPECIFIED:		NAME	DATE	NAU MECC25 TITLE: INTERIOR GEAR ASSEMBLY	
DIMENSIONS ARE IN INCHES		DRAWN	PG		4/3/25
TOLERANCES: FRACTIONAL $\pm 1/32$ ANGULAR: MACH \pm BEND \pm TWO PLACE DECIMAL ± 0.010 THREE PLACE DECIMAL ± 0.005		CHECKED			
INTERPRET GEOMETRIC TOLERANCING PER:		ENG APPR.			
MATERIAL		MFG APPR.			
FINISH		Q.A.			
NEXT ASSY	USED ON	COMMENTS: EACH OF THE GEARS WILL HAVE A BEARING PRESSED INTO EACH. ONE CARRIER IS HIDDEN TO SHOW THE INTERIOR GEAR MESHING.		SIZE DWG. NO. REV	
APPLICATION		SEE SPECIFIC DRAWINGS FOR SPECIFIC DIMENSIONS.		B	
DO NOT SCALE DRAWING		SCALE: 1:2 WEIGHT:		SHEET 1 OF 1	

4

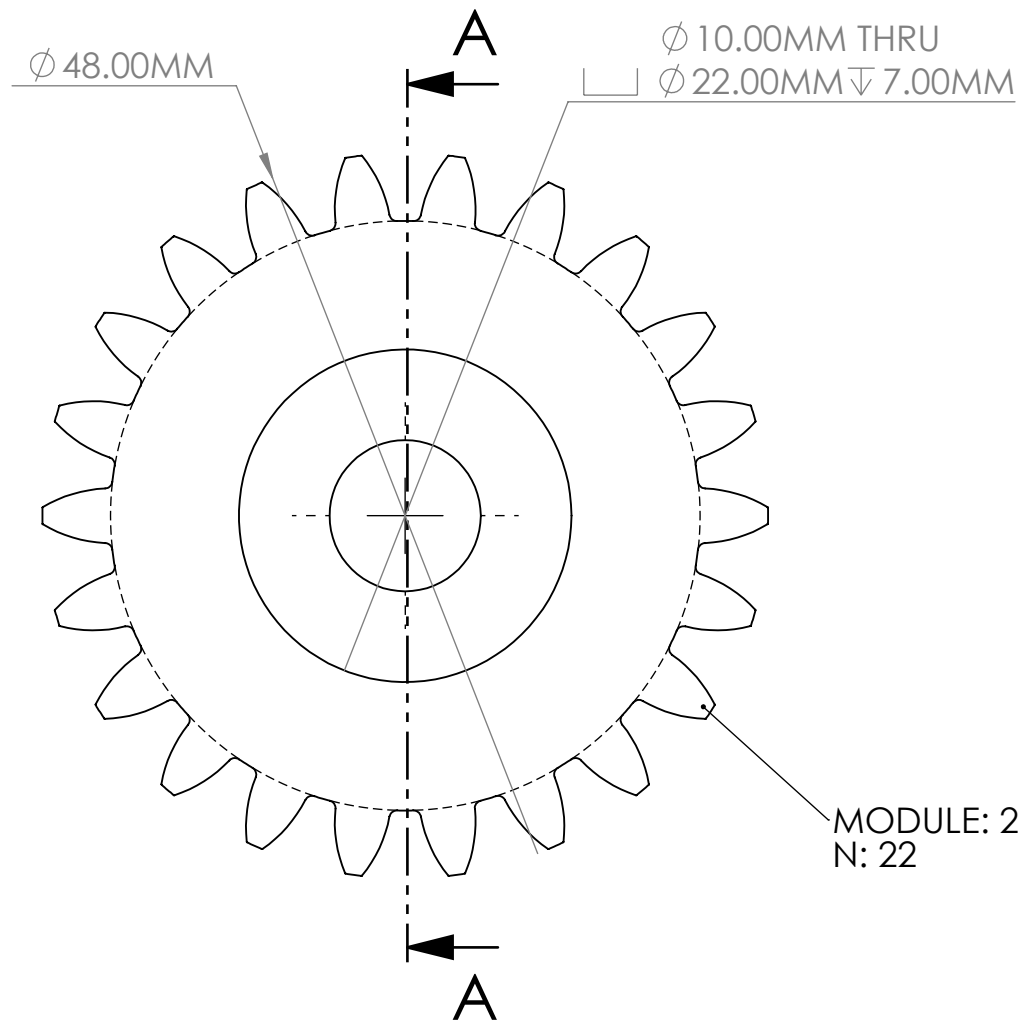
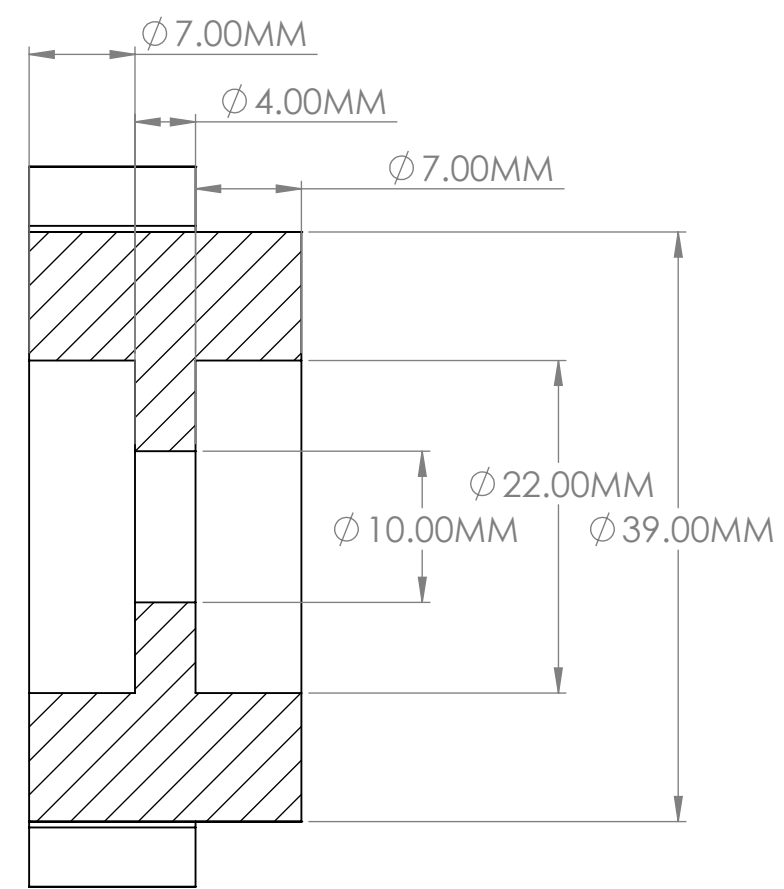
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SECTION A-A



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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES		DRAWN	PG
		TOLERANCES:		CHECKED	4/5/25
		FRACTIONAL $\pm 1/32$		ENG APPR.	
		ANGULAR: MACH \pm BEND \pm		MFG APPR.	
		TWO PLACE DECIMAL ± 0.010		Q.A.	
		THREE PLACE DECIMAL ± 0.005		COMMENTS: THE PLANET GEAR WILL MESH WITH BOTH THE SUN GEAR AND THE RING GEAR ON THE CAP. TWO BEARINGS WILL BE PRESS FIT INTO THE HOLES. TEETH: 22	
		INTERPRET GEOMETRIC TOLERANCING PER:		SIZE	DWG. NO.
		MATERIAL		B	REV
		ABS			
NEXT ASSY	USED ON	FINISH		SCALE: 2:1 WEIGHT:	
APPLICATION		DO NOT SCALE DRAWING		SHEET 1 OF 1	

NAU MECC25		
TITLE: PLANET GEAR		
SIZE	DWG. NO.	REV
B		
SCALE: 2:1 WEIGHT:		SHEET 1 OF 1

4

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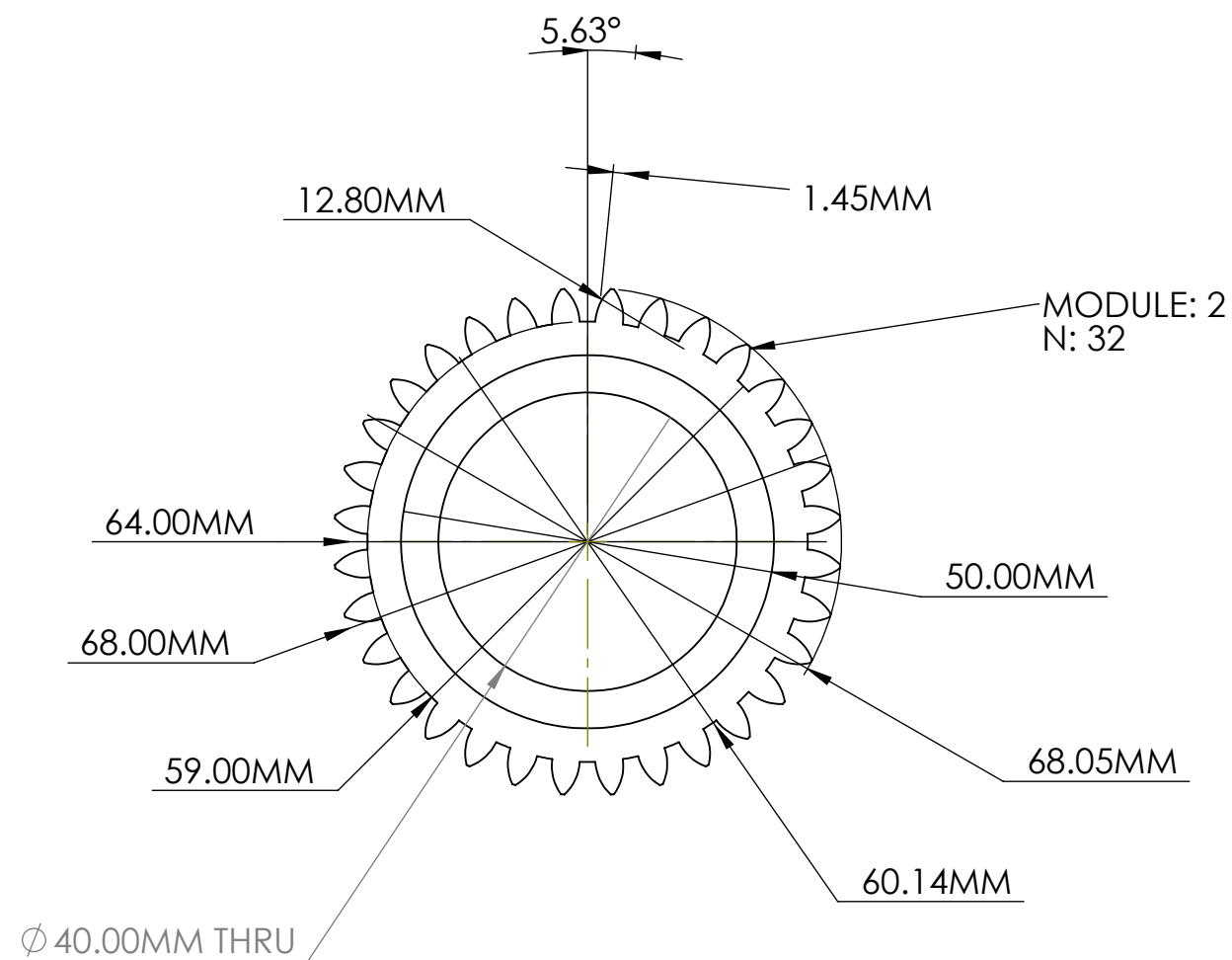
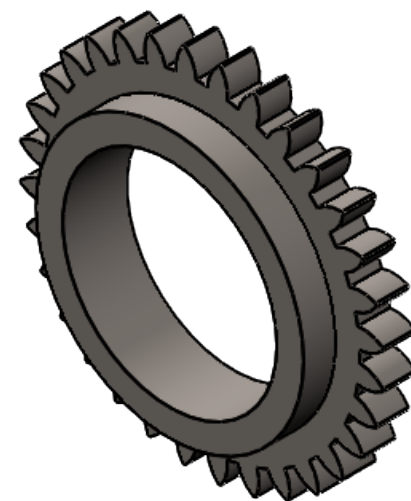
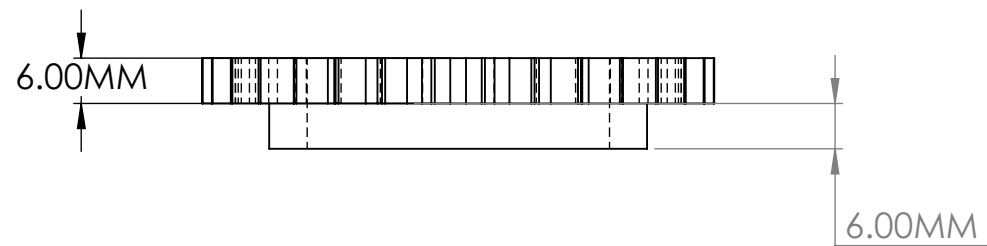
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		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/32 ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ±0.010 THREE PLACE DECIMAL ±0.005		DRAWN	PG			4/5/25	
		INTERPRET GEOMETRIC TOLERANCING PER:		CHECKED			TITLE: SUN GEAR		
		MATERIAL ABS		ENG APPR.					
NEXT ASSY		USED ON		MFG APPR.			SIZE	DWG. NO.	REV
APPLICATION		DO NOT SCALE DRAWING		Q.A.			B		
				COMMENTS: THE SUN GEAR WILL MESH WITH THE AXLE CONNECTED TO THE MOTOR SHAFT AND THE PLANET GEARS. A ONE-WAY BEARING WILL BE PRESS FITTED INTO THE SLOT TEETH: 32			SCALE: 1:1	WEIGHT:	SHEET 1 OF 1

