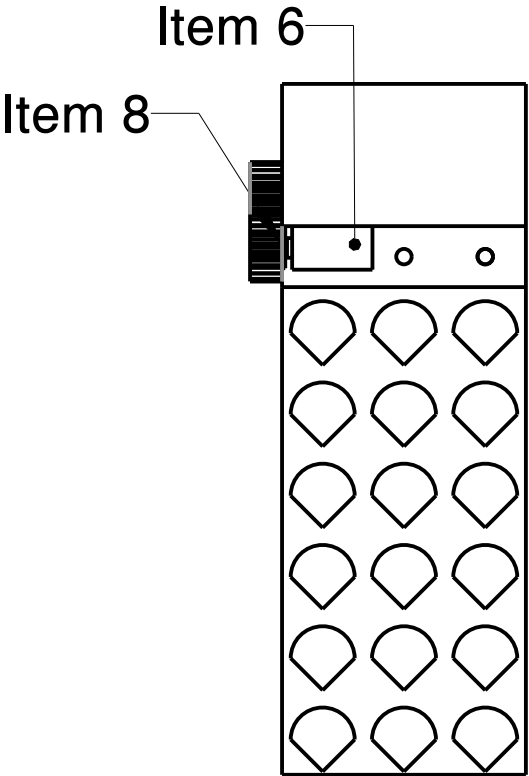
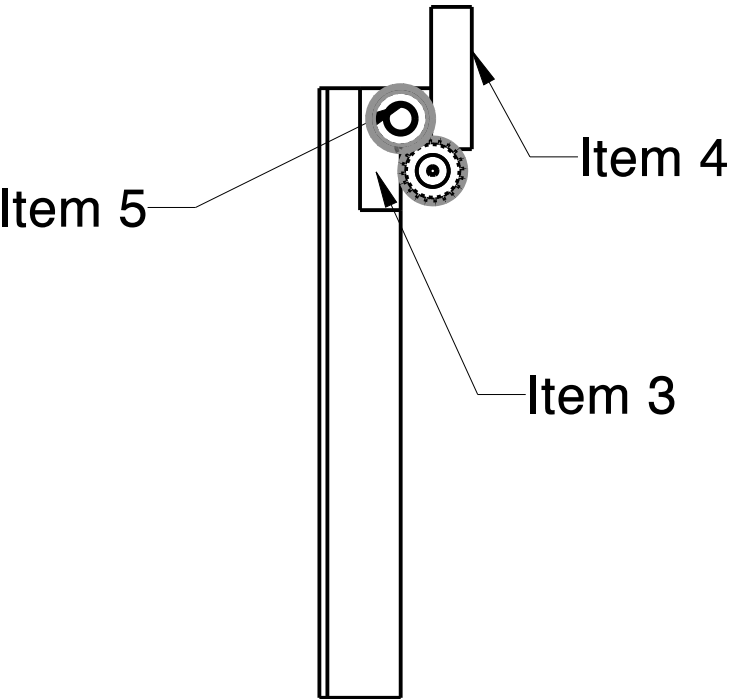
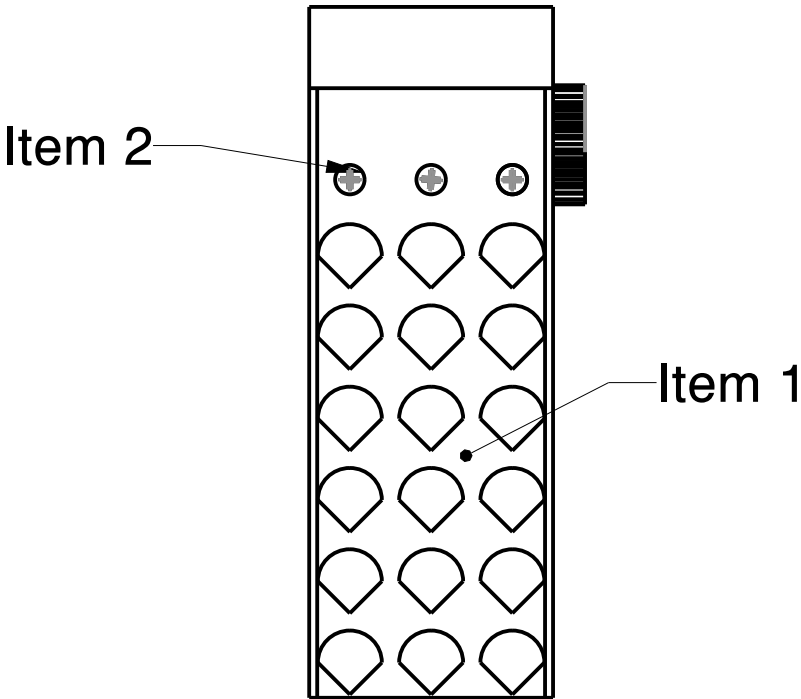
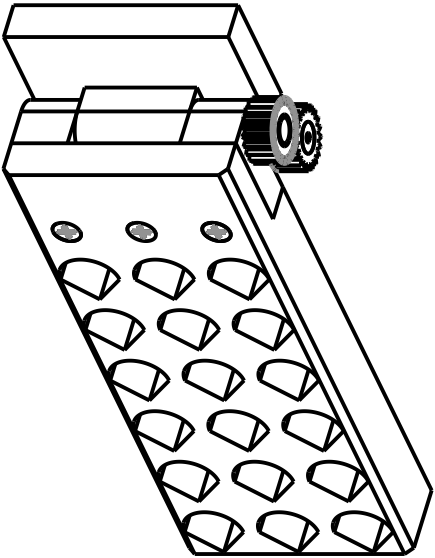
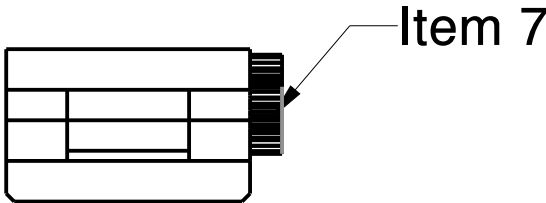
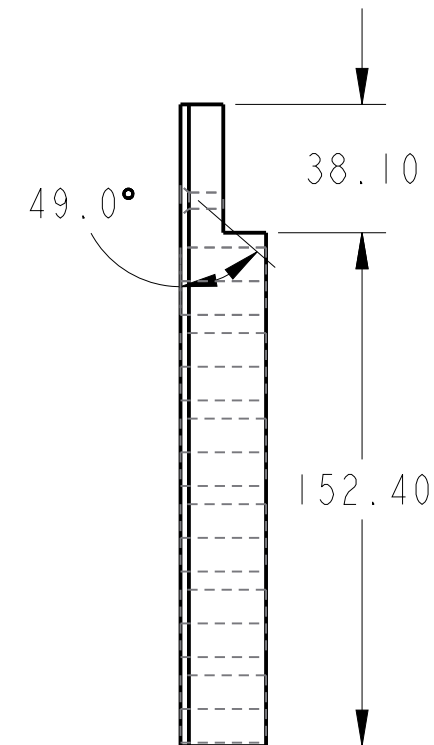
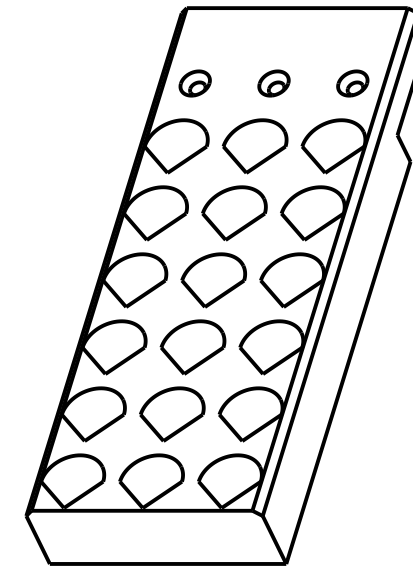
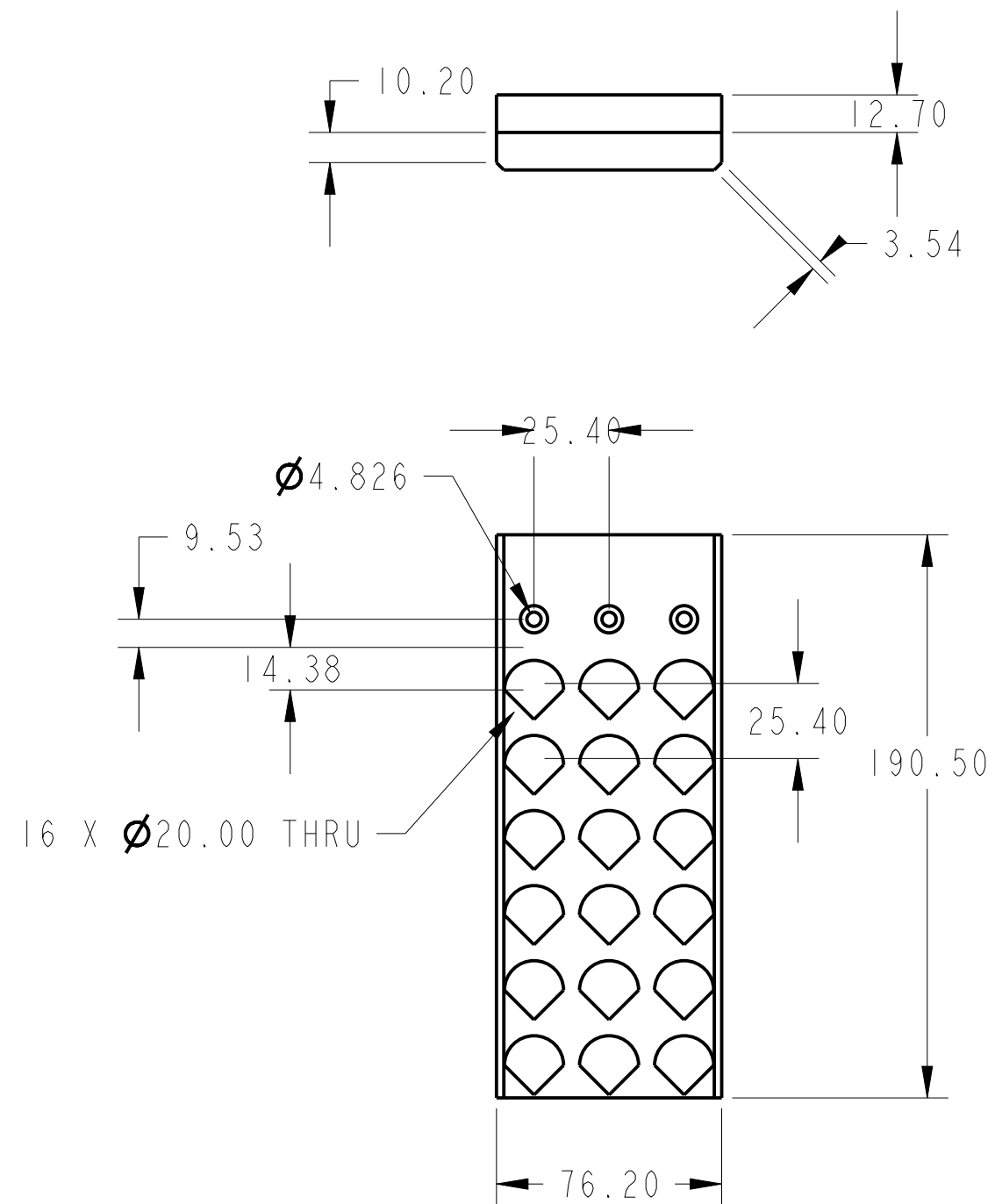


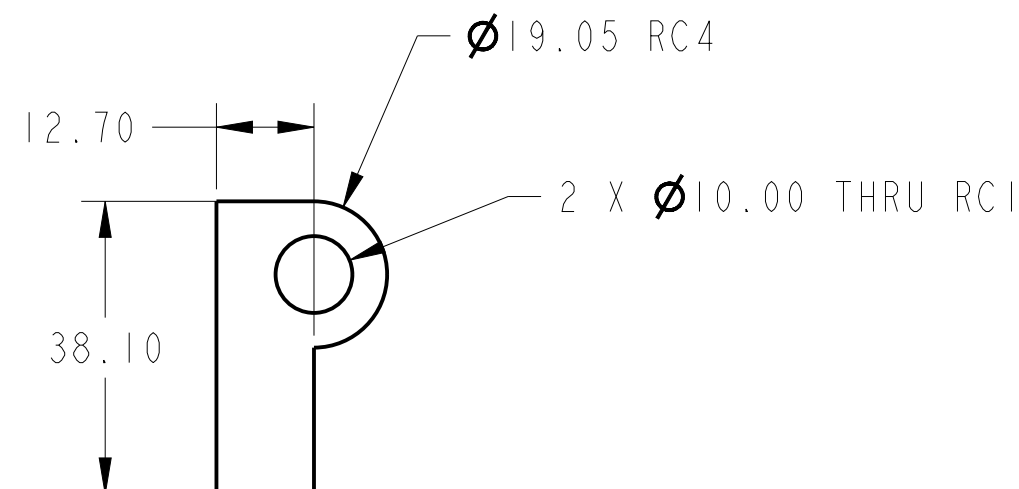
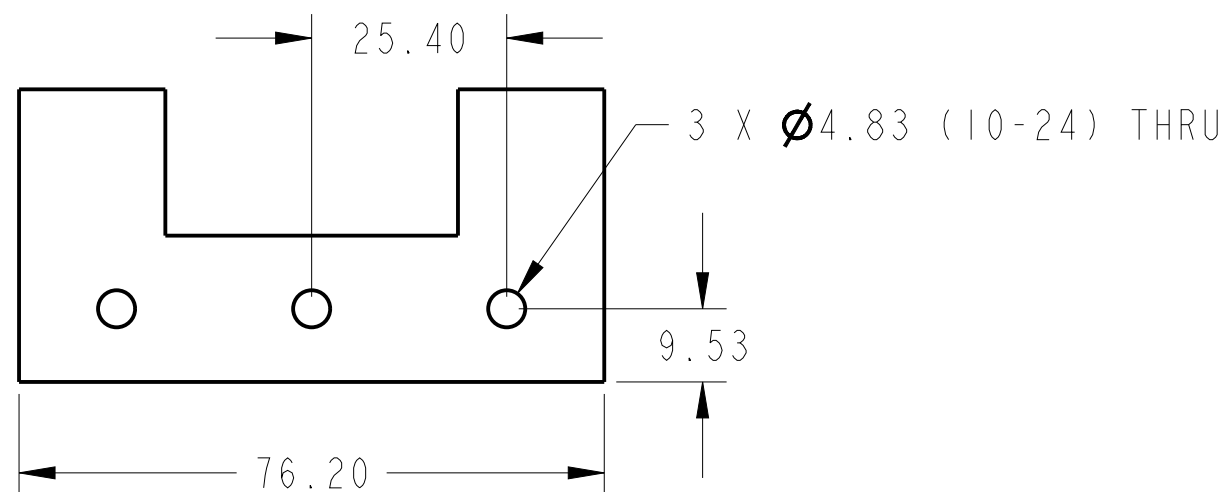
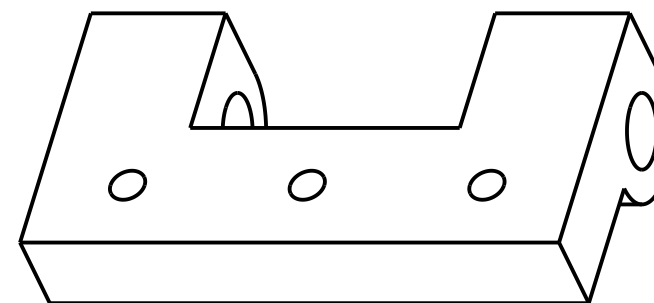
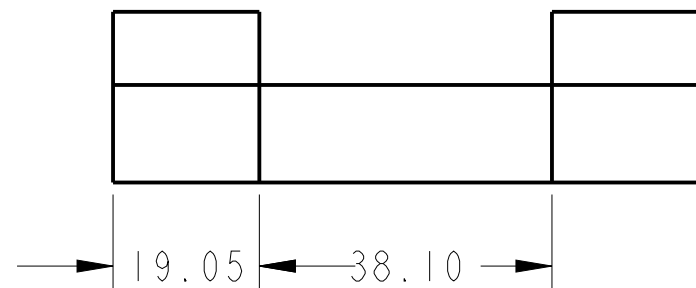
