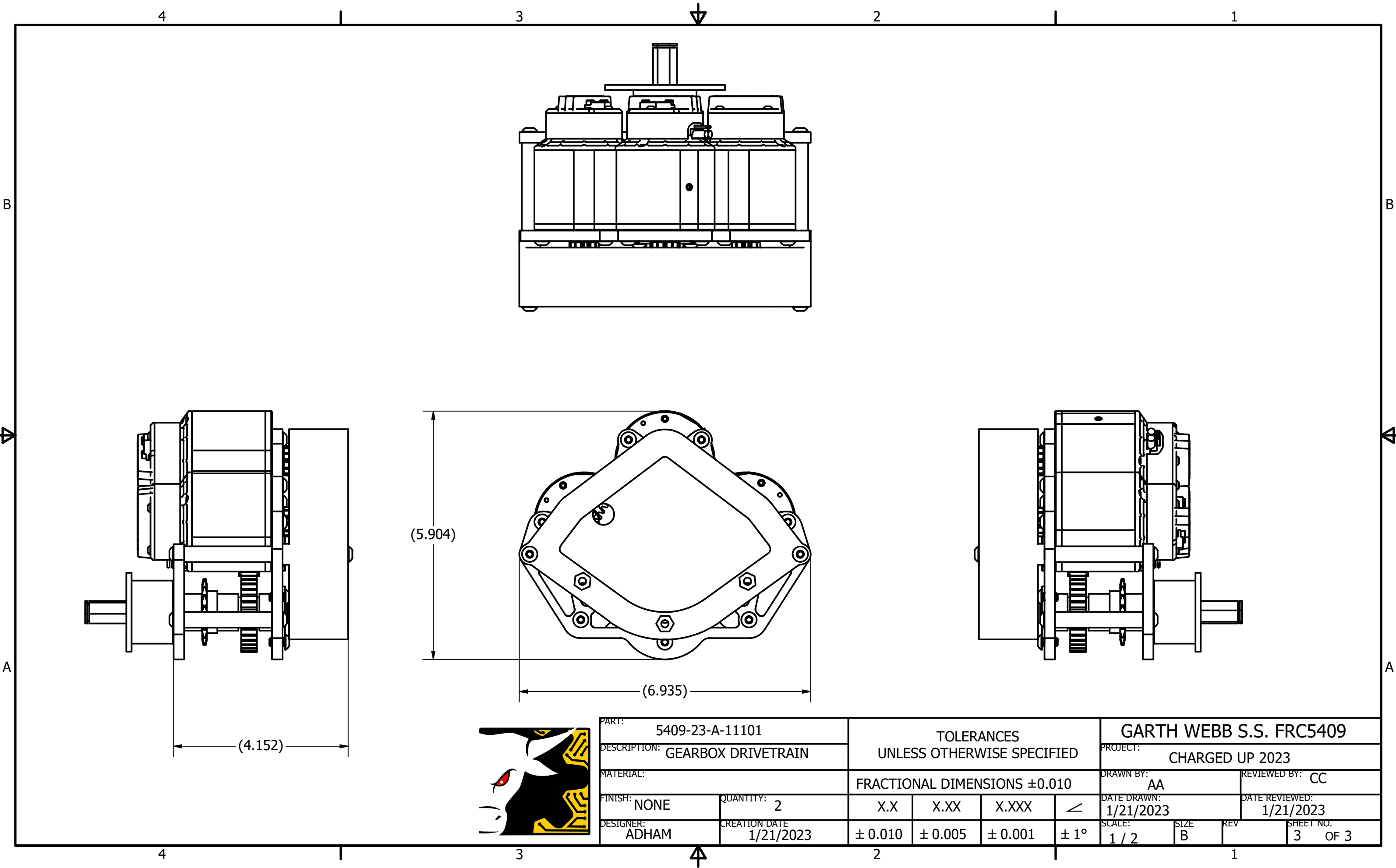


PART: 5409-23-A-11101		TOLERANCES UNLESS OTHERWISE SPECIFIED				GARTH WEBB S.S. FRC5409			
DESCRIPTION: DRIVETRAIN GEARBOX						PROJECT: CHARGED UP 2023			
MATERIAL:		FRACTIONAL DIMENSIONS ±0.010				DRAWN BY: AA		REVIEWED BY: CC	
FINISH: NONE	QUANTITY: 2	X.X	X.XX	X.XXX	≤	DATE DRAWN: 1/21/2023		DATE REVIEWED: 1/21/2023	
DESIGNER: ADHAM	CREATION DATE 1/21/2023	± 0.010	± 0.005	± 0.001	± 1°	SCALE: 1 / 4	SIZE B	REV 1	SHEET NO. 1 OF 3

4	3	2	1
Parts List			
ITEM	QTY	PART NUMBER	
1	2	5409-23-P-10001 GEAR SPACER AA	
2	1	5409-23-P-11002 SPROCKET SPACER AA	
3	4	5409-23-P-11004 STANCHION AA	
4	1	5409-23-P-11005 TOP HEX SHAFT AA	
5	1	5409-23-P-11006 WHEEL HEX SHAFT AA	
6	1	5409-23-P-11007 BIG PLATE AA	
7	1	5409-23-P-11008 RAIL SIDE PLATE AA	
8	1	5409-23-P-11010 BIG GEAR SPACER AA	
9	3	217-6515, FALCON 500	
10	2	am-2986 FR8ZZ Hex Bearing	
11	2	0.500 ID x 1.125 OD x 0.313 WD (FLANGED BEARING)	
12	1	68T Aluminum Spur Gear, 217-5477	
13	1	_18t_Aluminum_Hub_Sprocket 217-3488	
14	1	5409-23-P-11003 AA	
15	1	217-3634, VEX GEARBOX BEARING BLOCK	
16	3	217-6919-001, 12 T VEX FALCON GEAR	
17	1	28T Aluminum Spur Gear , 217-5467	
18	1	36T Aluminum Spur Gear, 217-3214	
19	3	Falcon Motor Spacer 1_8.	
20	3	Falcon Motor Spacer 1_16	
21	3	Falcon Motor Spacer 1_4	
22	18	BHCS - #10-32 x 0.5 LG	
23	3	BHCS - #10-32 x 0.375 LG	
24	2	BHCS - #10-32 x 1.75 LG	
25	1	5409-23-P-11009 SPROCKET BEARING SPACER AA	
26	1	5409-23-XP-10011 FRONT COVER	
27	1	am-4177 6in Perf 1.5wide 500 Hex	
28	1	5409-23-P-11011 FRONT COVER	
29	1	5409-23-P-11012 POLYCARB PROTECTOR AA	

PART: 5409-23-A-1101		TOLERANCES UNLESS OTHERWISE SPECIFIED				GARTH WEBB S.S. FRC5409			
DESCRIPTION: DRIVETRAIN GEARBOX						PROJECT: CHARGED UP 2023			
MATERIAL:		FRACTIONAL DIMENSIONS ±0.010				DRAWN BY: AA		REVIEWED BY: CC	
FINISH: NONE	QUANTITY: 2	X.X	X.XX	X.XXX	≤	DATE DRAWN: 1/21/2023		DATE REVIEWED: 1/21/2023	
DESIGNER: ADHAM	CREATION DATE 1/21/2023	± 0.010	± 0.005	± 0.001	± 1°	SCALE:	SIZE B	REV	SHEET NO. 2 OF 3



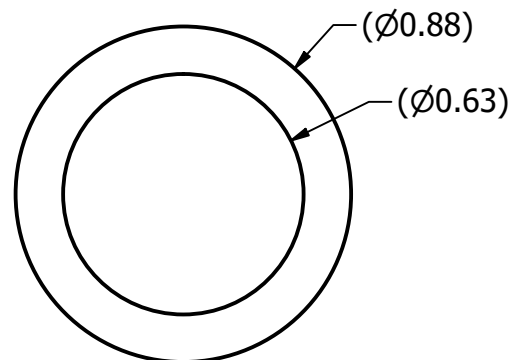
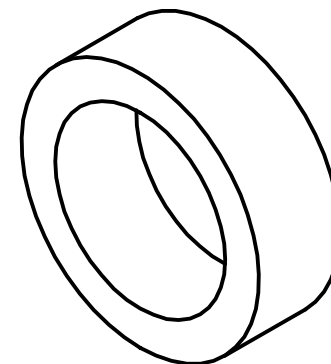
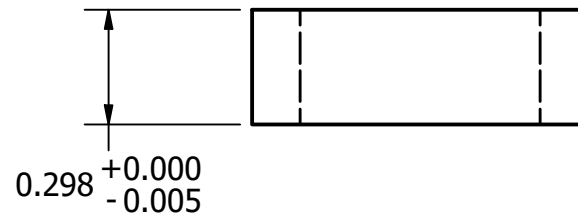
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1