3

2

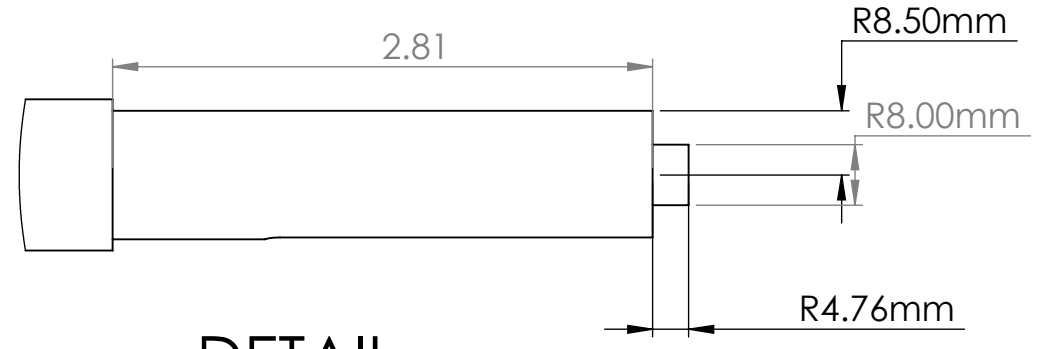
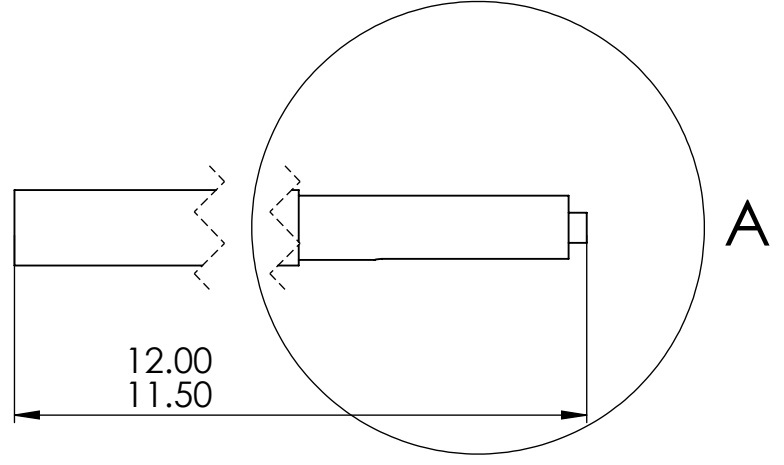
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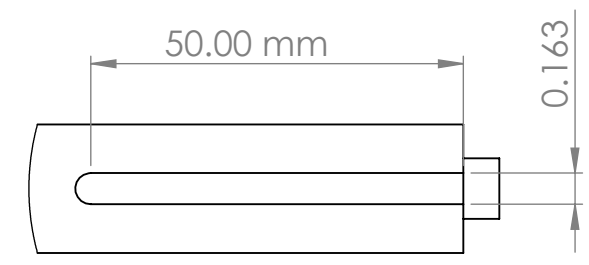
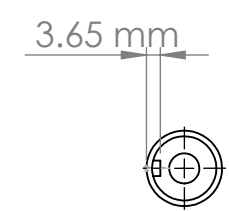
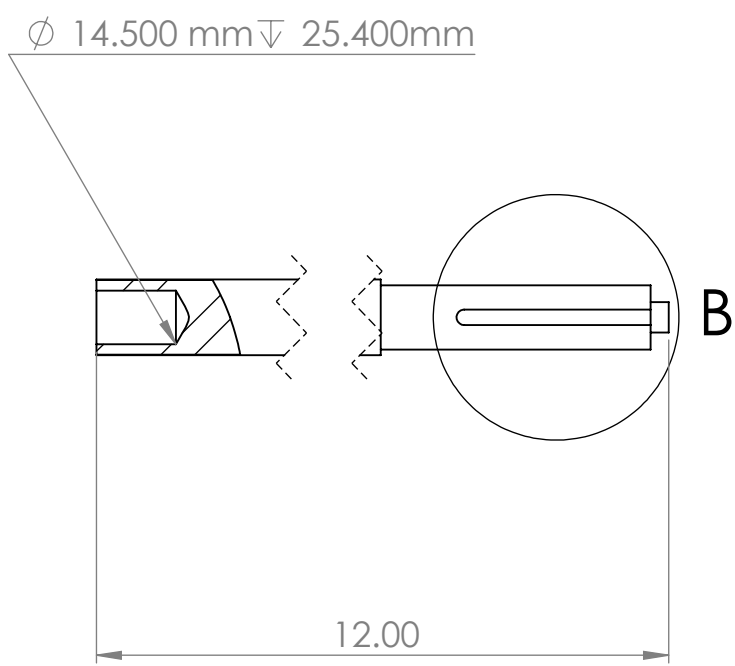
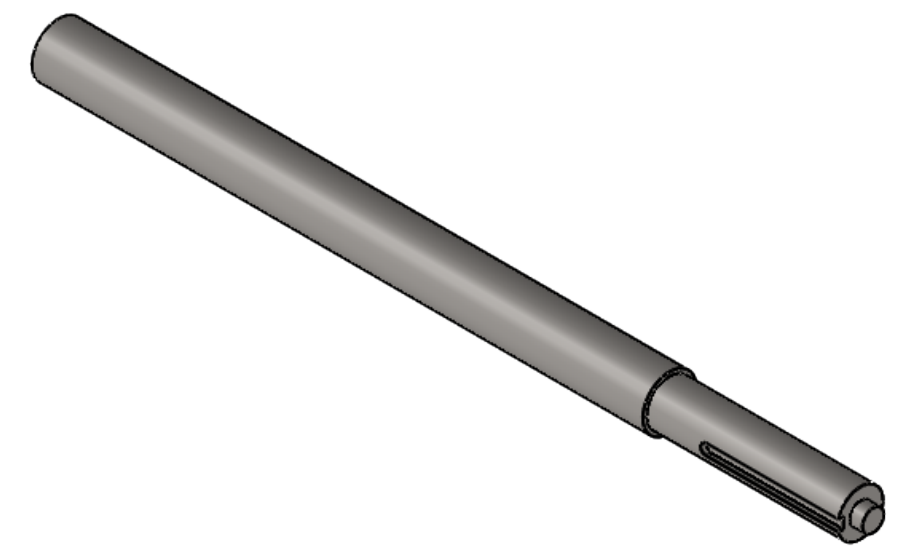
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DETAIL A
SCALE 1 : 1



DETAIL B
SCALE 1 : 1

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		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/32 ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ±0.010 THREE PLACE DECIMAL ±0.005		DRAWN	PG		
		INTERPRET GEOMETRIC TOLERANCING PER:		CHECKED			TITLE: MOTOR AXLE
		MATERIAL PLAIN CARBON STEEL		ENG APPR.			
NEXT ASSY		USED ON		MFG APPR.			SIZE B
APPLICATION		DO NOT SCALE DRAWING		Q.A.			DWG. NO.
				COMMENTS: THIS AXEL WILL HAVE A SLOT FOR A 4MMX4MMX36MM KEYLOCK. MODEL REPRESENTS POST MACHINEING.			REV A
							SCALE: 1:2
							WEIGHT:
							SHEET 1 OF 1

