

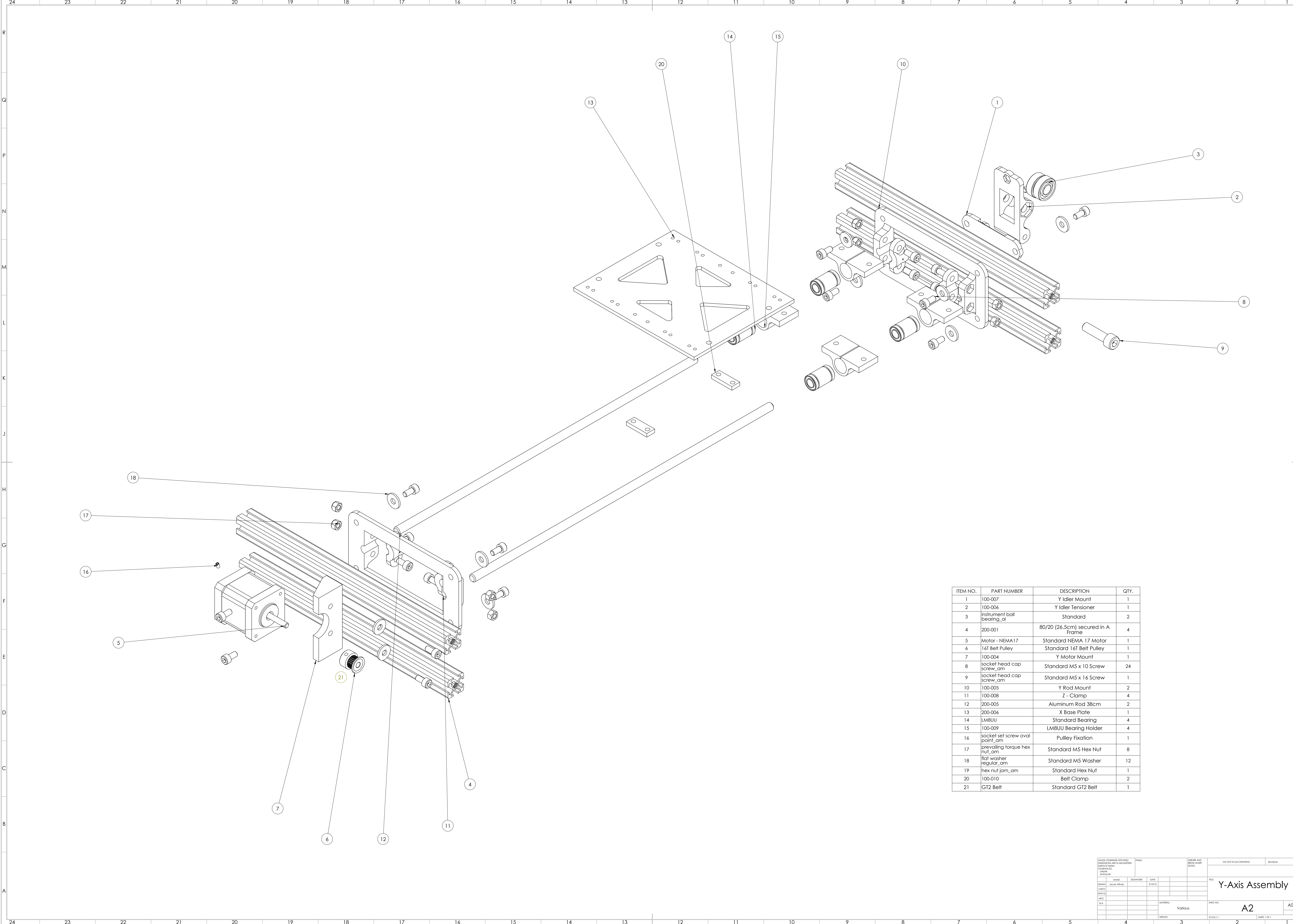
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	100-001	6-Hole Bracket	4
2	200-003	80/20 Extrusion (38cm)	4
3	100-002	L-Bracket	4
4	200-002	80/20 Extrusion (30cm)	4
5	200-001	80/20 Extrusion (26.5cm)	4
6	socket head cap screw_am	Standard M5 x 10 Screw	52
7	100-003	Top Bracket	2
8	200-004	80/20 Extrusion with Holes (38.5cm)	2
9	flat washer regular_am	Standard M5 Washer	48
10	socket button head cap screw_am	Standard M5 x 14Button Head Screw	4