B

B



DIMENSIONS ARE IN INCHES

A



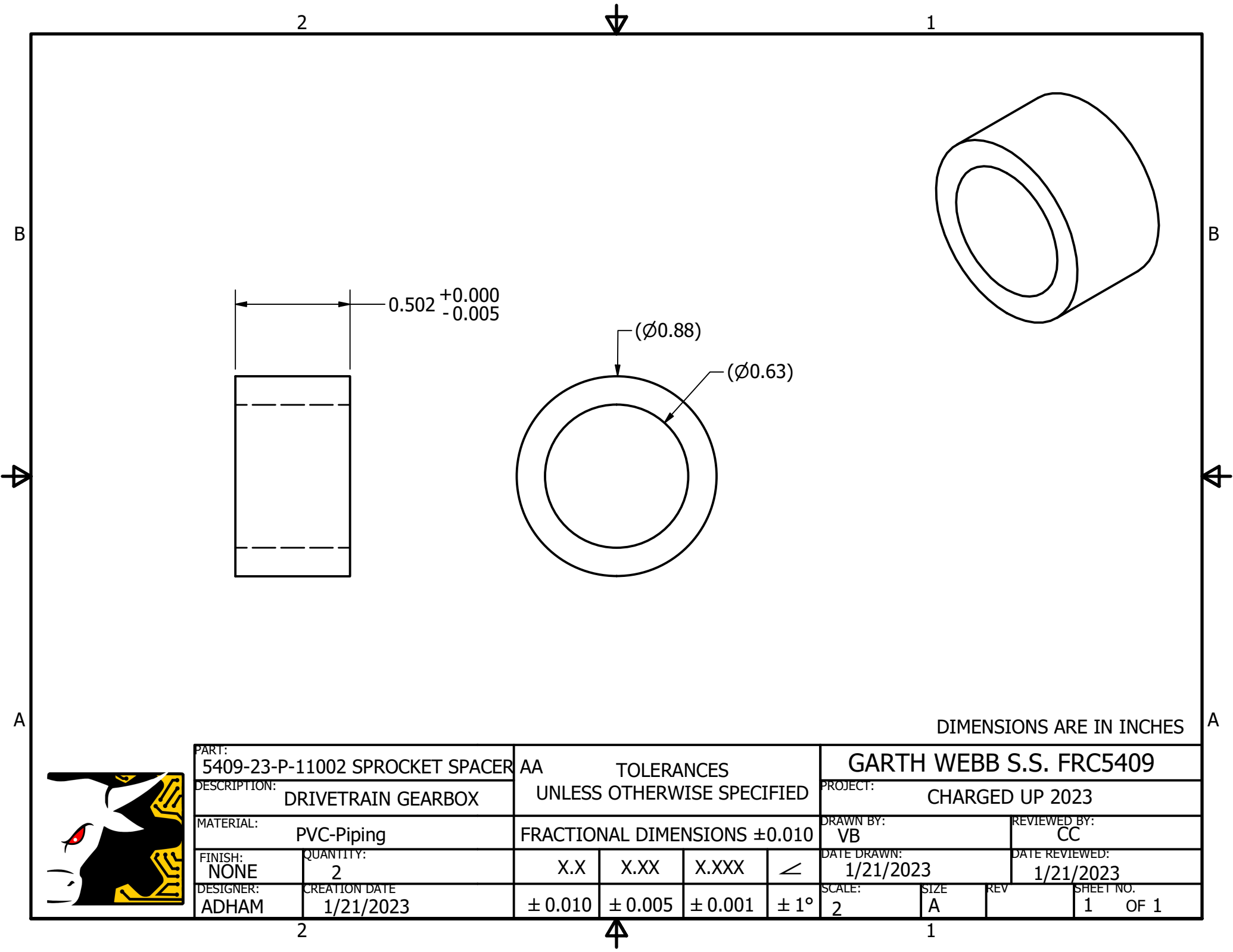
PART: 5409-23-P-11001 GEAR SPACER AA		TOLERANCES UNLESS OTHERWISE SPECIFIED				GARTH WEBB S.S. FRC5409			
DESCRIPTION: DRIVTRAIN GEARBOX						PROJECT: CHARGED UP 2023			
MATERIAL: PVC-Piping		FRACTIONAL DIMENSIONS ±0.010				DRAWN BY: VB		REVIEWED BY: CC	
FINISH: NONE	QUANTITY: 4	X.X	X.XX	X.XXX	∠	DATE DRAWN: 1/21/2023		DATE REVIEWED: 1/21/2023	
DESIGNER: AA	CREATION DATE 1/21/2023	± 0.010	± 0.005	± 0.001	± 1°	SCALE: 2	SIZE A	REV	SHEET NO. 1 OF 1