3

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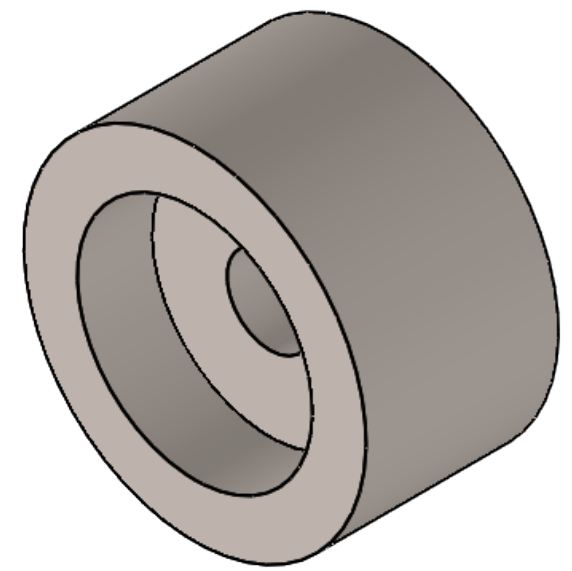
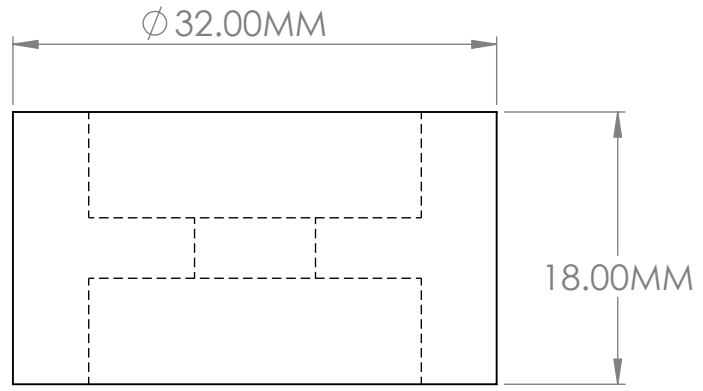
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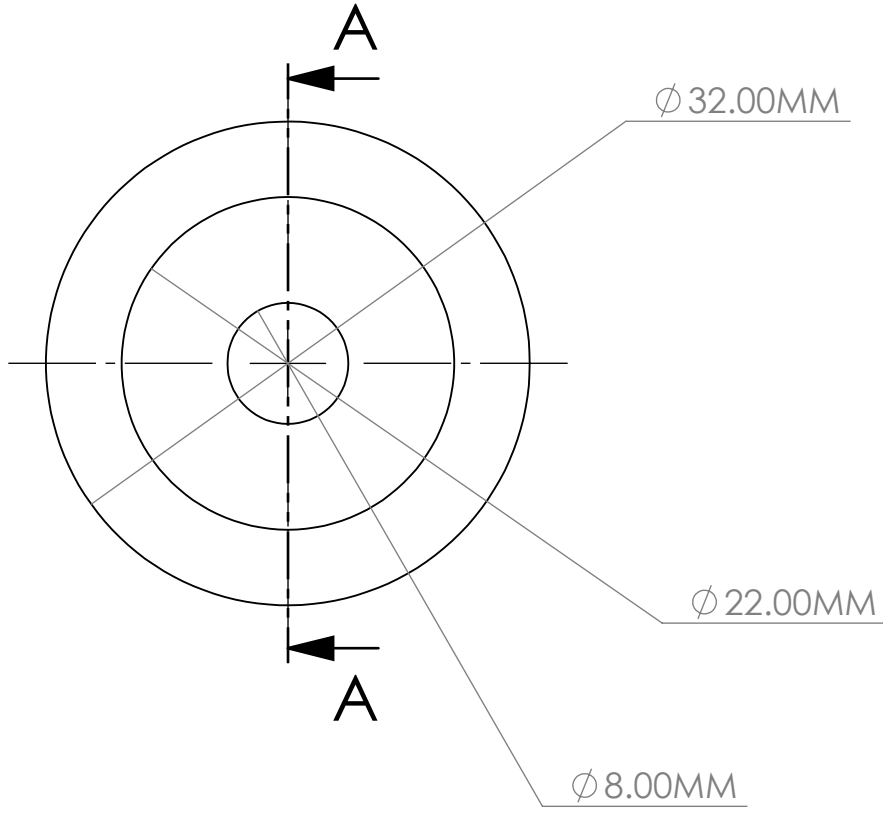
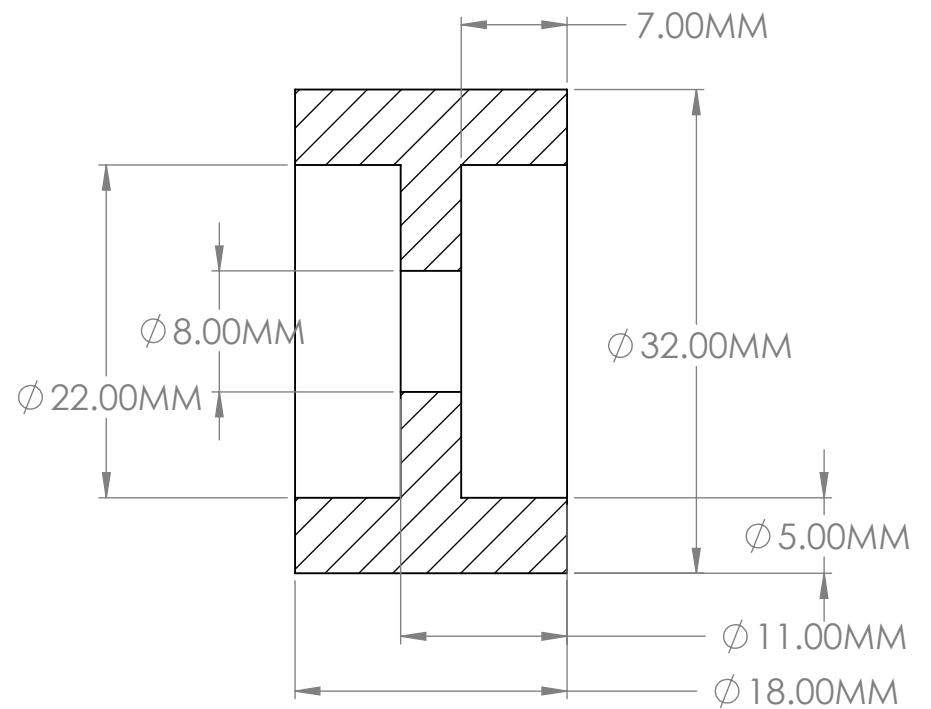
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B

B

SECTION A-A



A

A

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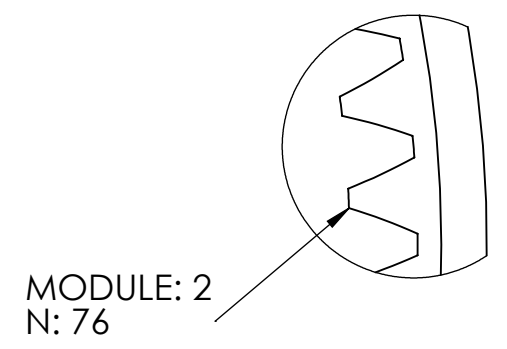
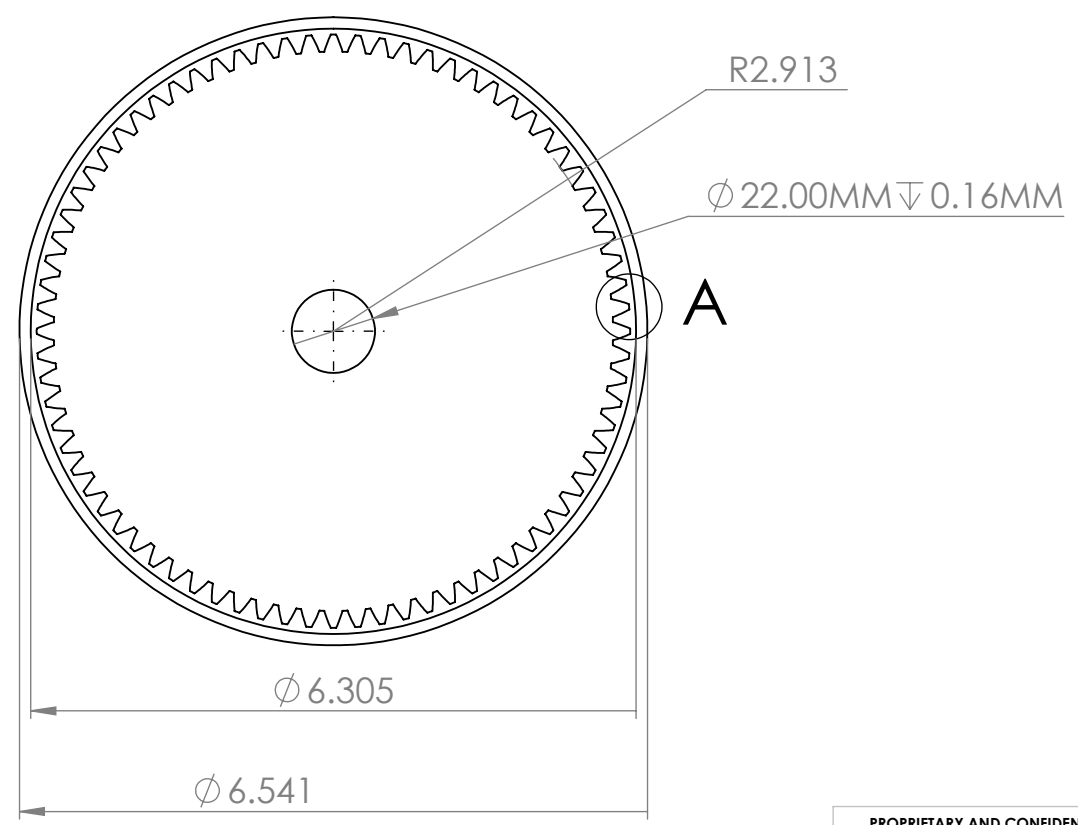
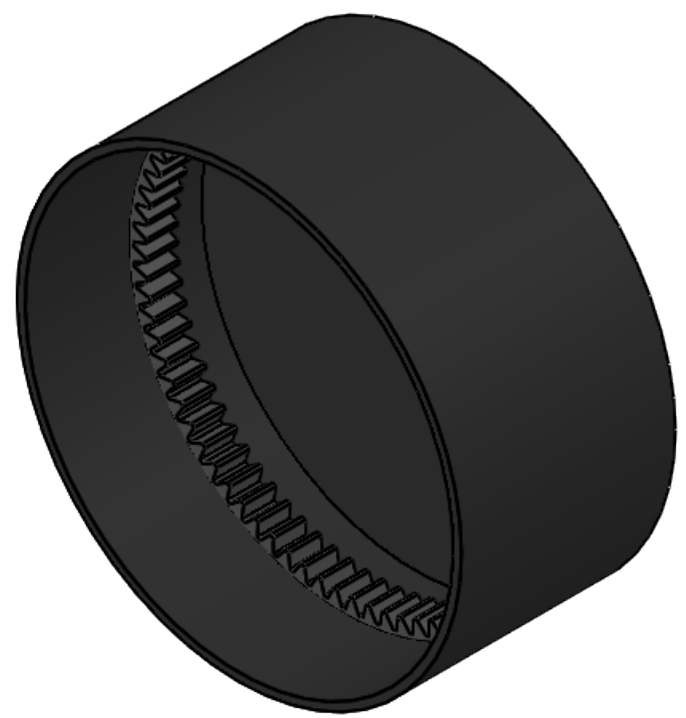
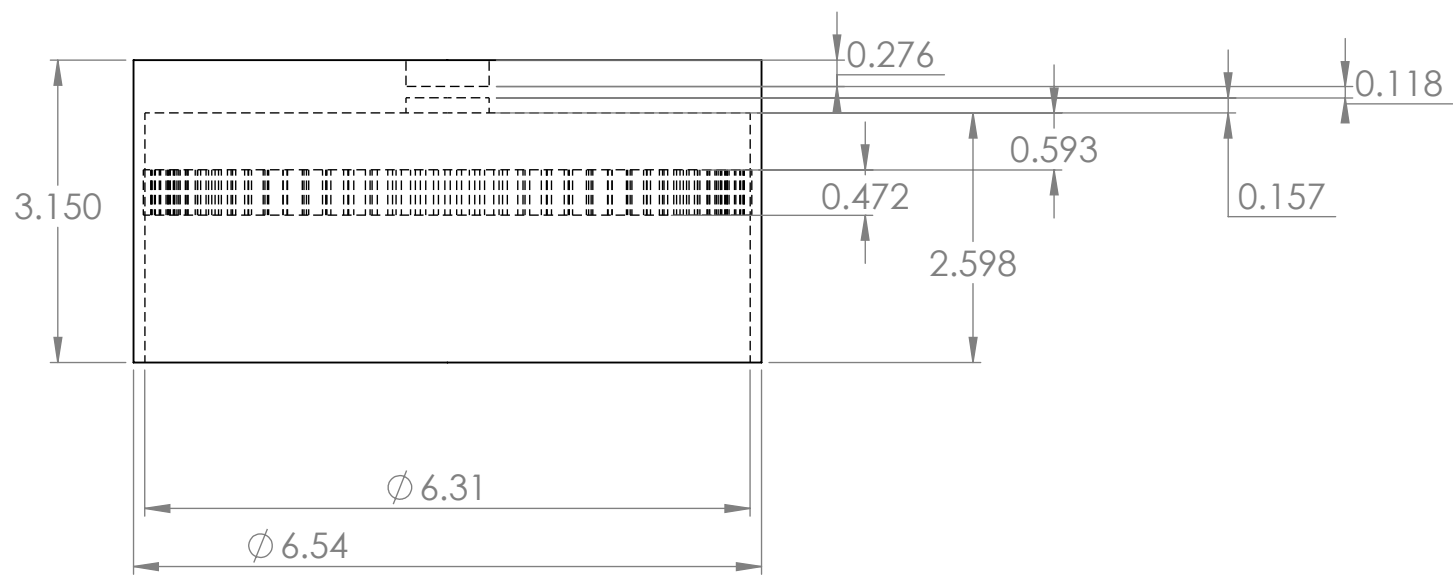
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	NAU MECC25 TITLE: GEAR SPACE MK2		
		DIMENSIONS ARE IN INCHES		DRAWN	PG			4/1/25
		TOLERANCES:		CHECKED				
		FRACTIONAL: ± 1/32		ENG APPR.				
		ANGULAR: MACH ± BEND ±		MFG APPR.				
		TWO PLACE DECIMAL ±0.010		Q.A.			COMMENTS: THE GEAR SPACER WILL ALLOW THE GEAR HOUSING TO BE PARALLEL WHEN IN USE. NO ONE-WAY BEARINGS WILL BE USED ON THIS OBJECT.	
		THREE PLACE DECIMAL ±0.005						
		INTERPRET GEOMETRIC TOLERANCING PER:				SIZE	DWG. NO.	REV
		MATERIAL		ABS		B		
NEXT ASSY	USED ON	FINISH				SCALE: 2:1	WEIGHT:	SHEET 1 OF 1
APPLICATION		DO NOT SCALE DRAWING						