ITEM	NAME	QTY
1	Air Brake	1
2	10-24 x 1 in	3
3	Hinge Brake-Side	1
4	Hinge Mount-Side	1
5	Hinge Rod	1
6	Electric Motor	1
7	20 Tooth Gear	2
8	Gear Adapter	1



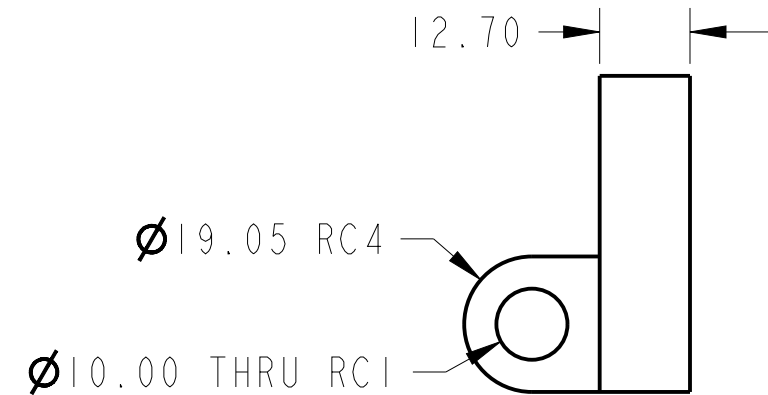
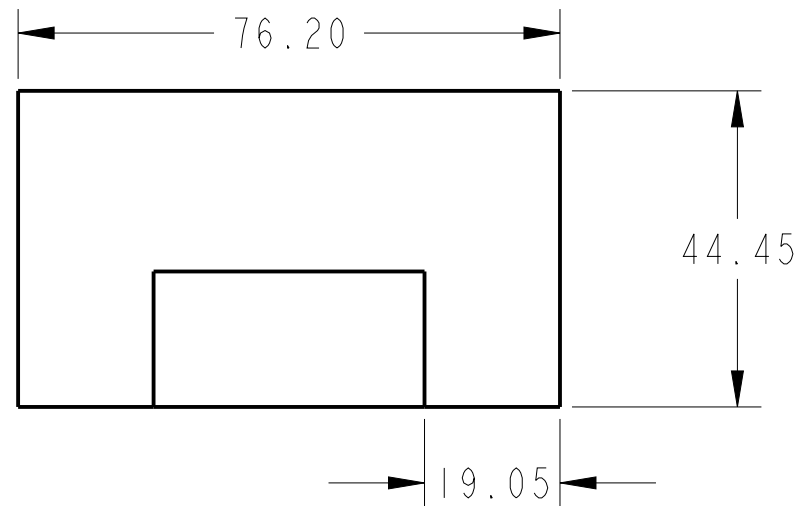
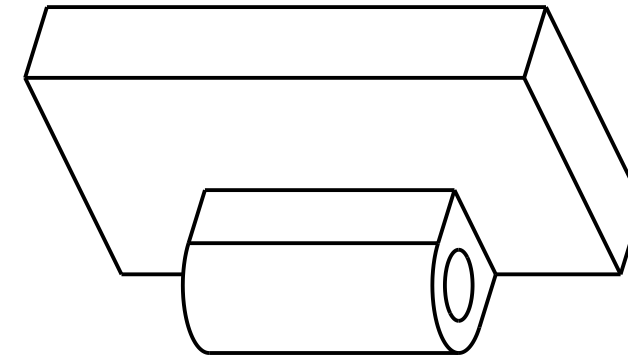
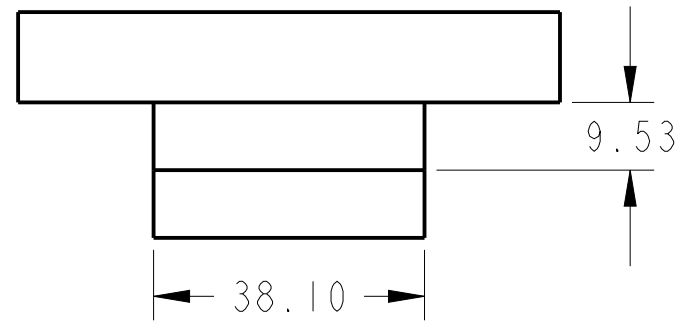
TOLERANCES		WORKING PROCESS		DATE		PART NAME	
DEC PLACES	TOLS	Various		12/15/2020			
ONE X.X	± 0.02	MATERIAL		HEAT TREATMENT		Assembly	