2



1

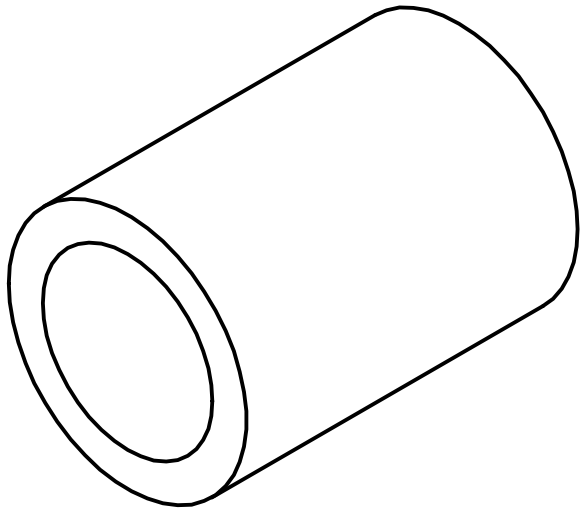
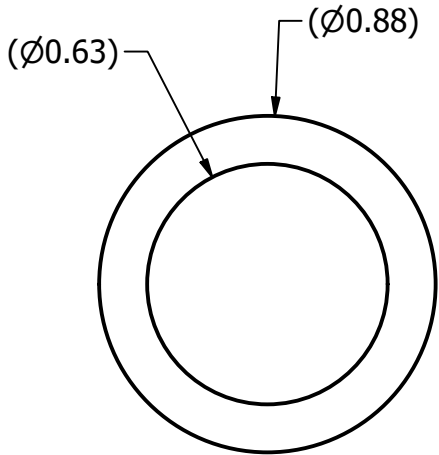
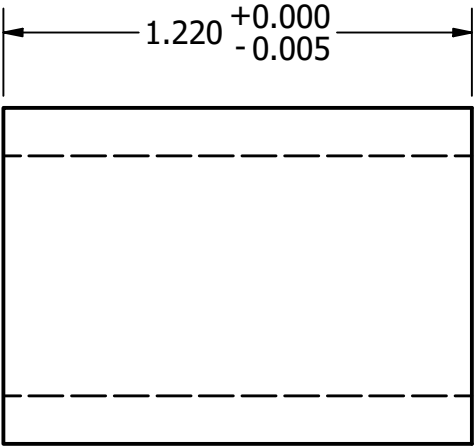
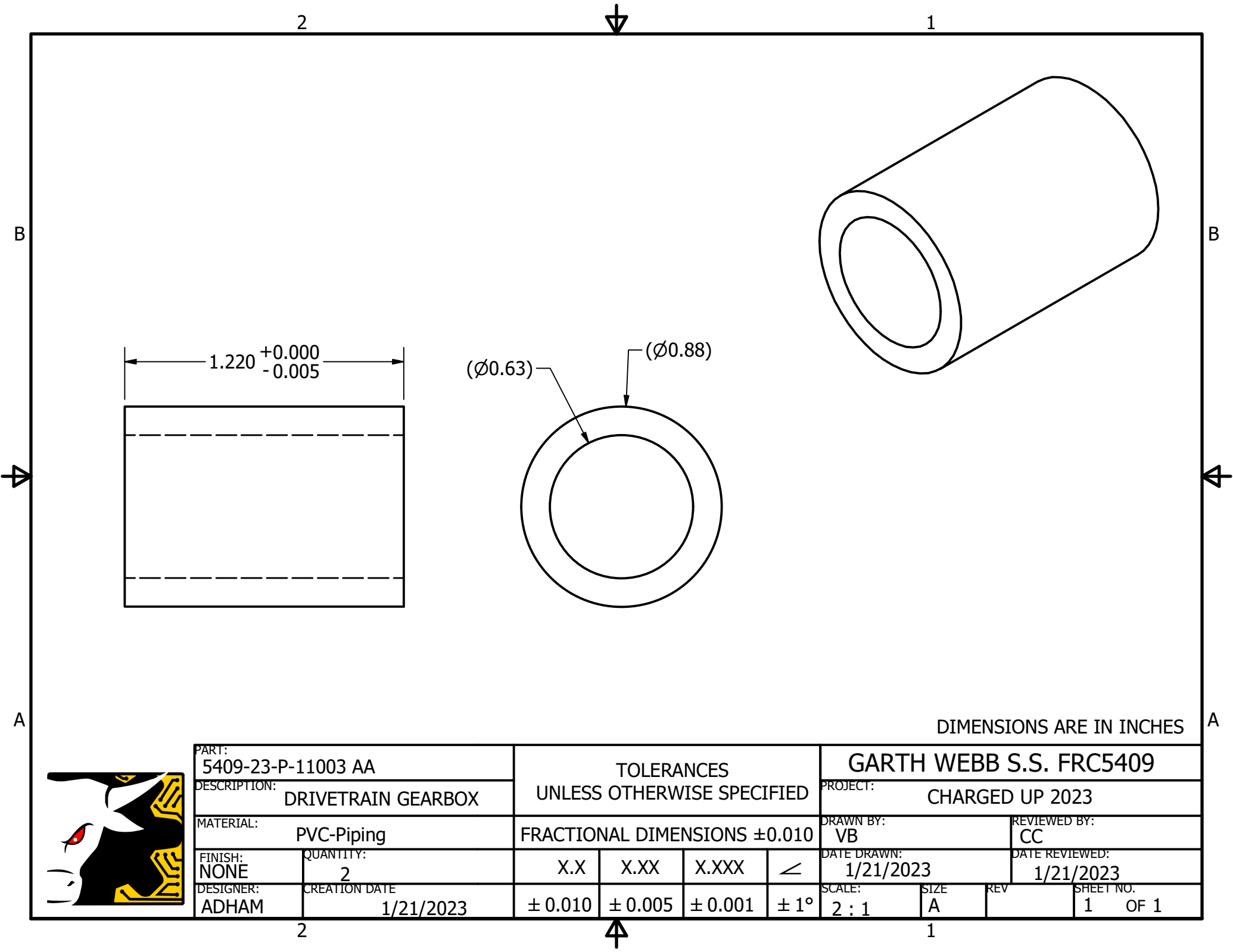
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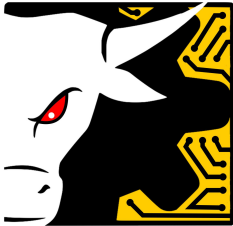
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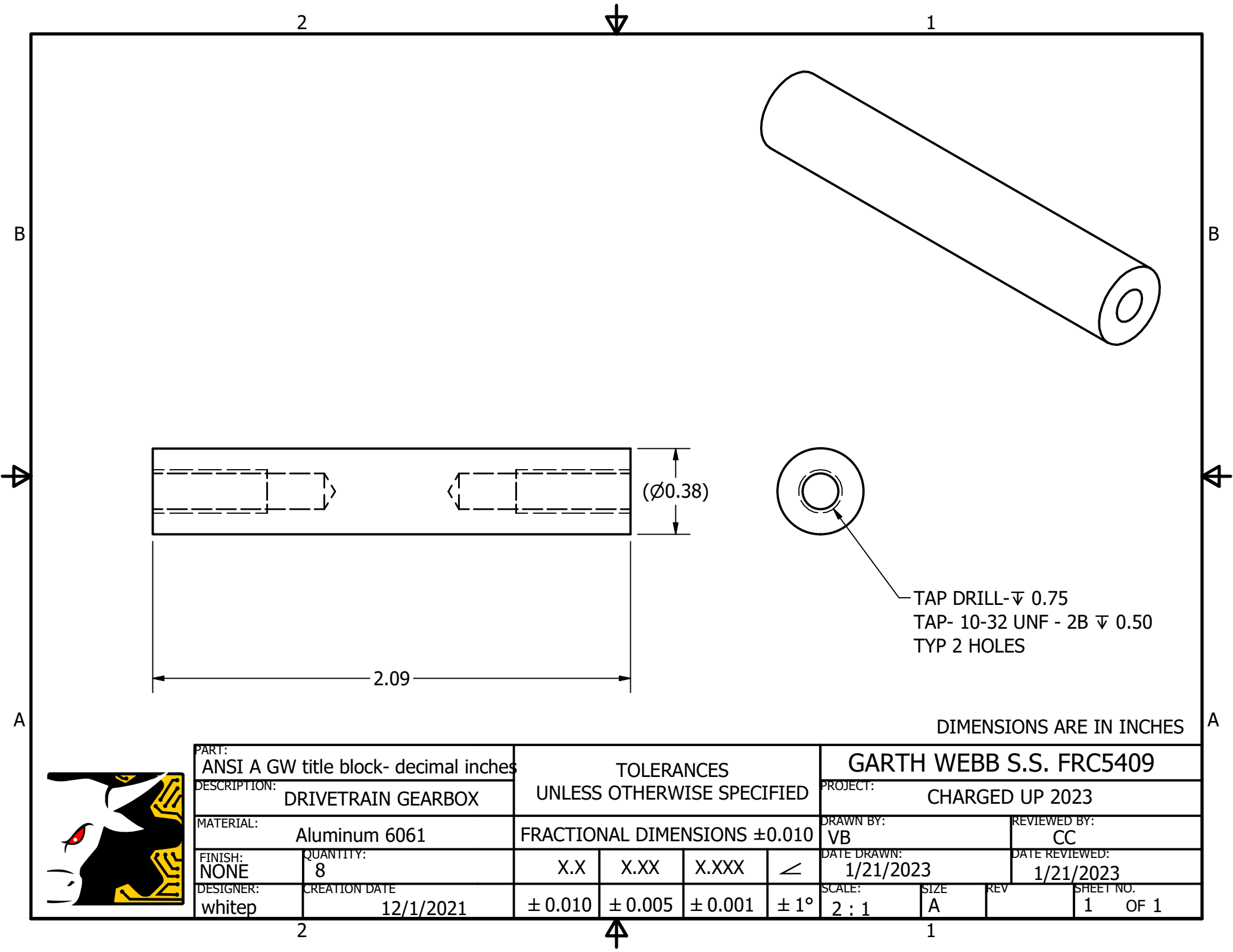
PART: 5409-23-P-11002 SPROCKET SPACER		AA TOLERANCES UNLESS OTHERWISE SPECIFIED				GARTH WEBB S.S. FRC5409			
DESCRIPTION: DRIVETRAIN GEARBOX		FRACTIONAL DIMENSIONS ±0.010				PROJECT: CHARGED UP 2023			
MATERIAL: PVC-Piping						DRAWN BY: VB		REVIEWED BY: CC	
FINISH: NONE	QUANTITY: 2	X.X	X.XX	X.XXX	∠	DATE DRAWN: 1/21/2023		DATE REVIEWED: 1/21/2023	
DESIGNER: ADHAM	CREATION DATE 1/21/2023	± 0.010	± 0.005	± 0.001	± 1°	SCALE: 2	SIZE A	REV	SHEET NO. 1 OF 1



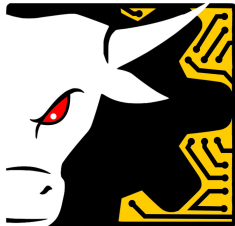
DIMENSIONS ARE IN INCHES



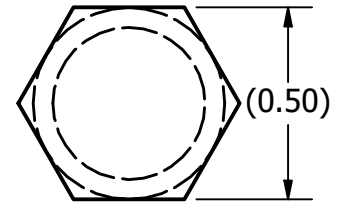
PART: 5409-23-P-11003 AA		TOLERANCES UNLESS OTHERWISE SPECIFIED				GARTH WEBB S.S. FRC5409			
DESCRIPTION: DRIVETRAIN GEARBOX						PROJECT: CHARGED UP 2023			
MATERIAL: PVC-Piping		FRACTIONAL DIMENSIONS ±0.010				DRAWN BY: VB		REVIEWED BY: CC	
FINISH: NONE	QUANTITY: 2	X.X	X.XX	X.XXX	∠	DATE DRAWN: 1/21/2023		DATE REVIEWED: 1/21/2023	
DESIGNER: ADHAM	CREATION DATE 1/21/2023	± 0.010	± 0.005	± 0.001	± 1°	SCALE: 2 : 1	SIZE A	REV	SHEET NO. 1 OF 1



DIMENSIONS ARE IN INCHES



PART: ANSI A GW title block- decimal inches		TOLERANCES UNLESS OTHERWISE SPECIFIED				GARTH WEBB S.S. FRC5409			
DESCRIPTION: DRIVETRAIN GEARBOX						PROJECT: CHARGED UP 2023			
MATERIAL: Aluminum 6061		FRACTIONAL DIMENSIONS ±0.010				DRAWN BY: VB		REVIEWED BY: CC	
FINISH: NONE	QUANTITY: 8	X.X	X.XX	X.XXX	∠	DATE DRAWN: 1/21/2023		DATE REVIEWED: 1/21/2023	
DESIGNER: whitep	CREATION DATE 12/1/2021	± 0.010	± 0.005	± 0.001	± 1°	SCALE: 2 : 1	SIZE A	REV	SHEET NO. 1 OF 1