4

3

2

1



DETAIL A
SCALE 2 : 1

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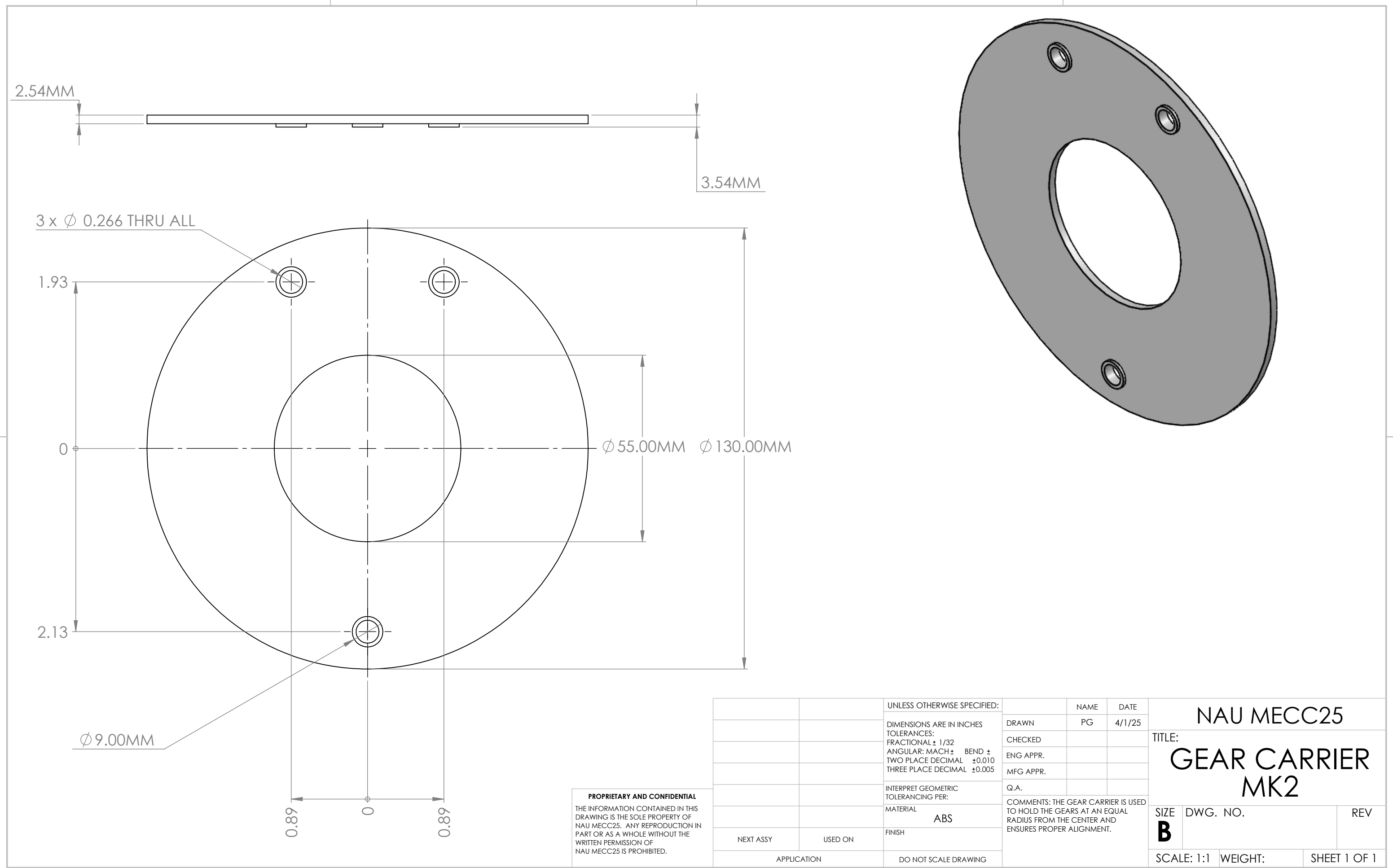
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	NAU MECC25	
		DIMENSIONS ARE IN INCHES		DRAWN	PG	TITLE:	
		TOLERANCES:		CHECKED		CAP	
		FRACTIONAL: ± 1/32		ENG APPR.		(WITH TEETH)	
		ANGULAR: MACH ±		MFG APPR.		SIZE	DWG. NO.
		BEND ±		Q.A.		B	REV
		TWO PLACE DECIMAL ±0.010		COMMENTS: THIS WILL GO ON THE OPPOSING SIDE OF THE BOUY. THE INTERNAL GEAR SYSTEM WILL MESH WITH THE INTERNAL SPUR GEAR INTEGRATED WITH THIS CAP			
		THREE PLACE DECIMAL ±0.005				SCALE: 1:2	WEIGHT:
		INTERPRET GEOMETRIC TOLERANCING PER:				SHEET 1 OF 1	
		MATERIAL					
		ABS					
NEXT ASSY	USED ON	FINISH					
APPLICATION		DO NOT SCALE DRAWING					

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2.54MM

3.54MM

3 x ϕ 0.266 THRU ALL

1.93

2.13

ϕ 55.00MM ϕ 130.00MM

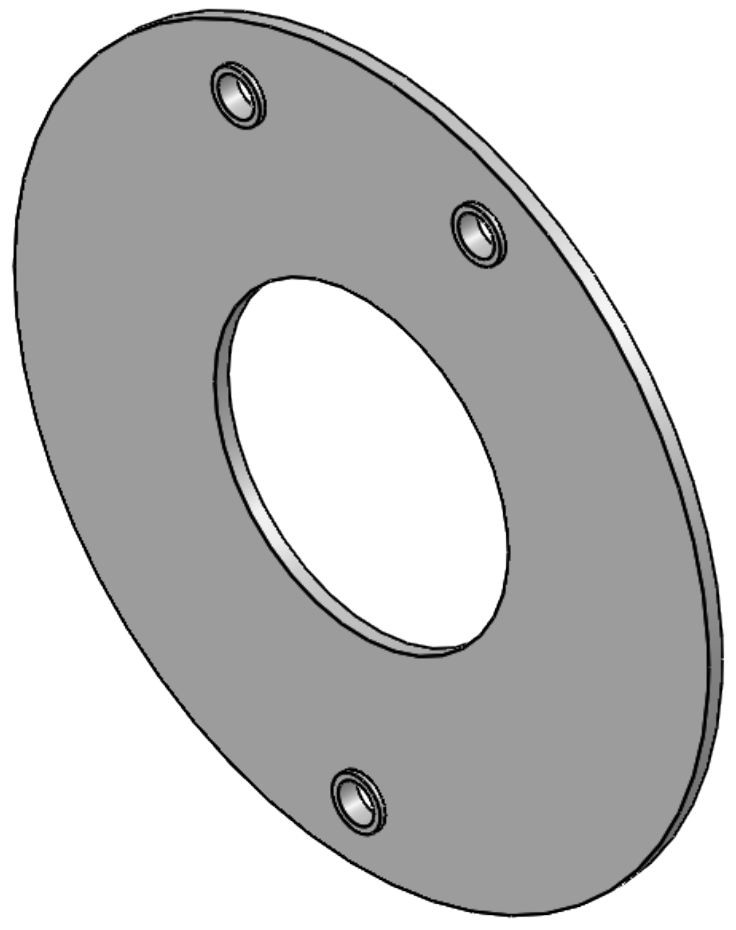
ϕ 9.00MM

0.89

0

0.89

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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	NAU MECC25		
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL \pm 1/32 ANGULAR: MACH \pm BEND \pm TWO PLACE DECIMAL \pm 0.010 THREE PLACE DECIMAL \pm 0.005		DRAWN	PG			4/1/25
		INTERPRET GEOMETRIC TOLERANCING PER:		CHECKED		TITLE: GEAR CARRIER MK2		
		MATERIAL		ENG APPR.				
		FINISH		MFG APPR.		COMMENTS: THE GEAR CARRIER IS USED TO HOLD THE GEARS AT AN EQUAL RADIUS FROM THE CENTER AND ENSURES PROPER ALIGNMENT.		
		ABS		Q.A.				
NEXT ASSY	USED ON					SIZE	DWG. NO.	REV
APPLICATION		DO NOT SCALE DRAWING				B		
						SCALE: 1:1	WEIGHT:	SHEET 1 OF 1