TWO X.XX	± 0.01	Stainless Steel and PLA +				PART CODE	DIVISION
THREE X.XXX	± 0.005	SURFACE TREATMENT		HARDNESS		FULL	SHEET 1 OF 1
ANGLES	± 1/2°	APPROVED	DESIGNER	SCALE	OUT OF SCALE	 UNC CHARLOTTE	
			Sean McClanahan	0.017	YES : NO		
			CHECKED	UNIT	GT CODE		
				mm			



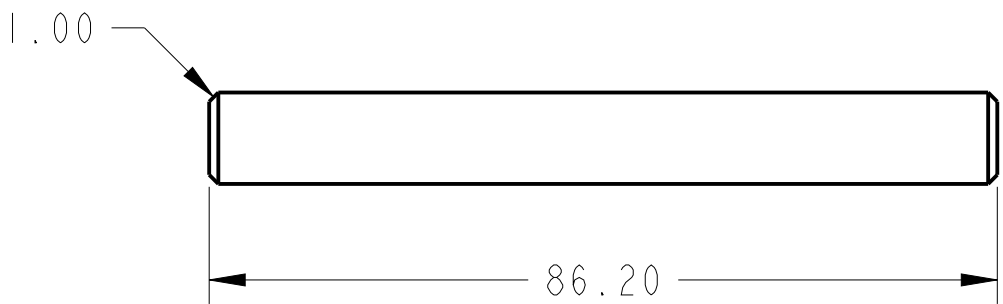
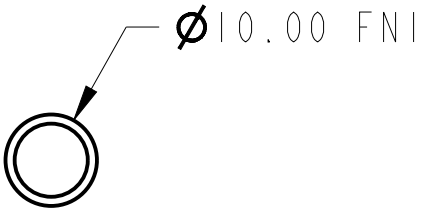
TOLERANCES		WORKING PROCESS		DATE		PART NAME	
DEC PLACES	TOLS	3D Printing		12/15/2020			
ONE X.X	± 0.02	MATERIAL		HEAT TREATMENT		Tear-Drop Brake	