B

**A**



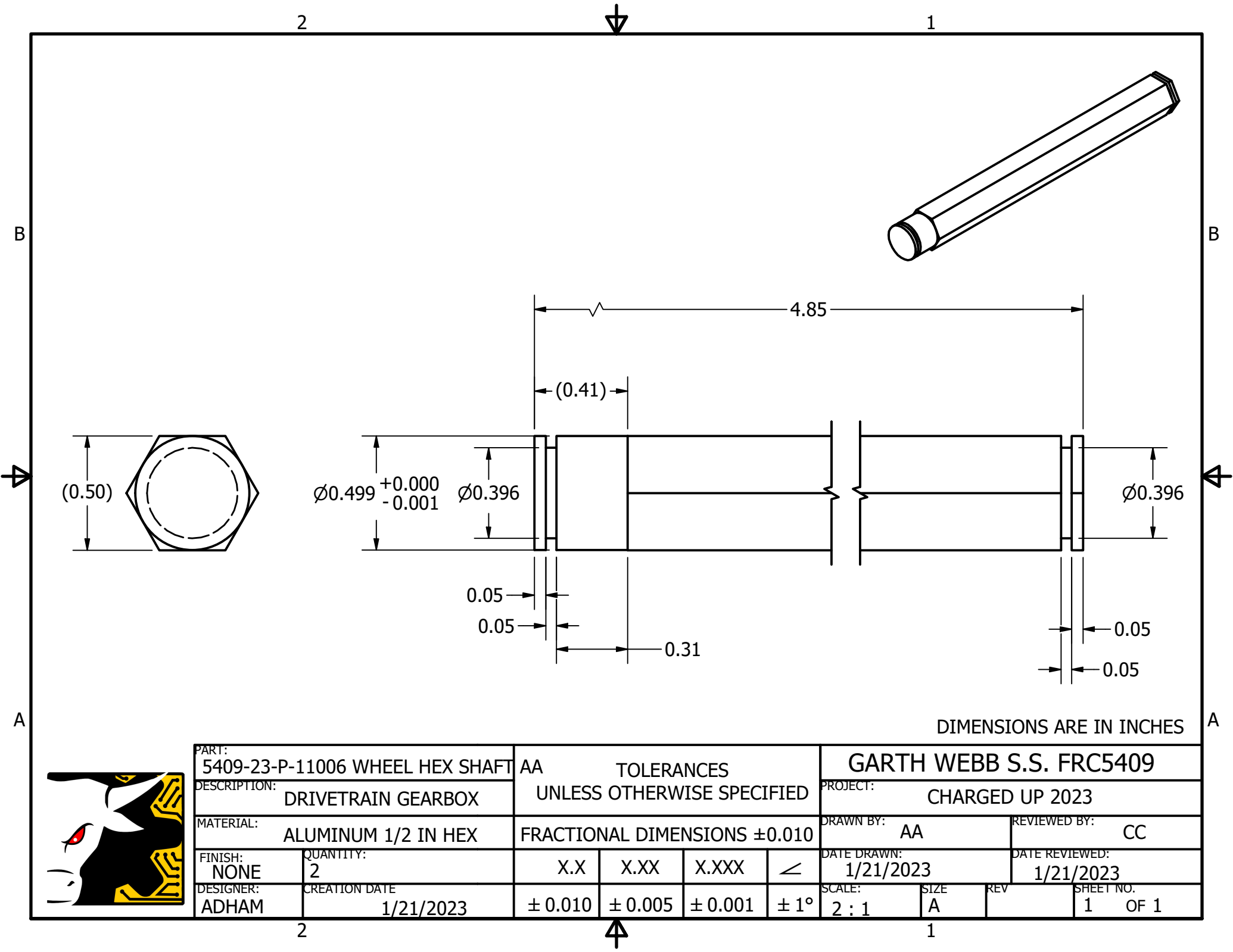
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2

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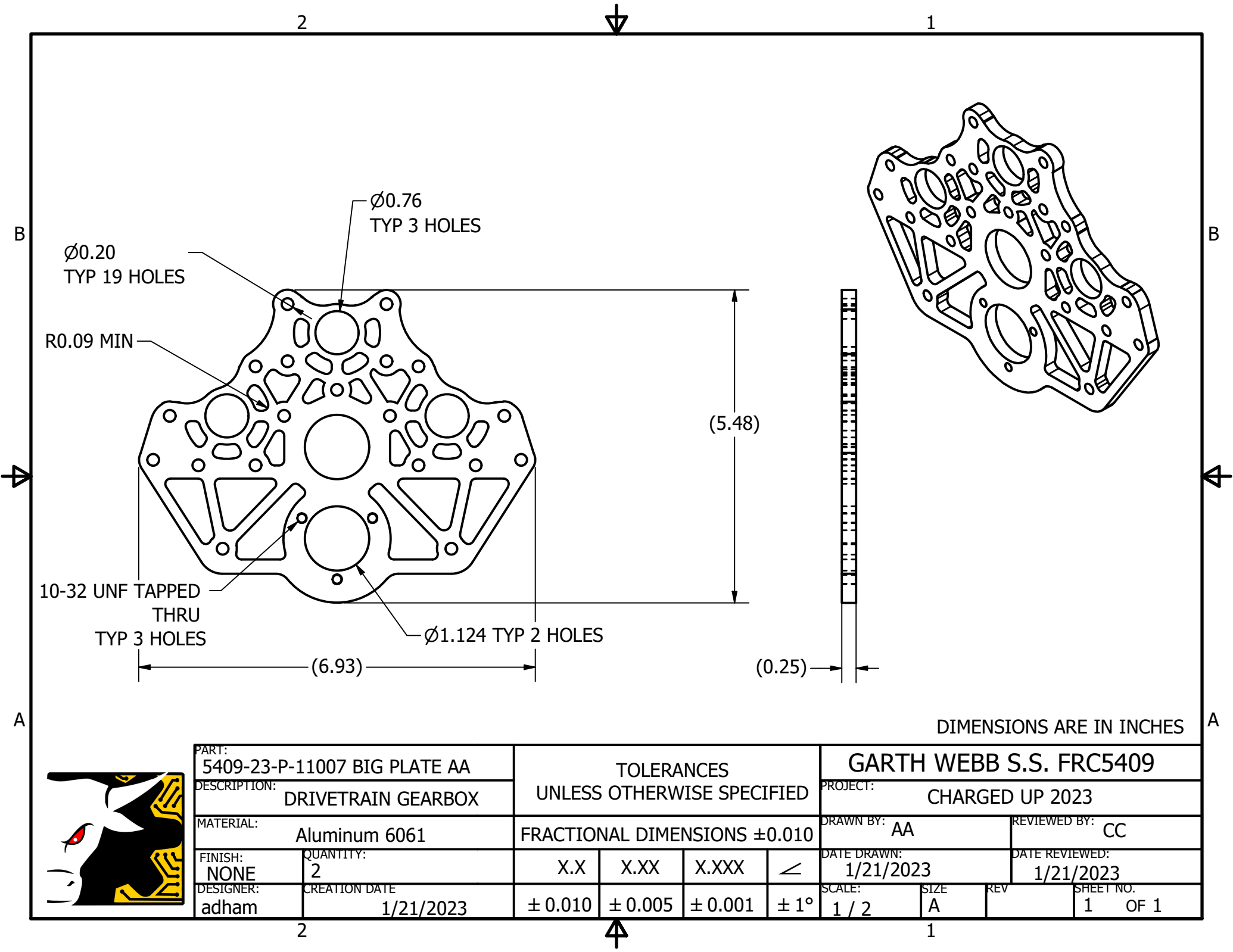
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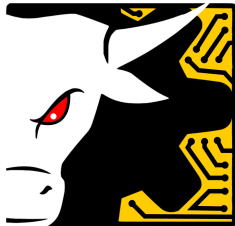


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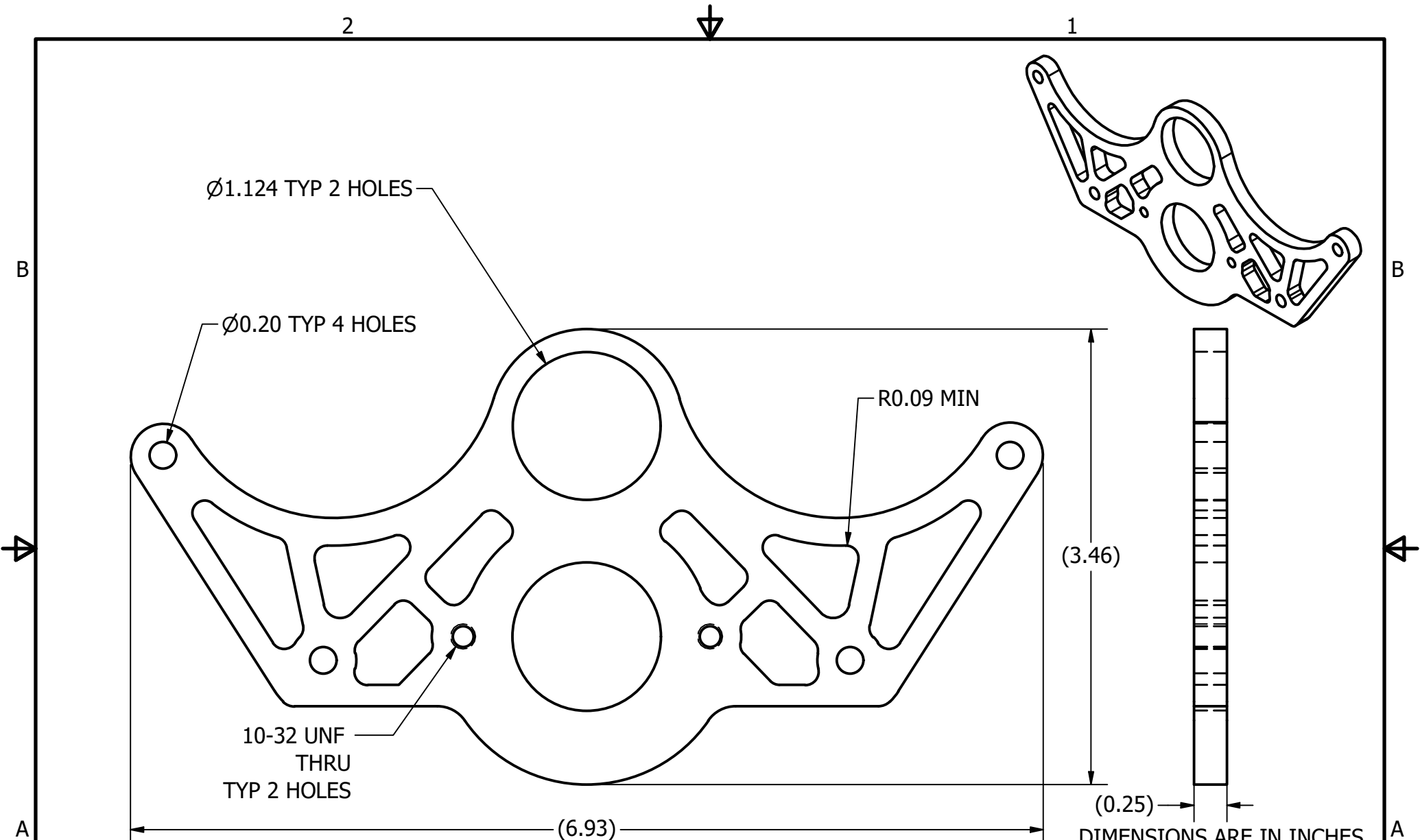
PART: 5409-23-P-11006 WHEEL HEX SHAFT		AA TOLERANCES UNLESS OTHERWISE SPECIFIED				GARTH WEBB S.S. FRC5409			
DESCRIPTION: DRIVETRAIN GEARBOX		FRACTIONAL DIMENSIONS $\pm 0.010$				PROJECT: CHARGED UP 2023			
MATERIAL: ALUMINUM 1/2 IN HEX						DRAWN BY: AA		REVIEWED BY: CC	
FINISH: NONE	QUANTITY: 2	X.X	X.XX	X.XXX	$\angle$	DATE DRAWN: 1/21/2023		DATE REVIEWED: 1/21/2023	
DESIGNER: ADHAM	CREATION DATE 1/21/2023	$\pm 0.010$	$\pm 0.005$	$\pm 0.001$	$\pm 1^\circ$	SCALE: 2 : 1	SIZE A	REV	SHEET NO. 1 OF 1