4

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2

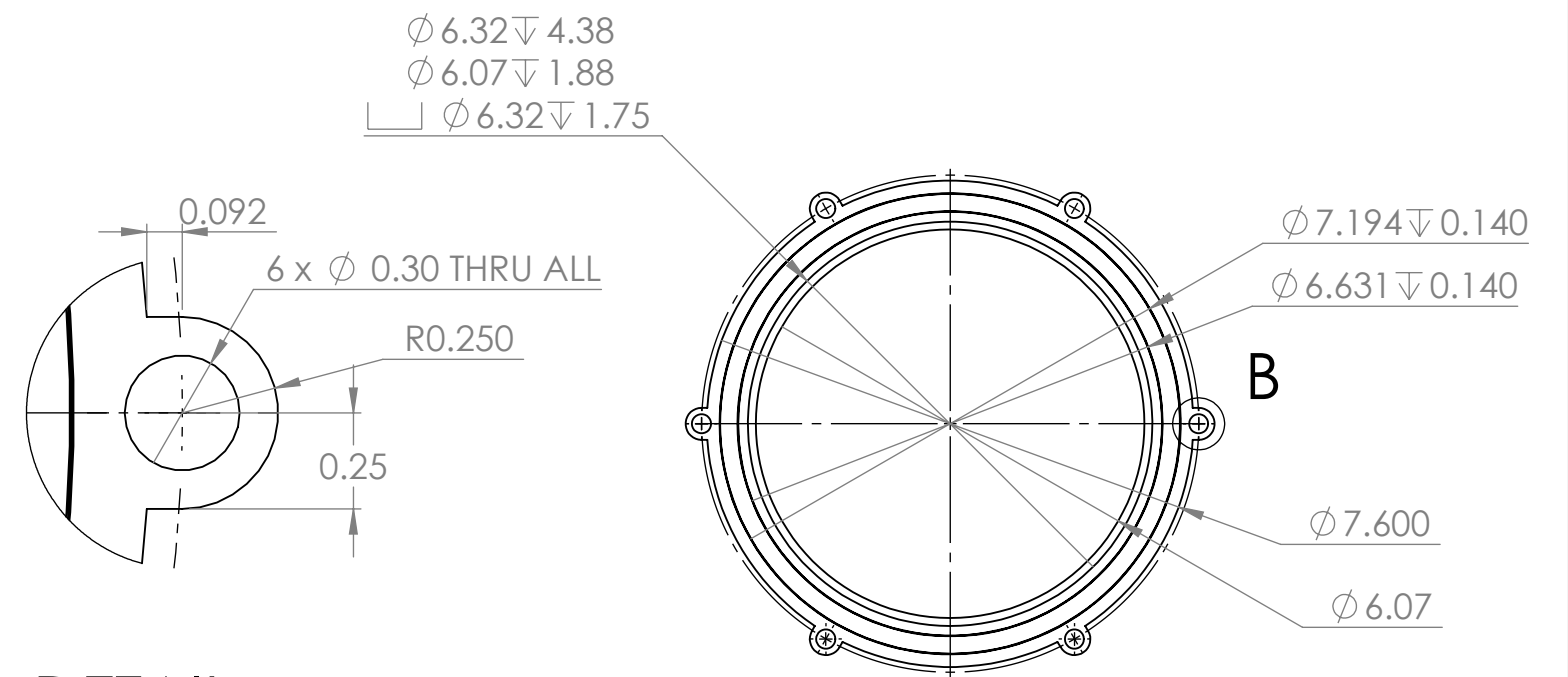
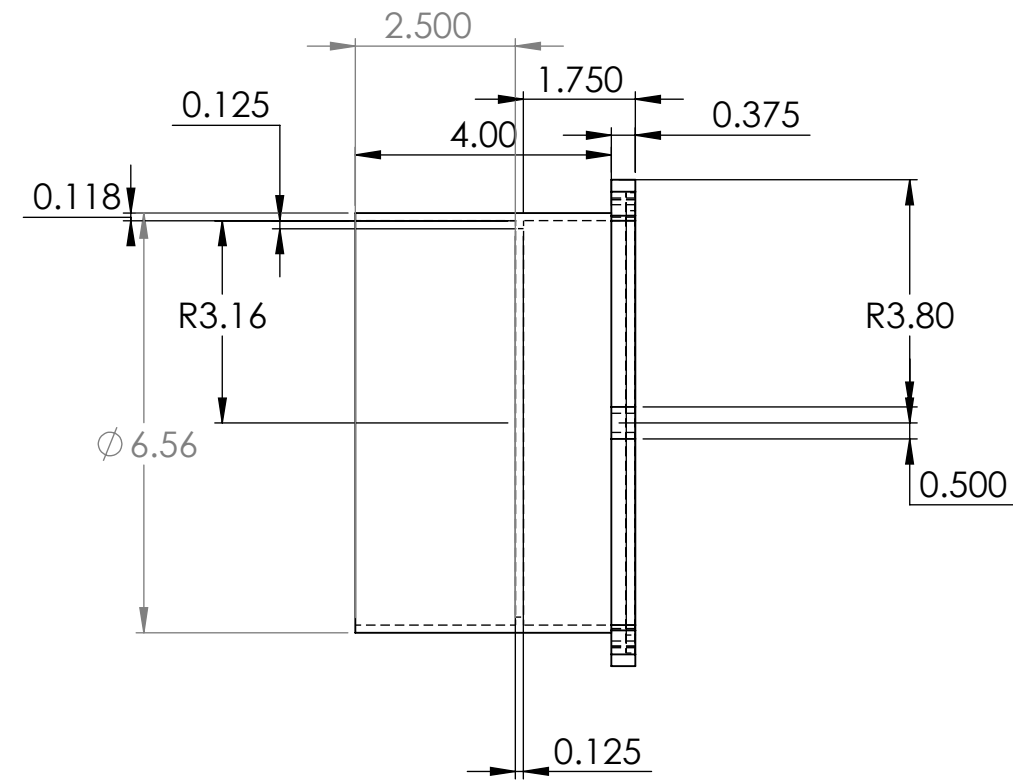
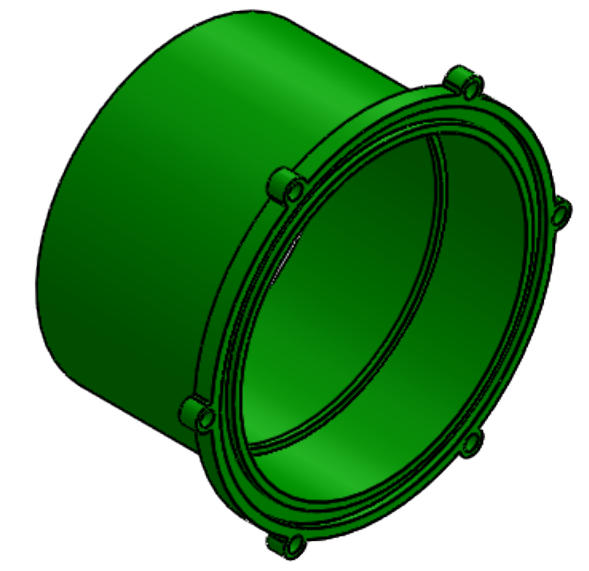
1

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DETAIL B

SCALE 2 : 1

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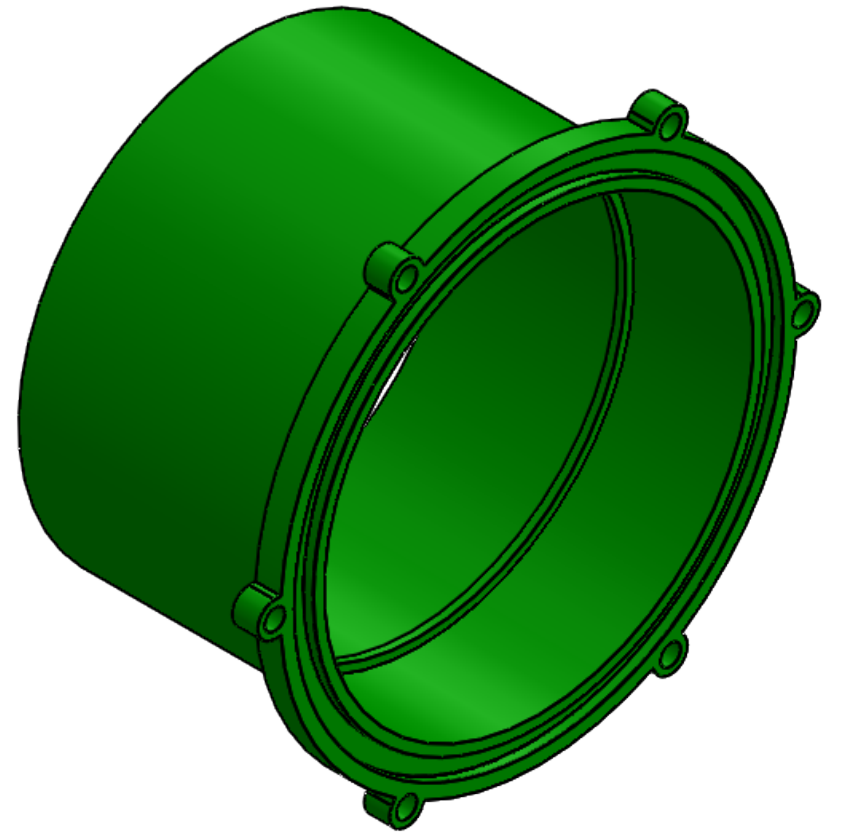
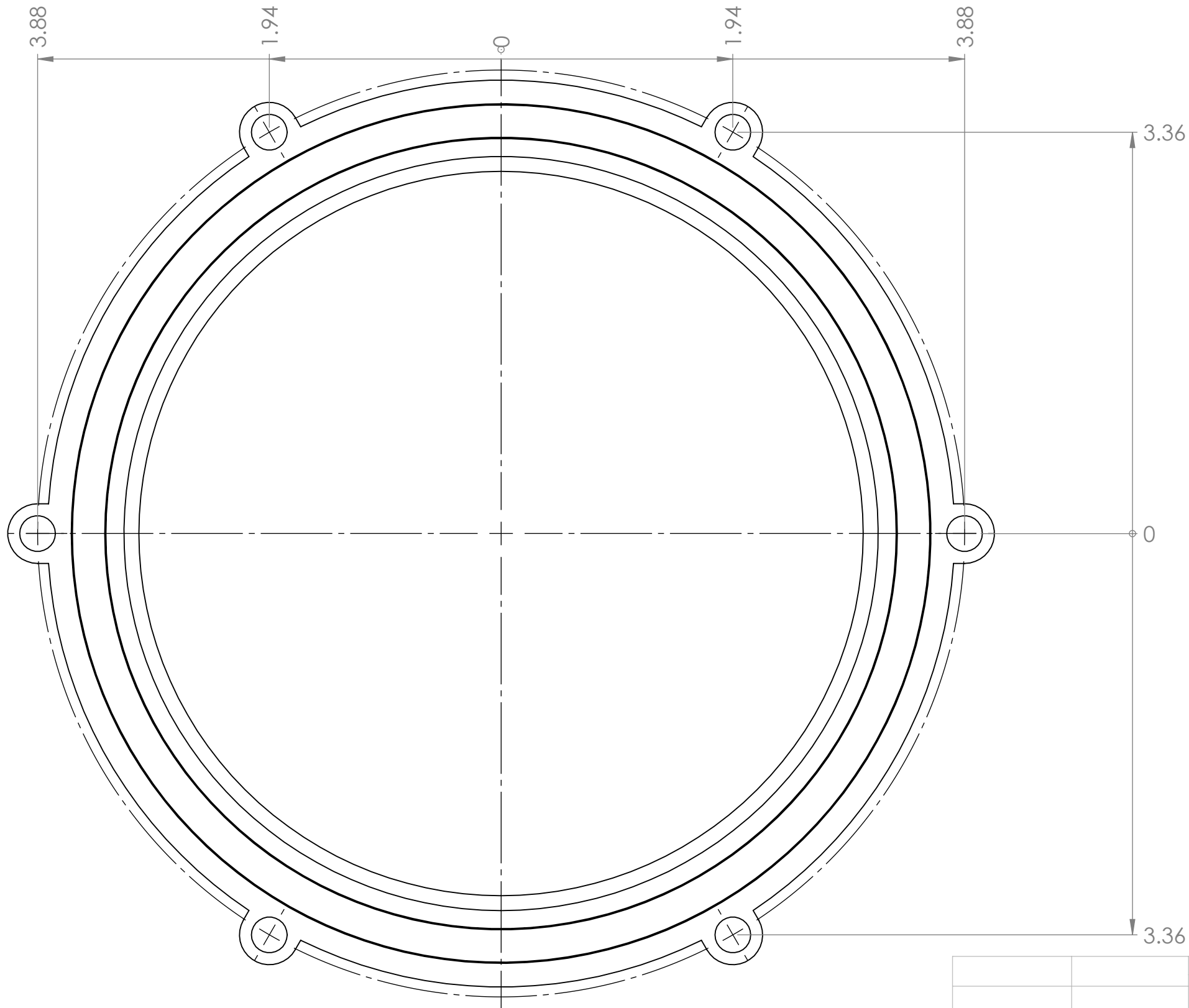
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	NAU MECC25	
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/32 ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ±0.010 THREE PLACE DECIMAL ±0.005		DRAWN	PG		
		INTERPRET GEOMETRIC TOLERANCING PER:		CHECKED			TITLE: BUOY COUPLING O-RING
		MATERIAL ABS		ENG APPR.			
NEXT ASSY	USED ON	FINISH		MFG APPR.			SIZE B
APPLICATION		DO NOT SCALE DRAWING		Q.A.			DWG. NO.
				COMMENTS: THIS MODEL USES AN O-RING AS A SEALER AND SIX PAIRS OF FASTENERS			REV
							SCALE: 1:3
							WEIGHT:
							SHEET 1 OF 2