TWO X.XX	± 0.01	PLA +				PART CODE	DIVISION
THREE X.XXX	± 0.005	SURFACE TREATMENT		HARDNESS		1	SHEET 1 OF 1
ANGLES	± 1/2°	APPROVED	DESIGNER	SCALE	OUT OF SCALE	 UNC CHARLOTTE	
			Sean McClanahan	0.018	YES : NO		
			CHECKED	UNIT	GT CODE		
				mm			



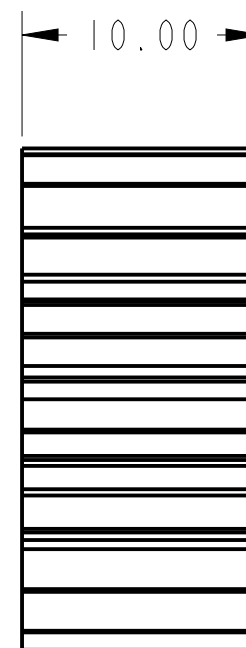
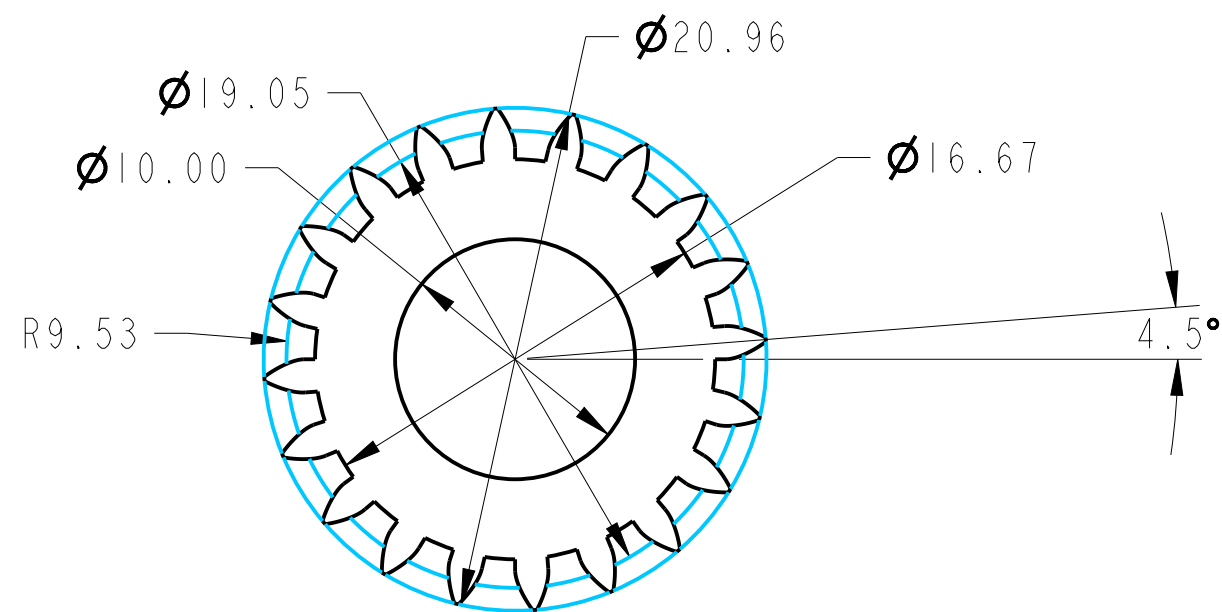
TOLERANCES		WORKING PROCESS		DATE		PART NAME	
DEC PLACES	TOLS	3D Printing		12/15/2020			
ONE X.X	± 0.02	MATERIAL		HEAT TREATMENT		Hinge Brake-Side	