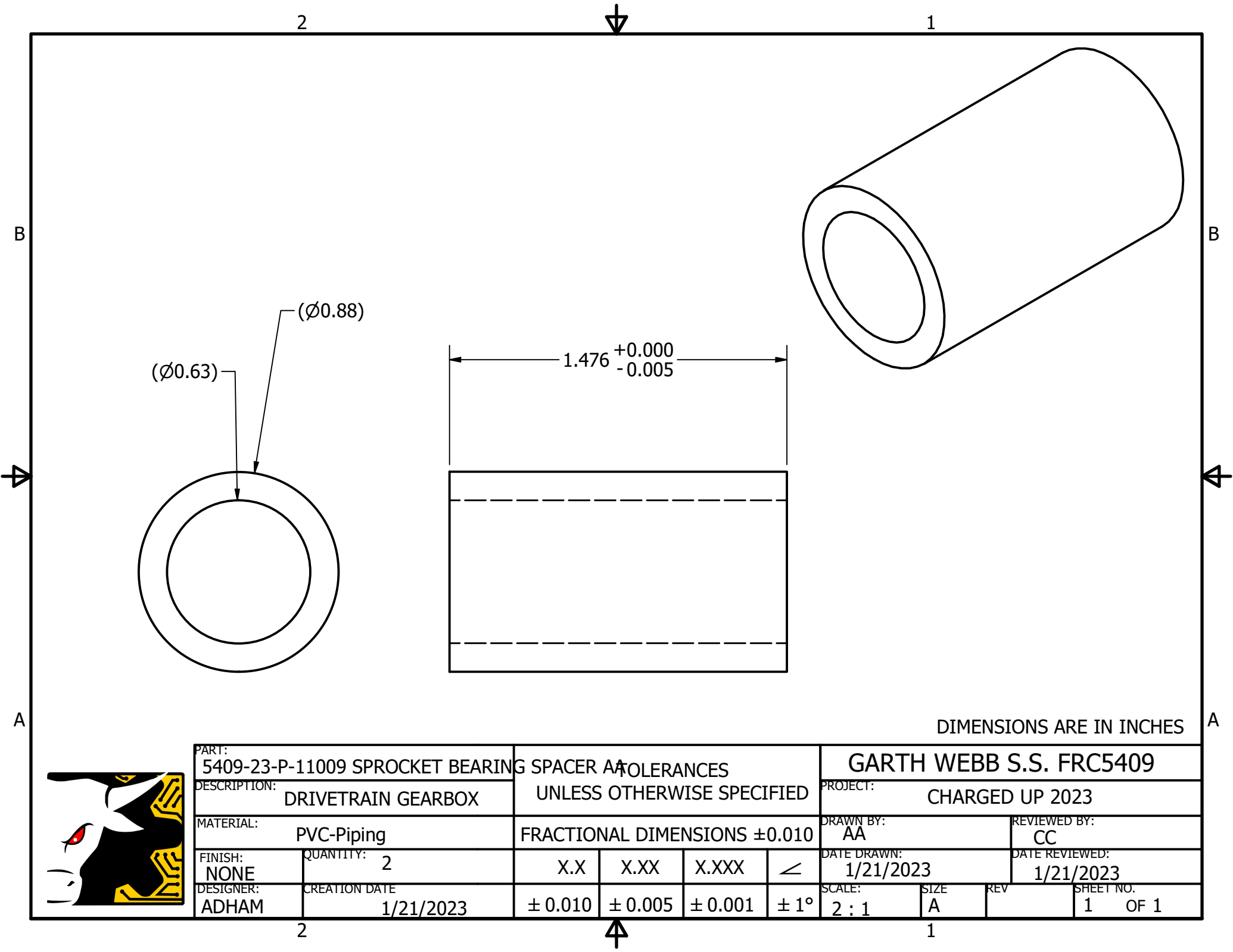
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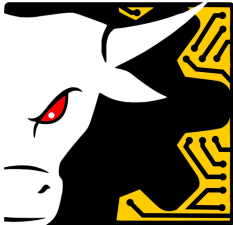
PART: 5409-23-P-11007 BIG PLATE AA		TOLERANCES UNLESS OTHERWISE SPECIFIED				GARTH WEBB S.S. FRC5409			
DESCRIPTION: DRIVETRAIN GEARBOX						PROJECT: CHARGED UP 2023			
MATERIAL: Aluminum 6061		FRACTIONAL DIMENSIONS ±0.010				DRAWN BY: AA		REVIEWED BY: CC	
FINISH: NONE	QUANTITY: 2	X.X	X.XX	X.XXX	∠	DATE DRAWN: 1/21/2023		DATE REVIEWED: 1/21/2023	
DESIGNER: adham	CREATION DATE 1/21/2023	± 0.010	± 0.005	± 0.001	± 1°	SCALE: 1 / 2	SIZE A	REV	SHEET NO. 1 OF 1



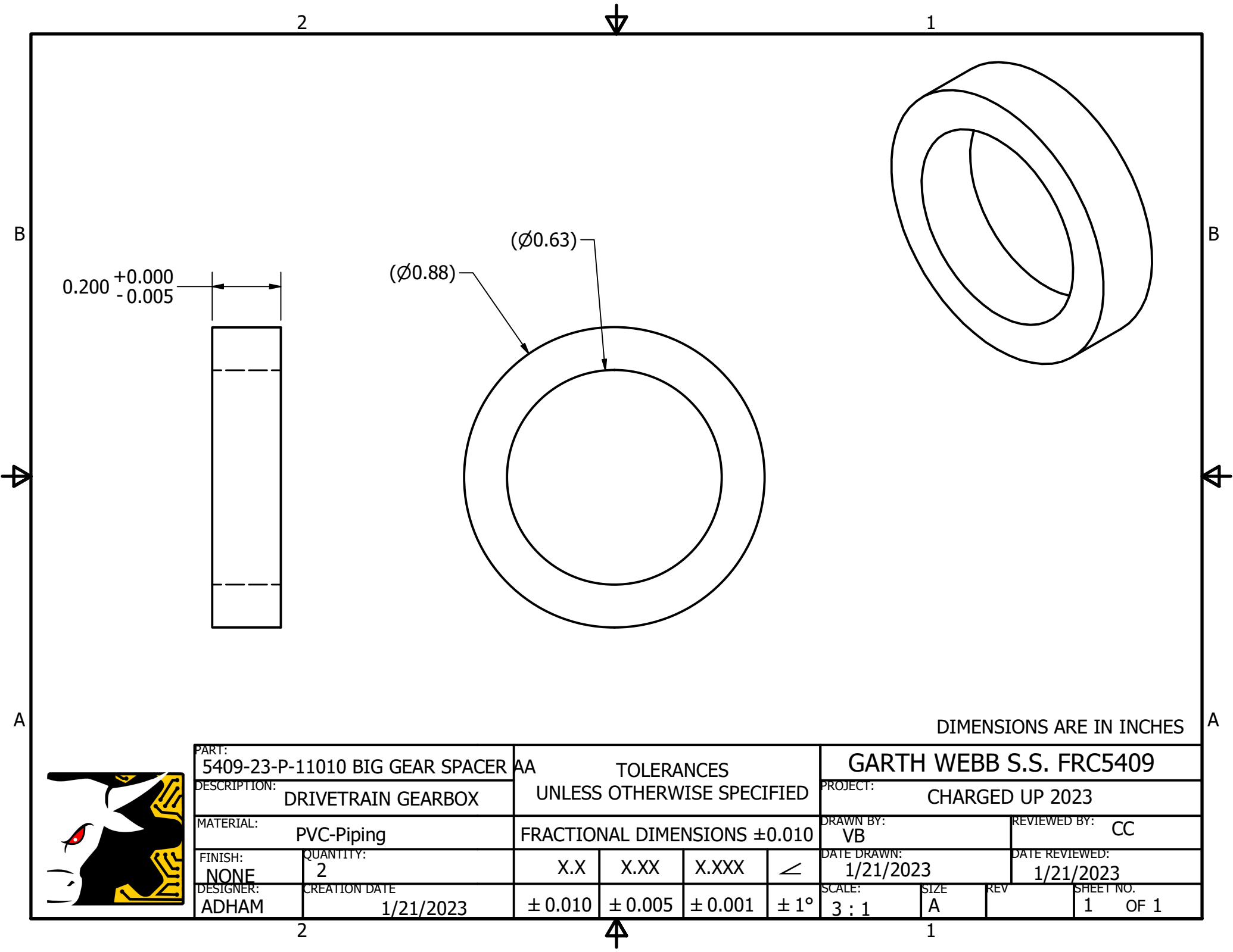
PART: 5409-23-P-11008 RAIL SIDE PLATE AA		TOLERANCES UNLESS OTHERWISE SPECIFIED				GARTH WEBB S.S. FRC5409			
DESCRIPTION: DRIVETRAIN GEARBOX		FRACTIONAL DIMENSIONS ±0.010				PROJECT: CHARGED UP 2023		DRAWN BY: AA	
MATERIAL: Aluminum 6061		DATE DRAWN: 1/21/2023				REVIEWED BY: CC		DATE REVIEWED: 1/21/2023	
FINISH: NONE		SCALE: 1 : 1				SIZE: A		SHEET NO. 1 OF 1	
DESIGNER: ADHAM		CREATION DATE 1/21/2023				REV			
		± 0.010   ± 0.005   ± 0.001   ± 1°							