4

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2

1



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UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN INCHES		DRAWN	PG
TOLERANCES:		CHECKED	4/2/25
FRACTIONAL ± 1/32		ENG APPR.	
ANGULAR: MACH ± BEND ±		MFG APPR.	
TWO PLACE DECIMAL ±0.010		Q.A.	
THREE PLACE DECIMAL ±0.005		COMMENTS: THIS GIVES THE COORDINATES FOR ALL OF THE HOLES USED TO SEAL THE BUOY	
INTERPRET GEOMETRIC TOLERANCING PER:		SIZE	DWG. NO.
MATERIAL		REV	
ABS			
NEXT ASSY	USED ON	SCALE: 1:1	WEIGHT:
APPLICATION		SHEET 2 OF 2	
DO NOT SCALE DRAWING			

NAU MECC25		
TITLE:		
BUOY COUPLING O-RING		
SIZE	DWG. NO.	REV
B		
SCALE: 1:1	WEIGHT:	SHEET 2 OF 2

4

3

2

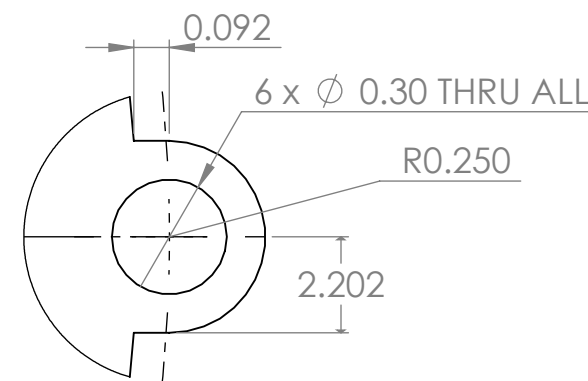
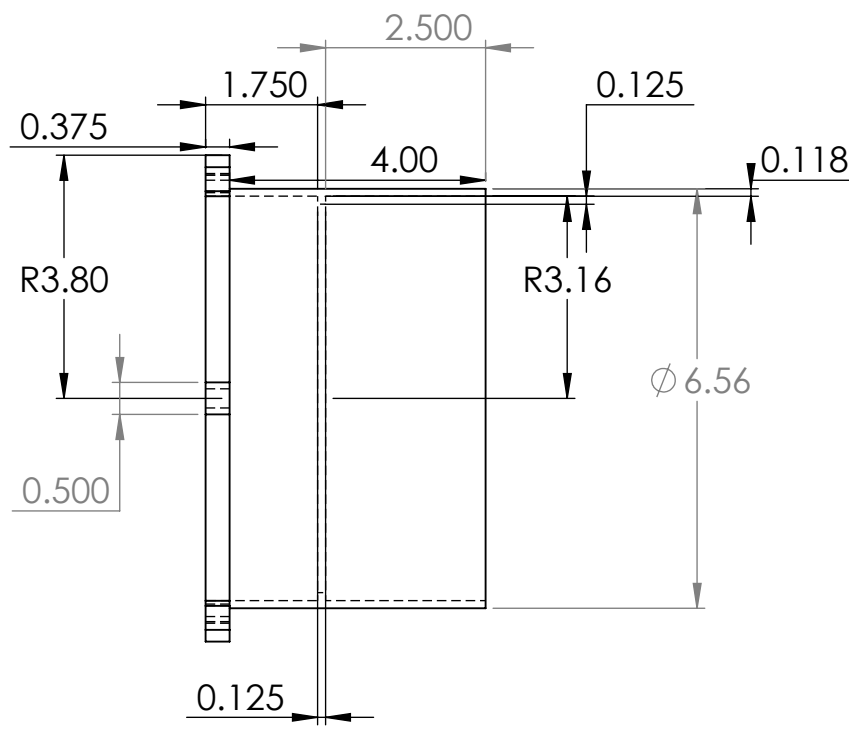
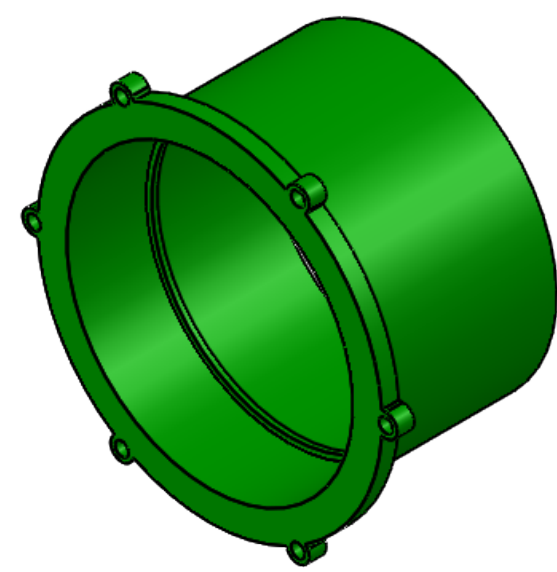
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B

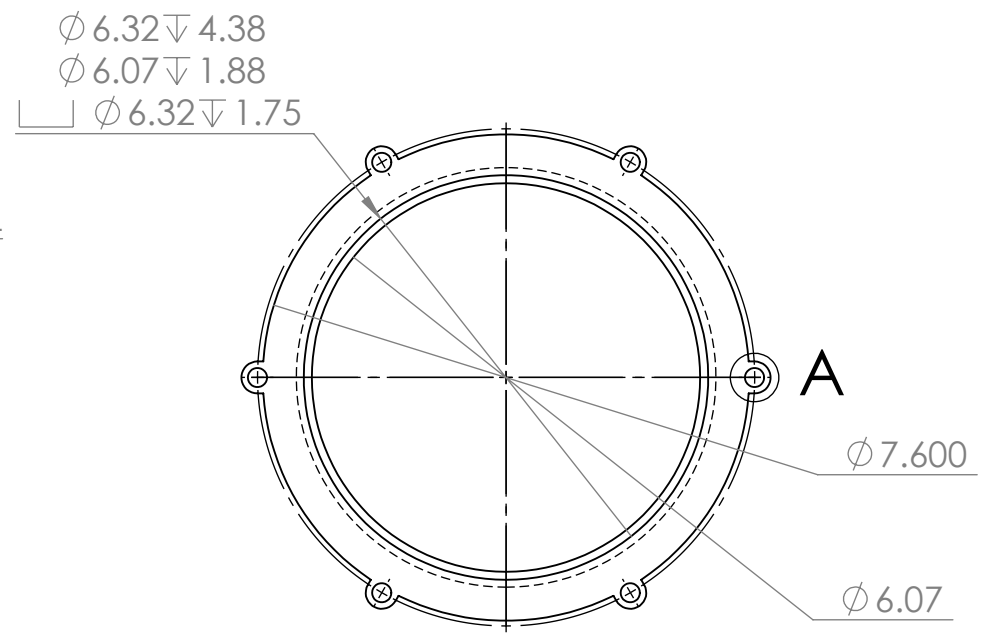
B

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DETAIL A
SCALE 2 : 1



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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	NAU MECC25	
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/32 ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ±0.010 THREE PLACE DECIMAL ±0.005		DRAWN	PG		
		INTERPRET GEOMETRIC TOLERANCING PER:		CHECKED			TITLE: BUOY COUPLING FLAT FACE
		MATERIAL ABS		ENG APPR.			
NEXT ASSY	USED ON	FINISH		MFG APPR.			SIZE DWG. NO. REV
APPLICATION		DO NOT SCALE DRAWING		Q.A.			B
				COMMENTS: THIS MODEL MATES WITH THE O-RING VERSION.			SCALE: 1:3 WEIGHT: SHEET 1 OF 2