TWO X.XX	± 0.01	PLA +				PART CODE	DIVISION
THREE X.XXX	± 0.005	SURFACE TREATMENT		HARDNESS		3	SHEET 1 OF 1
ANGLES	± 1/2°	APPROVED	DESIGNER	SCALE	OUT OF SCALE	 UNC CHARLOTTE	
			Sean McClanahan	0.040	YES : NO		
			CHECKED	UNIT	GT CODE		
				mm			



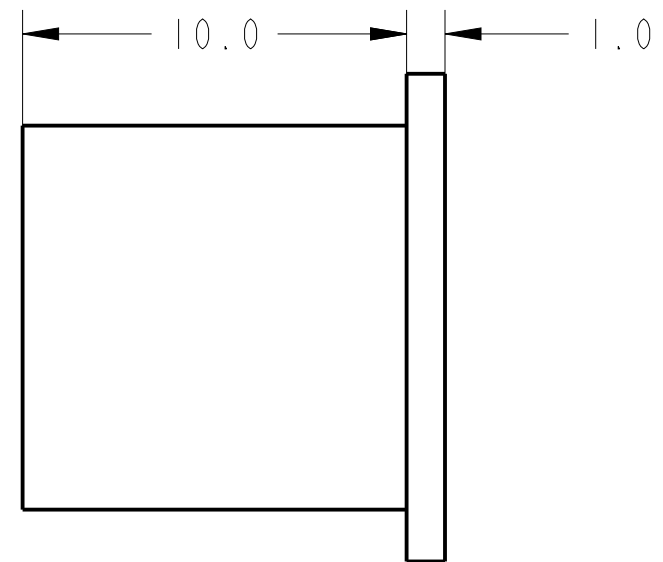
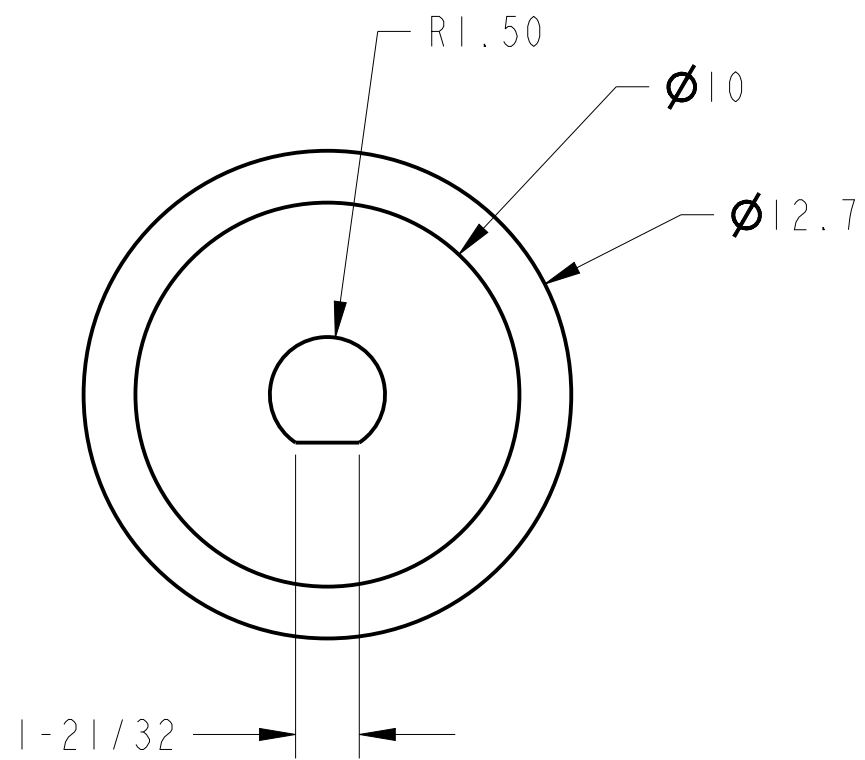
TOLERANCES		WORKING PROCESS		DATE		PART NAME	
DEC PLACES	TOLS	3D Printing		12/15/2020			
ONE X.X	± 0.02	MATERIAL		HEAT TREATMENT		Hinge Mount-Side	