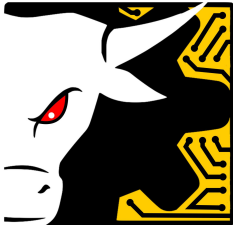
DIMENSIONS ARE IN INCHES



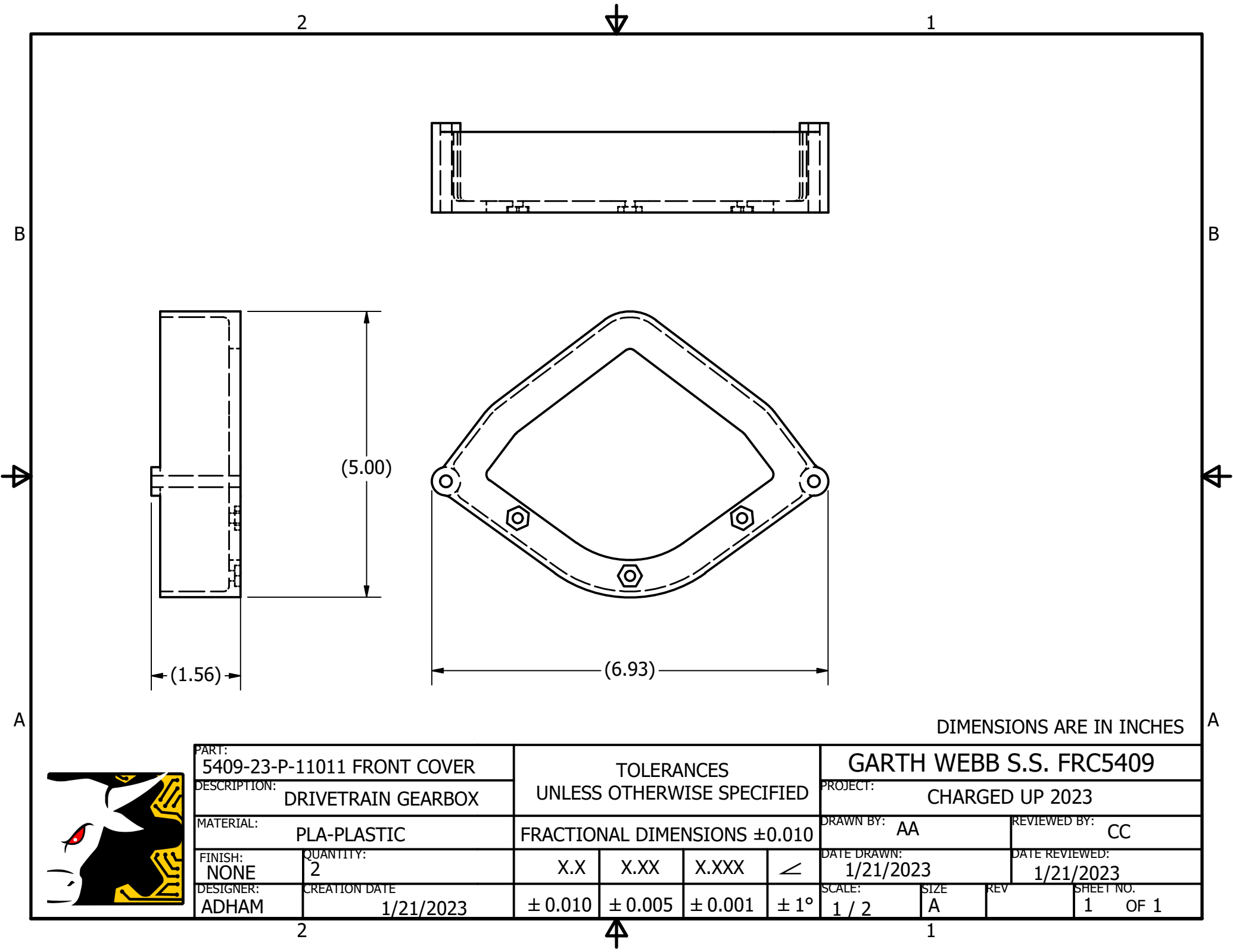
PART: 5409-23-P-11009 SPROCKET BEARING SPACER AA		TOLERANCES UNLESS OTHERWISE SPECIFIED				GARTH WEBB S.S. FRC5409			
DESCRIPTION: DRIVETRAIN GEARBOX						PROJECT: CHARGED UP 2023			
MATERIAL: PVC-Piping		FRACTIONAL DIMENSIONS ±0.010				DRAWN BY: AA		REVIEWED BY: CC	
FINISH: NONE	QUANTITY: 2	X.X	X.XX	X.XXX	∠	DATE DRAWN: 1/21/2023		DATE REVIEWED: 1/21/2023	
DESIGNER: ADHAM	CREATION DATE 1/21/2023	± 0.010	± 0.005	± 0.001	± 1°	SCALE: 2 : 1	SIZE A	REV	SHEET NO. 1 OF 1