4

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2

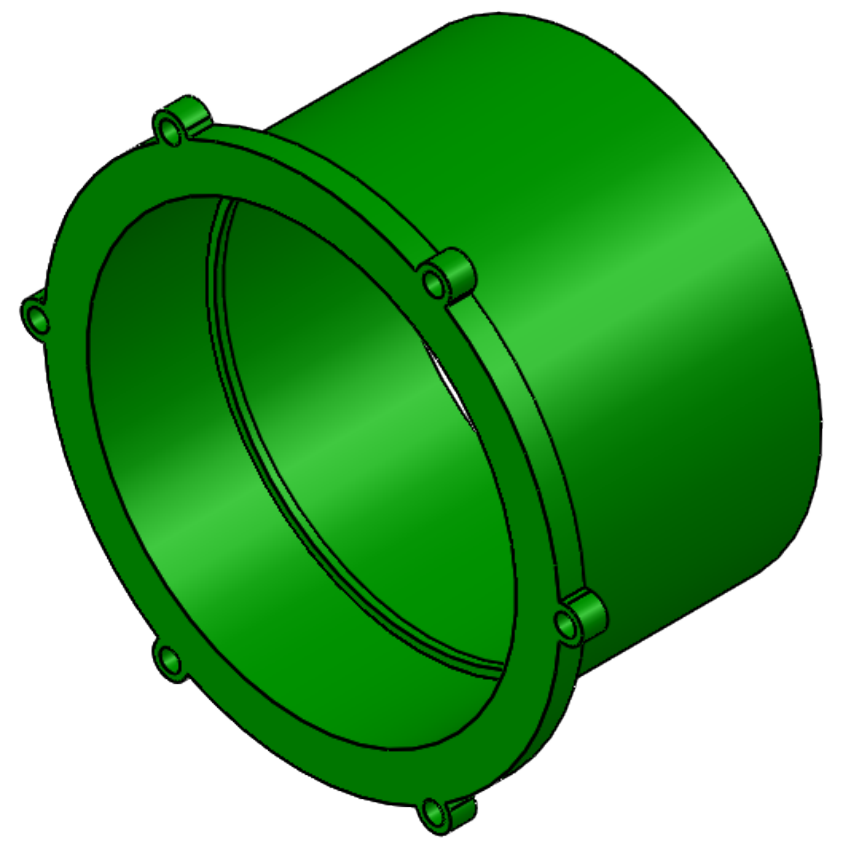
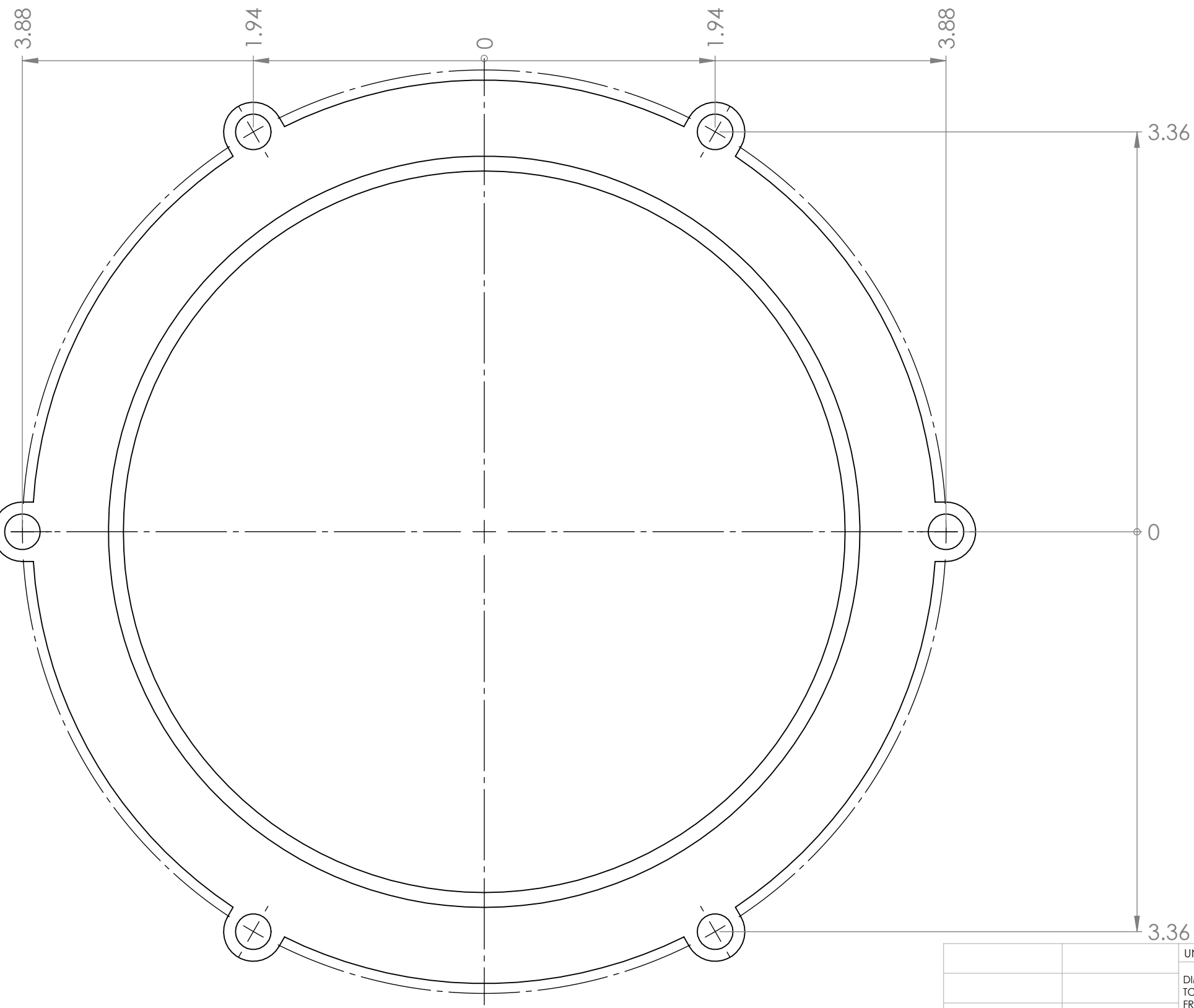
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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES		DRAWN	PG
		TOLERANCES:		CHECKED	
		FRACTIONAL ± 1/32		ENG APPR.	
		ANGULAR: MACH ±		MFG APPR.	
		BEND ±		Q.A.	
		TWO PLACE DECIMAL ±0.010		COMMENTS: THIS GIVES THE COORDINATES FOR ALL OF THE HOLES USED TO SEAL THE BUOY.	
		THREE PLACE DECIMAL ±0.005		SIZE	DWG. NO.
		INTERPRET GEOMETRIC TOLERANCING PER:		REV	
		MATERIAL		SCALE: 1:1	
		ABS		WEIGHT:	
		FINISH		SHEET 2 OF 2	
NEXT ASSY	USED ON	DO NOT SCALE DRAWING			
APPLICATION					

NAU MECC25
 TITLE:
**BUOY COUPLING
 FLAT FACE**

4

3

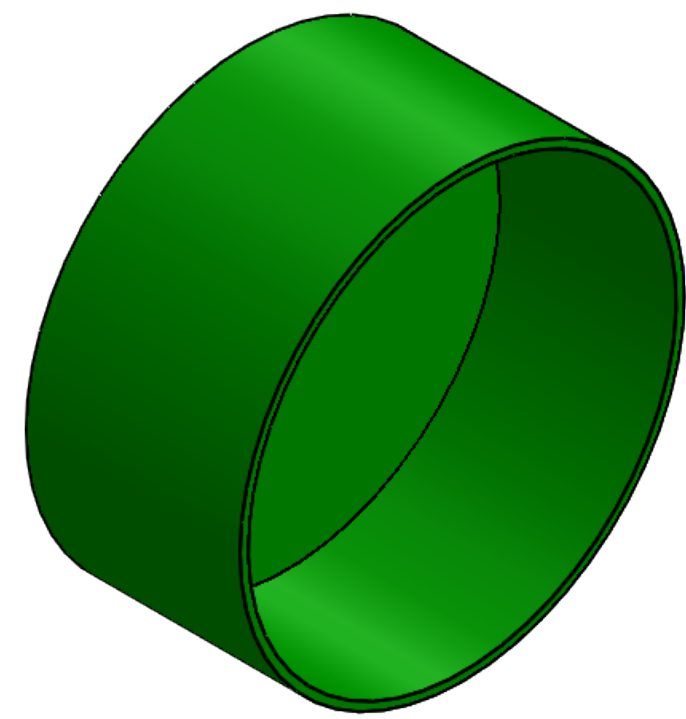
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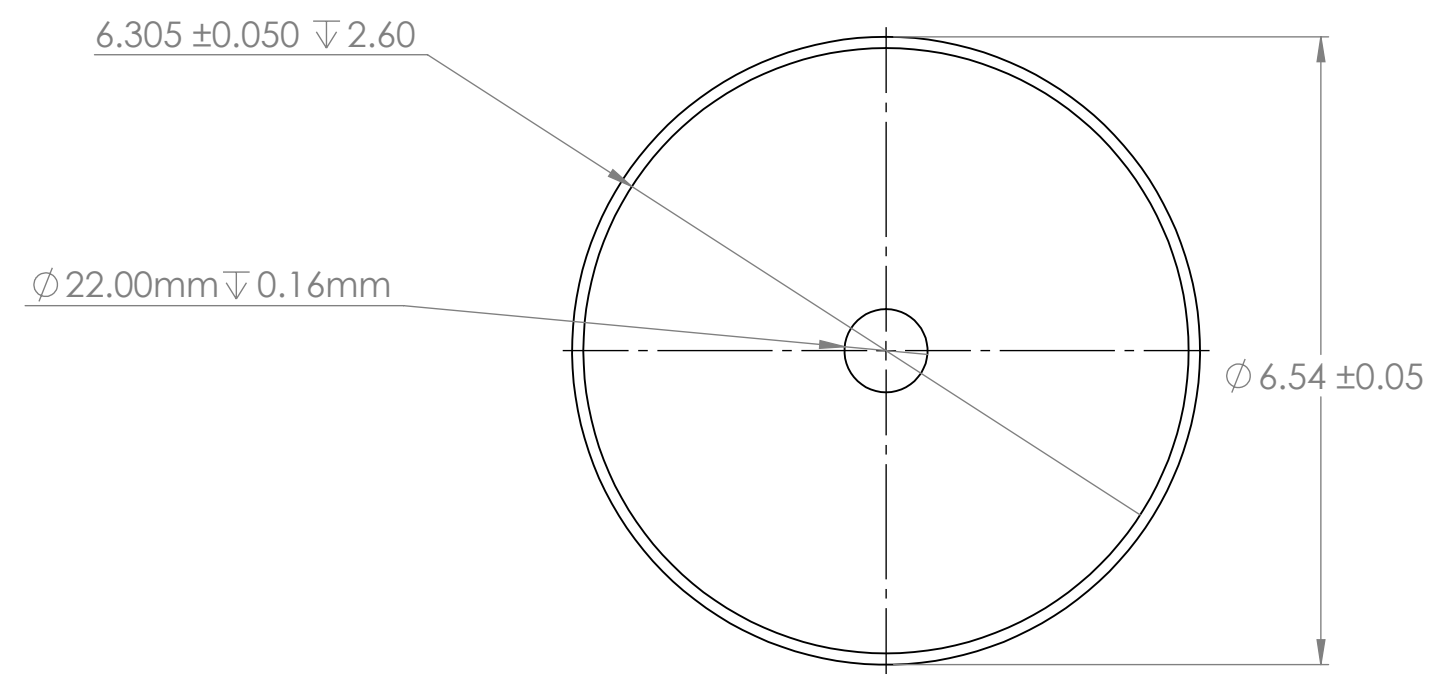
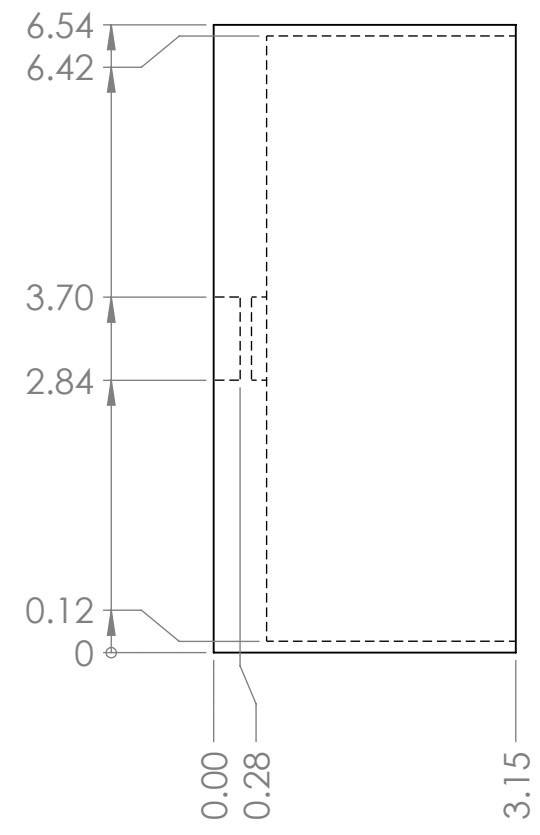
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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	NAU MECC25	
		DIMENSIONS ARE IN INCHES		DRAWN	PG	TITLE:	
		TOLERANCES:		CHECKED		ENDCAP V2	
		FRACTIONAL ± 1/32		ENG APPR.		SIZE	DWG. NO.
		ANGULAR: MACH ± BEND ±		MFG APPR.		B	REV
		TWO PLACE DECIMAL ±0.010		Q.A.		COMMENTS: DIAMETER CHANGED FROM V1 TO ALLOW ABS PIPING TO FIT AND WALL THICKNESS REDUED TO ALLOW QUICKER FABRICATION.	
		THREE PLACE DECIMAL ±0.005				SCALE: 1:2	WEIGHT:
		INTERPRET GEOMETRIC TOLERANCING PER:				SHEET 1 OF 1	
		MATERIAL					
		ABS					
NEXT ASSY	USED ON	FINISH					
APPLICATION		DO NOT SCALE DRAWING					