TWO X.XX	± 0.01	PLA +				PART CODE	DIVISION
THREE X.XXX	± 0.005	SURFACE TREATMENT		HARDNESS		4	SHEET 1 OF 1
ANGLES	$\pm 1/2^\circ$	APPROVED	DESIGNER	SCALE	OUT OF SCALE	 UNC CHARLOTTE	
			Sean McClanahan	0.037	YES : NO		
			CHECKED	UNIT	GT CODE		
				mm			



TOLERANCES		WORKING PROCESS		DATE		PART NAME	
DEC PLACES	TOLS	Lathe		12/15/2020			
ONE X.X	± 0.02	MATERIAL		HEAT TREATMENT		Hinge Rod	
		Stainless Steel					
		SURFACE TREATMENT		HARDNESS		PART CODE	DIVISION
TWO X.XX	± 0.01					5	SHEET 1 OF 1
		APPROVED	DESIGNER	SCALE	OUT OF SCALE	 UNC CHARLOTTE	
THREE X.XXX	±0.005		Sean McClanahan	0.048	YES : NO		
			CHECKED	UNIT	GT CODE		
ANGLES	±1/2°			mm			



TOLERANCES		WORKING PROCESS		DATE		PART NAME	
DEC PLACES	TOLS	Machining		12/15/2020			
ONE X.X	± 0.02	MATERIAL		HEAT TREATMENT		20 Tooth Gear	
TWO X.XX	± 0.01	Stainless Steel				PART CODE	DIVISION
THREE X.XXX	± 0.005	SURFACE TREATMENT		HARDNESS		7	SHEET 1 OF 1
ANGLES	$\pm 1/2^\circ$	APPROVED	DESIGNER	SCALE	OUT OF SCALE	 UNC CHARLOTTE	
			Sean McClanahan	0.125	YES : NO		
			CHECKED	UNIT	GT CODE		
				mm			



TOLERANCES		WORKING PROCESS		DATE		PART NAME	
DEC PLACES	TOLS	3D Printing		12/15/2020			
ONE X.X	± 0.02	MATERIAL		HEAT TREATMENT			
TWO X.XX	± 0.01	PLA +				Gear Adapter	
		SURFACE TREATMENT					
THREE X.XXX	±0.005					PART CODE	DIVISION
						8	SHEET 1 OF 1
						 UNC CHARLOTTE	
APPROVED	DESIGNER	SCALE	OUT OF SCALE				
ANGLES	±1/2°		Sean McClanahan	0.200	YES : NO		
			CHECKED	UNIT	GT CODE		
				mm			