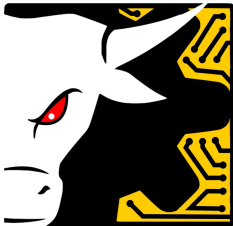
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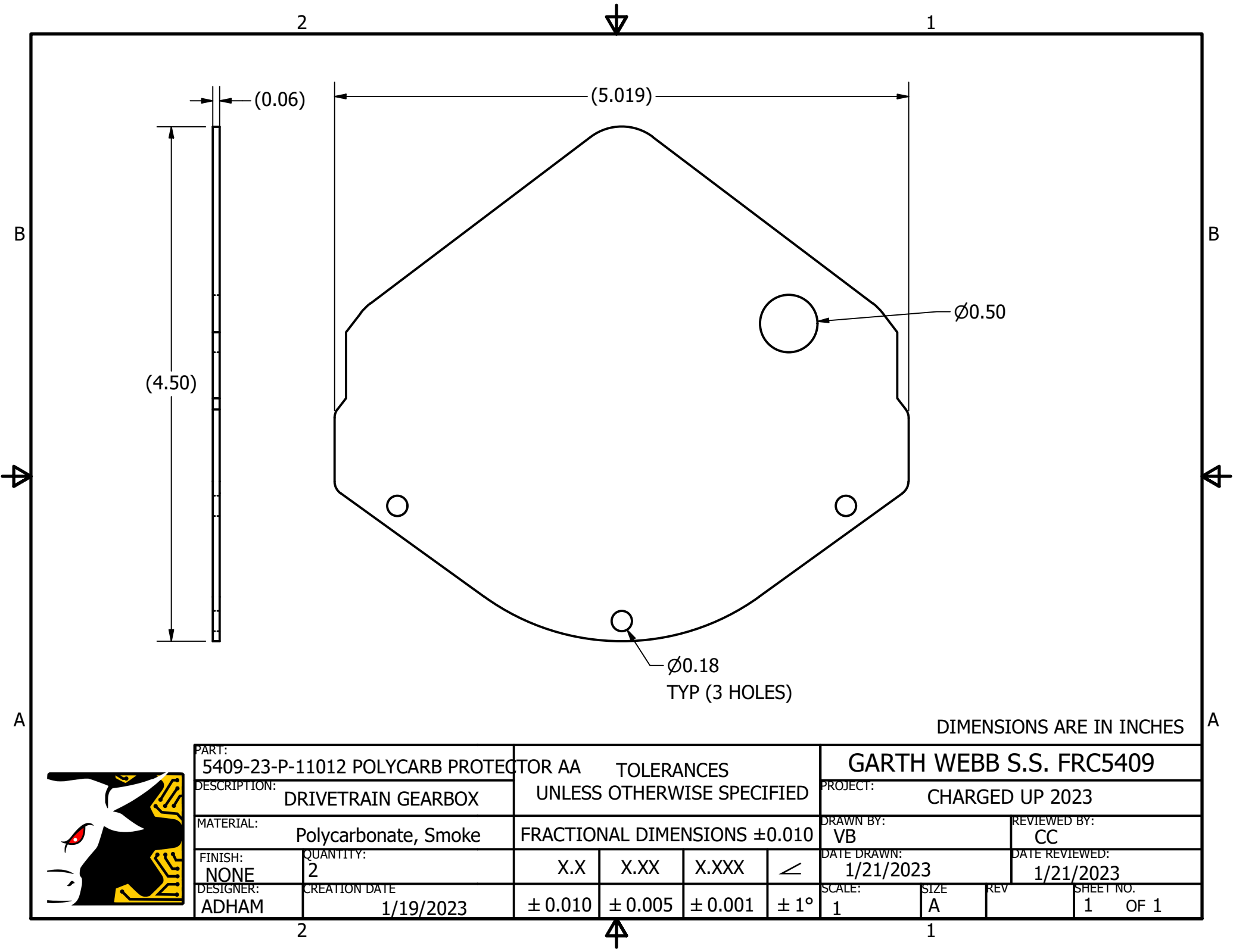
PART: 5409-23-P-11010 BIG GEAR SPACER AA		TOLERANCES UNLESS OTHERWISE SPECIFIED				GARTH WEBB S.S. FRC5409			
DESCRIPTION: DRIVETRAIN GEARBOX		FRACTIONAL DIMENSIONS ±0.010				PROJECT: CHARGED UP 2023			
MATERIAL: PVC-Piping						DRAWN BY: VB		REVIEWED BY: CC	
FINISH: NONE	QUANTITY: 2	X.X	X.XX	X.XXX	∠	DATE DRAWN: 1/21/2023		DATE REVIEWED: 1/21/2023	
DESIGNER: ADHAM	CREATION DATE 1/21/2023	± 0.010	± 0.005	± 0.001	± 1°	SCALE: 3 : 1	SIZE A	REV	SHEET NO. 1 OF 1



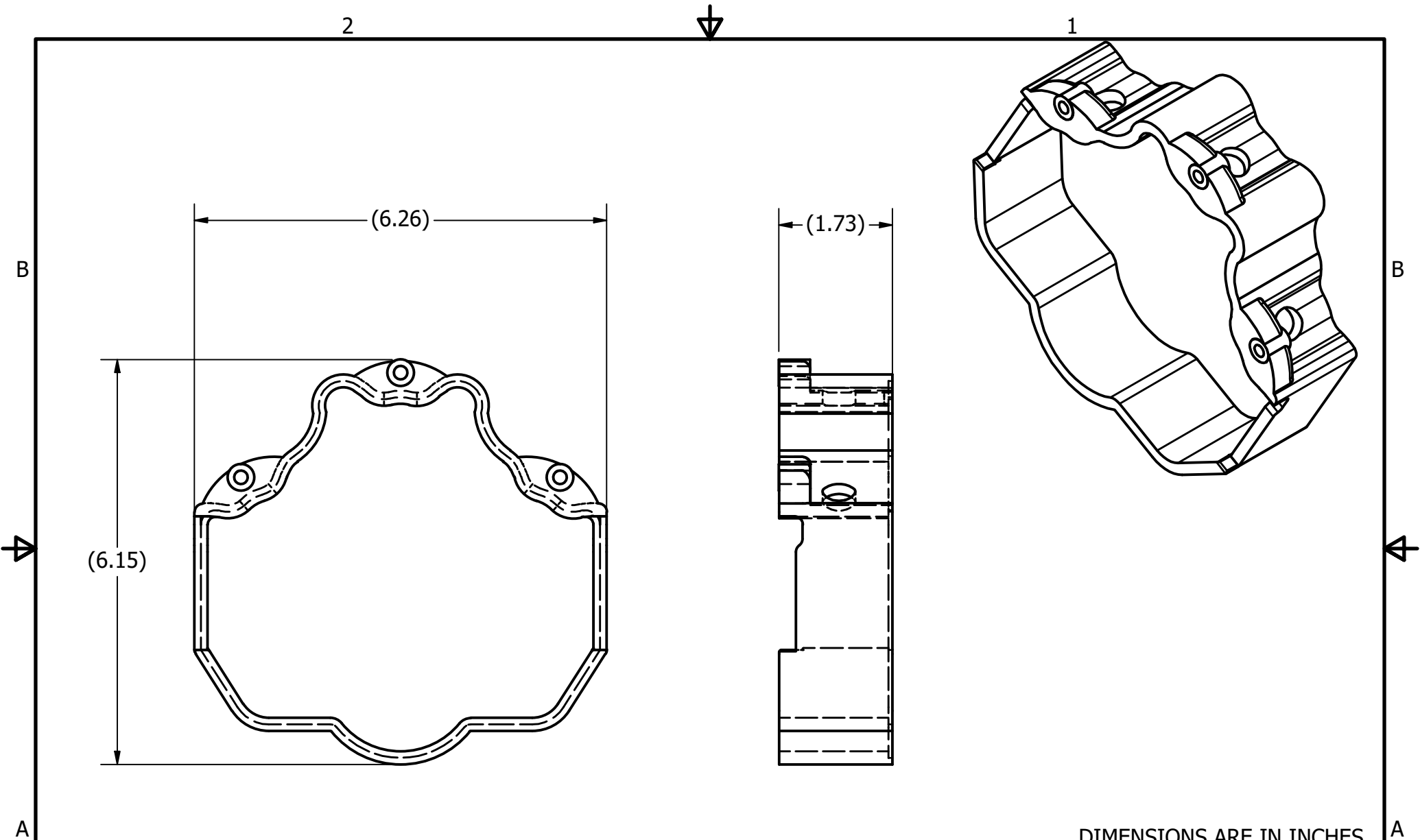
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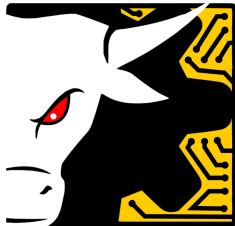
PART: 5409-23-P-11011 FRONT COVER		TOLERANCES UNLESS OTHERWISE SPECIFIED				GARTH WEBB S.S. FRC5409			
DESCRIPTION: DRIVETRAIN GEARBOX						PROJECT: CHARGED UP 2023			
MATERIAL: PLA-PLASTIC		FRACTIONAL DIMENSIONS ±0.010				DRAWN BY: AA		REVIEWED BY: CC	
FINISH: NONE	QUANTITY: 2	X.X	X.XX	X.XXX	∠	DATE DRAWN: 1/21/2023		DATE REVIEWED: 1/21/2023	
DESIGNER: ADHAM	CREATION DATE 1/21/2023	± 0.010	± 0.005	± 0.001	± 1°	SCALE: 1 / 2	SIZE A	REV	SHEET NO. 1 OF 1



PART: 5409-23-P-11012 POLYCARB PROTECTOR AA		TOLERANCES UNLESS OTHERWISE SPECIFIED				GARTH WEBB S.S. FRC5409			
DESCRIPTION: DRIVETRAIN GEARBOX						PROJECT: CHARGED UP 2023			
MATERIAL: Polycarbonate, Smoke		FRACTIONAL DIMENSIONS $\pm 0.010$				DRAWN BY: VB		REVIEWED BY: CC	
FINISH: NONE	QUANTITY: 2	X.X	X.XX	X.XXX	$\angle$	DATE DRAWN: 1/21/2023		DATE REVIEWED: 1/21/2023	
DESIGNER: ADHAM	CREATION DATE 1/19/2023	$\pm 0.010$	$\pm 0.005$	$\pm 0.001$	$\pm 1^\circ$	SCALE: 1	SIZE A	REV	SHEET NO. 1 OF 1