3

2

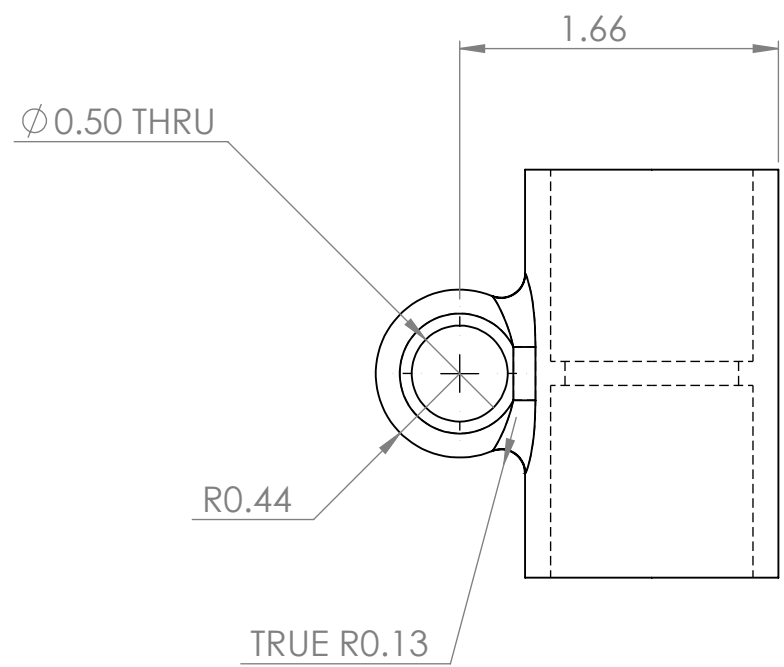
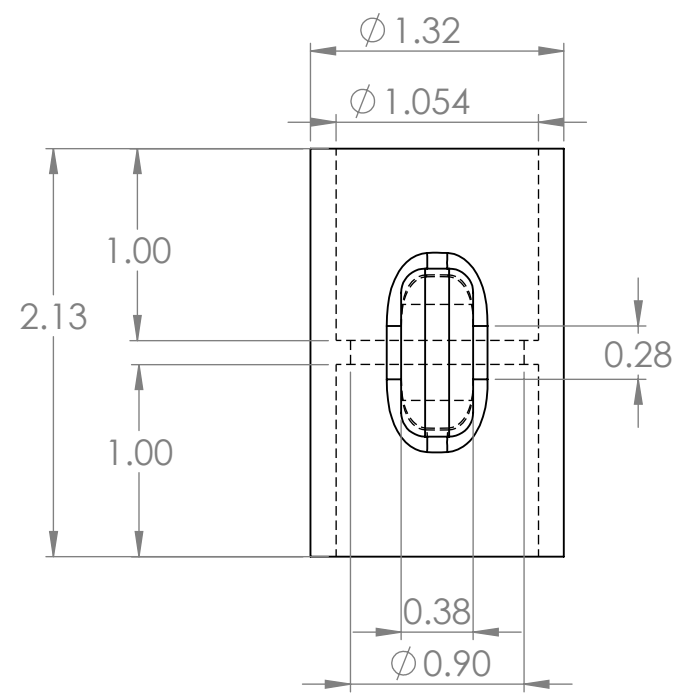
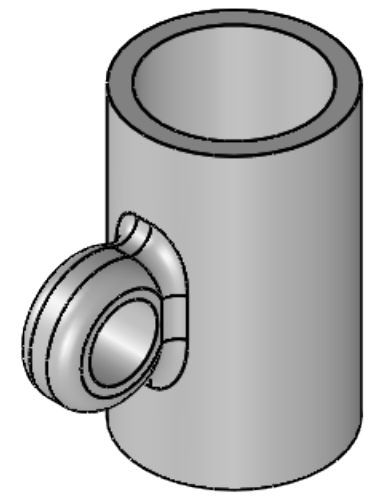
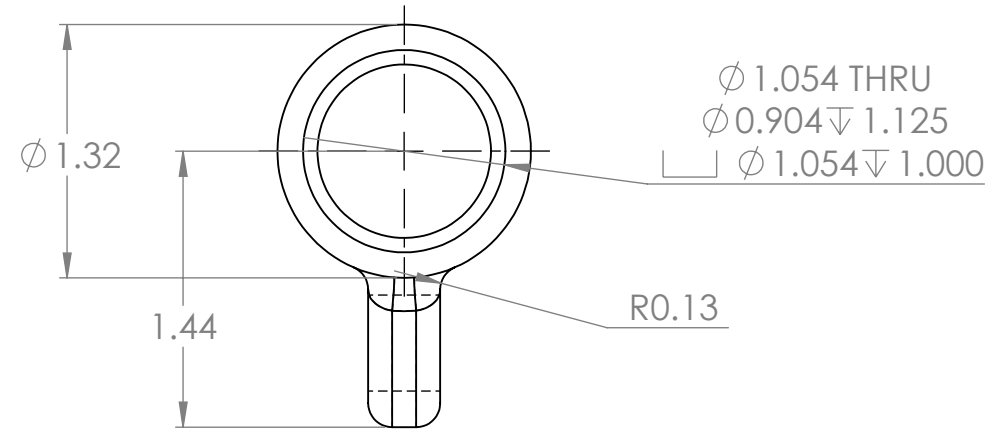
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		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/32$ ANGULAR: MACH \pm BEND \pm TWO PLACE DECIMAL ± 0.010 THREE PLACE DECIMAL ± 0.005		DRAWN	PG		
		INTERPRET GEOMETRIC TOLERANCING PER:		CHECKED		TITLE: GUIDE WIRE	
		MATERIAL ABS		ENG APPR.			
		FINISH		MFG APPR.		SIZE DWG. NO. REV	
NEXT ASSY	USED ON	APPLICATION		Q.A.		SCALE: 1:1 WEIGHT: SHEET 1 OF 1	
		DO NOT SCALE DRAWING		COMMENTS: THE GUIDE WIRE IS MEANT AS GUIDANCE FOR THE WIRE THAT WILL LOOP AROUND THE BUOY.			

3

2

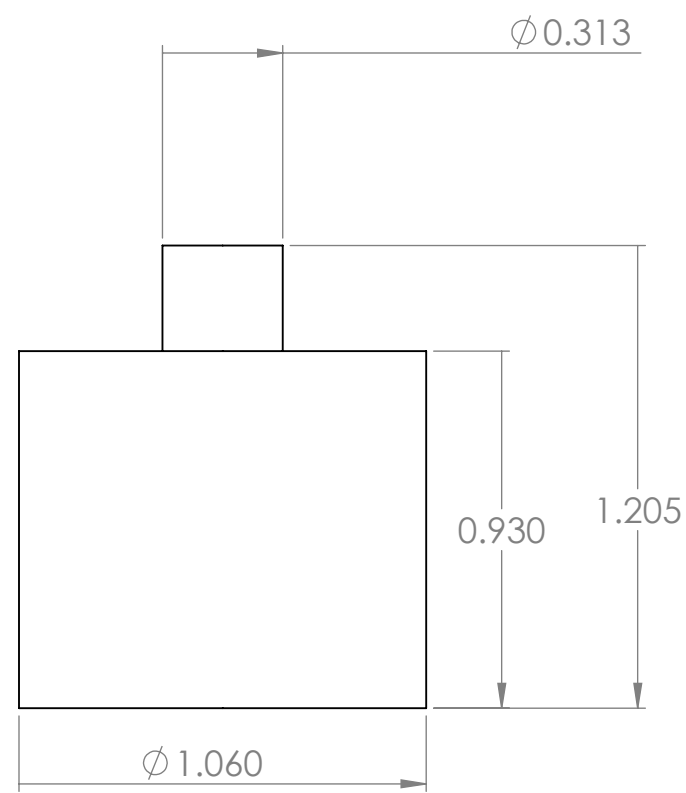
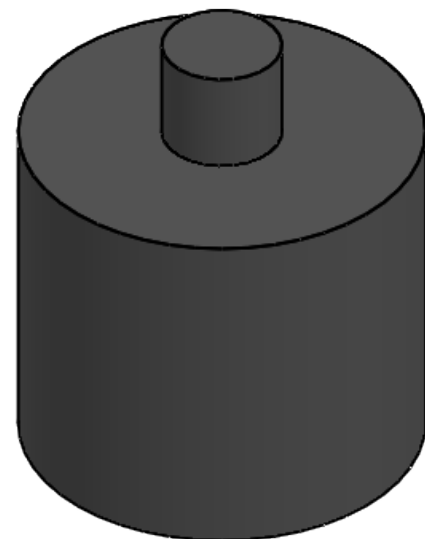
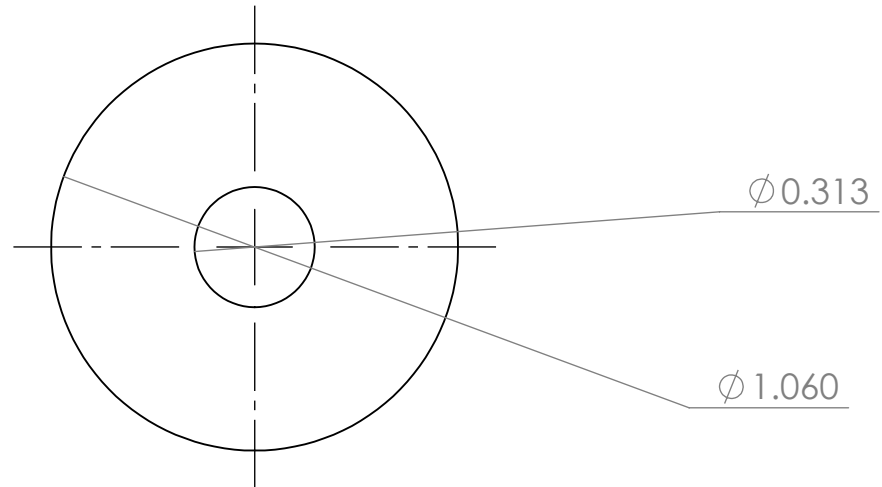
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		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/32 ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ±0.010 THREE PLACE DECIMAL ±0.005		DRAWN	PG		
		INTERPRET GEOMETRIC TOLERANCING PER:		CHECKED			TITLE: ELBOW BEARING ADAPTER
		MATERIAL ABS		ENG APPR.			
NEXT ASSY	USED ON	FINISH		MFG APPR.			SIZE DWG. NO. REV
APPLICATION		DO NOT SCALE DRAWING		Q.A.			SCALE: 2:1 WEIGHT: SHEET 1 OF 1
				COMMENTS: THIS IS SET INTO A 1" PVC COUPLING TO HOLD A 608 BEARING CONCENTRIC TO THE COUPLING.			

3

2

1