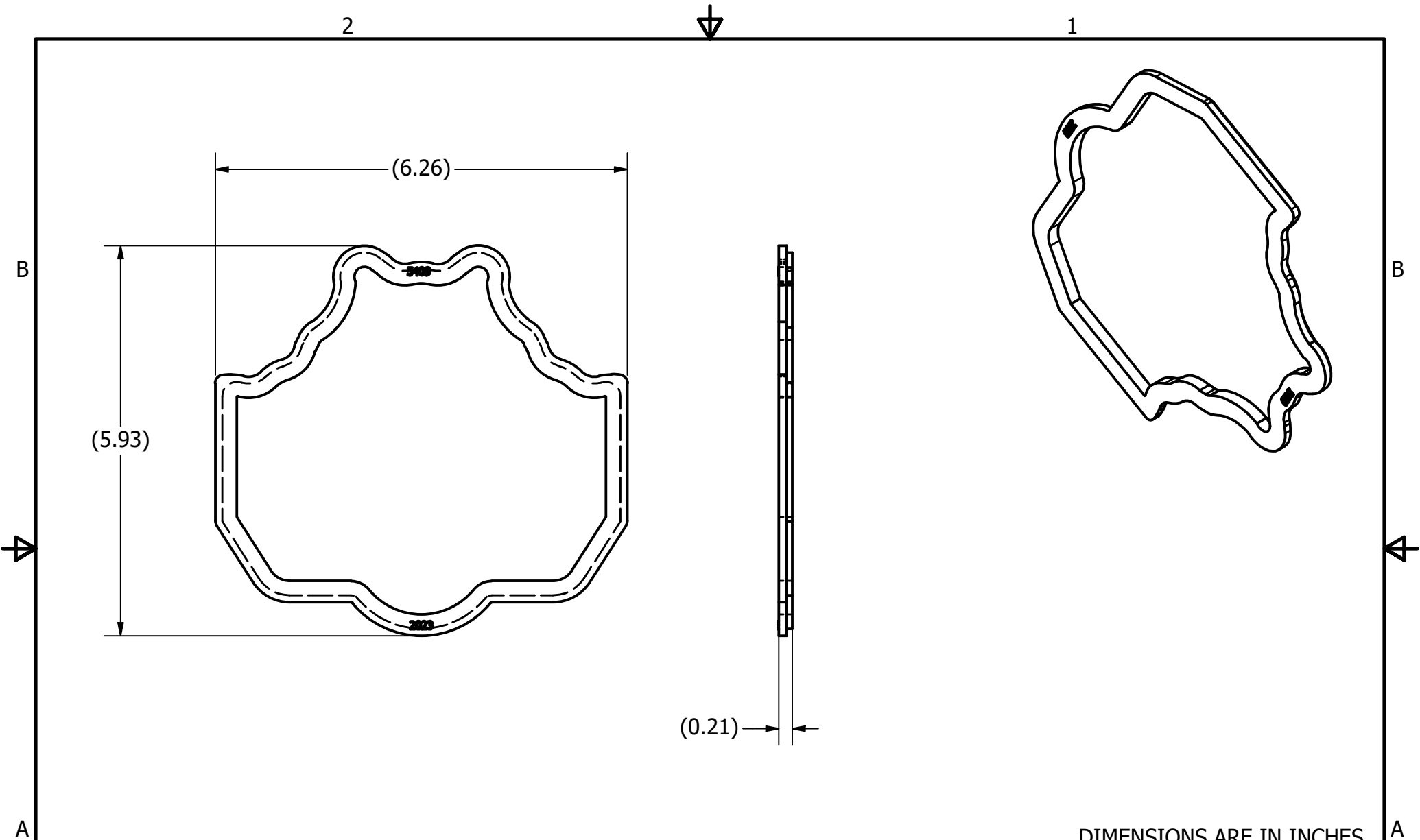


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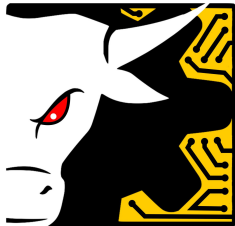


PART: 5409-23-11014 GEAR PROTECTOR		TOLERANCES UNLESS OTHERWISE SPECIFIED				GARTH WEBB S.S. FRC5409			
DESCRIPTION: DRIVTRAIN GEARBOX						PROJECT: CHARGED UP 2023			
MATERIAL: PLA PLASTIC		FRACTIONAL DIMENSIONS ±0.010				DRAWN BY: AA		REVIEWED BY:	
FINISH: NONE	QUANTITY: 2	X.X	X.XX	X.XXX	∠	DATE DRAWN: 2/1/2023		DATE REVIEWED: 2/1/2023	
DESIGNER: 1ABDELRAHADH	CREATION DATE 2/1/2023	± 0.010	± 0.005	± 0.001	± 1°	SCALE: 1 / 2	SIZE A	REV A	SHEET NO. 1 OF 1

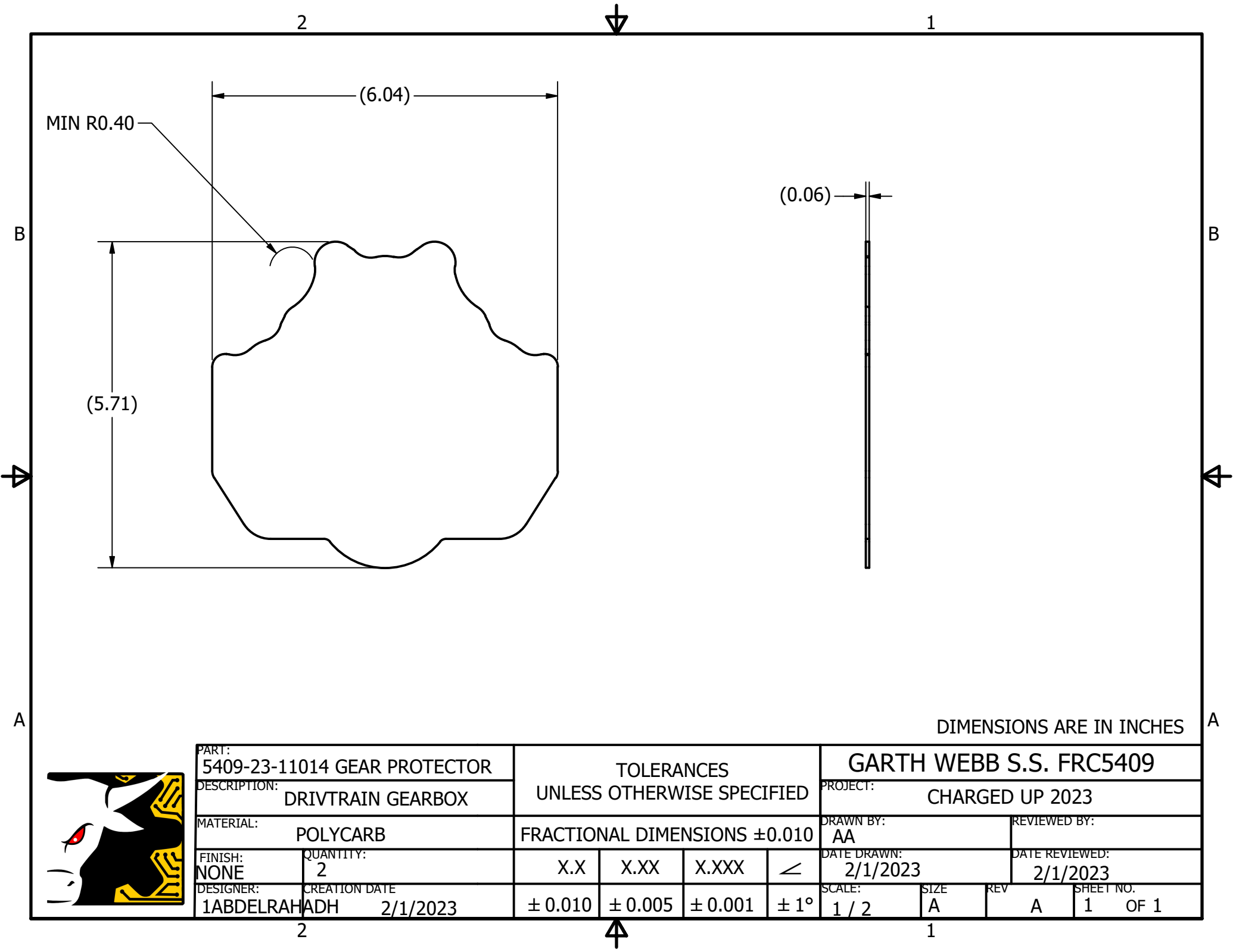




DIMENSIONS ARE IN INCHES



PART: 5409-23-11019 CUP FOR GEARS		TOLERANCES UNLESS OTHERWISE SPECIFIED				GARTH WEBB S.S. FRC5409			
DESCRIPTION: DRIVTRAIN GEARBOX						PROJECT: CHARGED UP 2023			
MATERIAL: PLA PLASTIC		FRACTIONAL DIMENSIONS ±0.010				DRAWN BY: AA		REVIEWED BY:	
FINISH: NONE	QUANTITY: 2	X.X	X.XX	X.XXX	∠	DATE DRAWN: 2/1/2023		DATE REVIEWED: 2/1/2023	
DESIGNER: douglast	CREATION DATE 2/1/2023	± 0.010	± 0.005	± 0.001	± 1°	SCALE: 1 / 2	SIZE A	REV A	SHEET NO. 1 OF 1



DIMENSIONS ARE IN INCHES



PART: 5409-23-11014 GEAR PROTECTOR		TOLERANCES UNLESS OTHERWISE SPECIFIED				GARTH WEBB S.S. FRC5409			
DESCRIPTION: DRIVTRAIN GEARBOX						PROJECT: CHARGED UP 2023			
MATERIAL: POLYCARB		FRACTIONAL DIMENSIONS ±0.010				DRAWN BY: AA		REVIEWED BY:	
FINISH: NONE	QUANTITY: 2	X.X	X.XX	X.XXX	∠	DATE DRAWN: 2/1/2023		DATE REVIEWED: 2/1/2023	
DESIGNER: 1ABDELRAHADH	CREATION DATE 2/1/2023	± 0.010	± 0.005	± 0.001	± 1°	SCALE: 1 / 2	SIZE A	REV A	SHEET NO. 1 OF 1