TOLERANCES UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: UNLESS OTHERWISE SPECIFIED				TOLERANCES: UNLESS OTHERWISE SPECIFIED		TOLERANCES: UNLESS OTHERWISE SPECIFIED		TOLERANCES: UNLESS OTHERWISE SPECIFIED	
NAME				SIGNATURE		DATE		DATE	
DRAWN				CHECKED		DATE		DATE	
APPROVED				MATERIAL		VARIANTS		VARIANTS	
G.D.A.				WEIGHT		SCALE		SHEET 1 OF 1	

A Frame Assembly

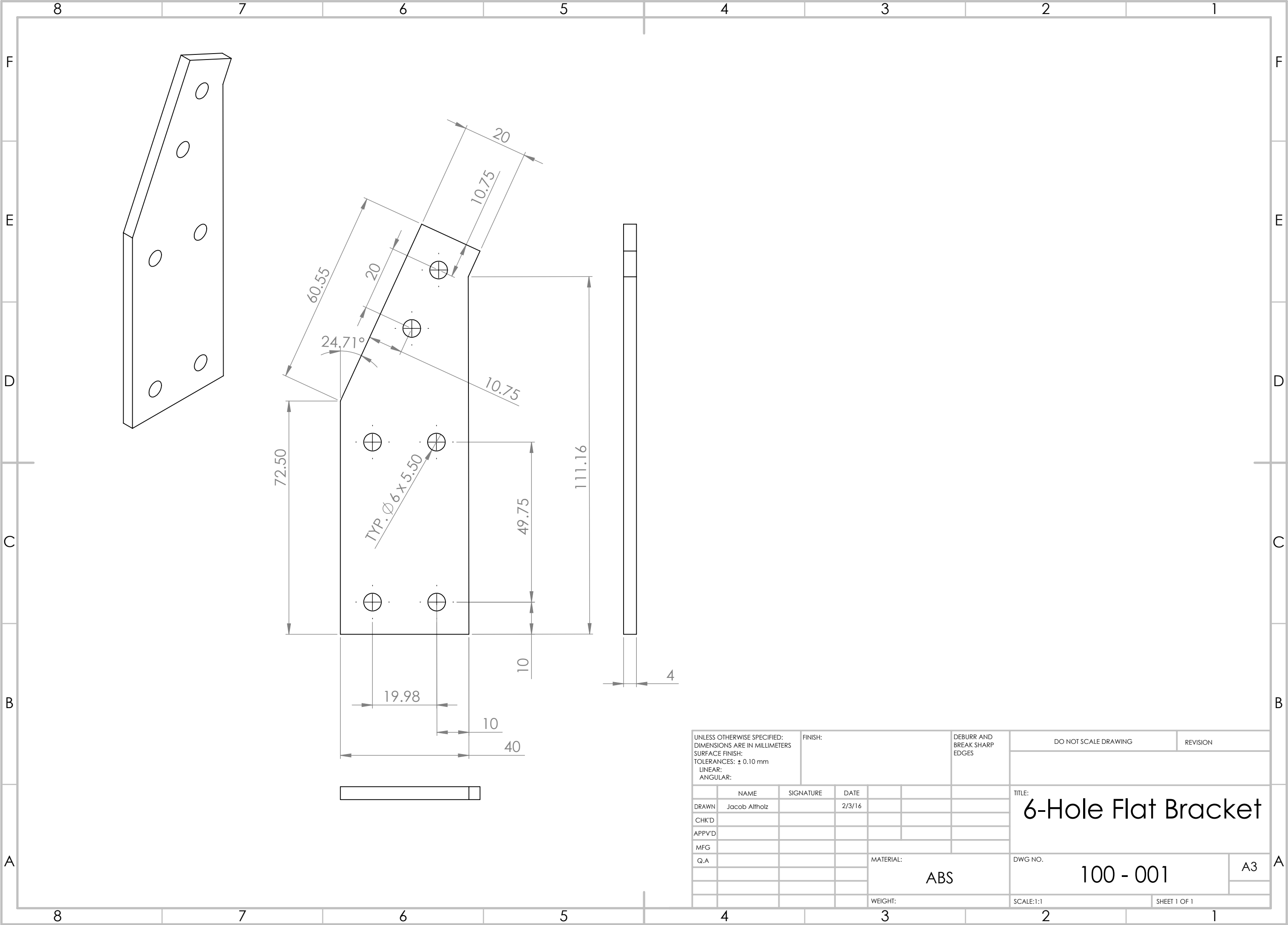
A1 A0



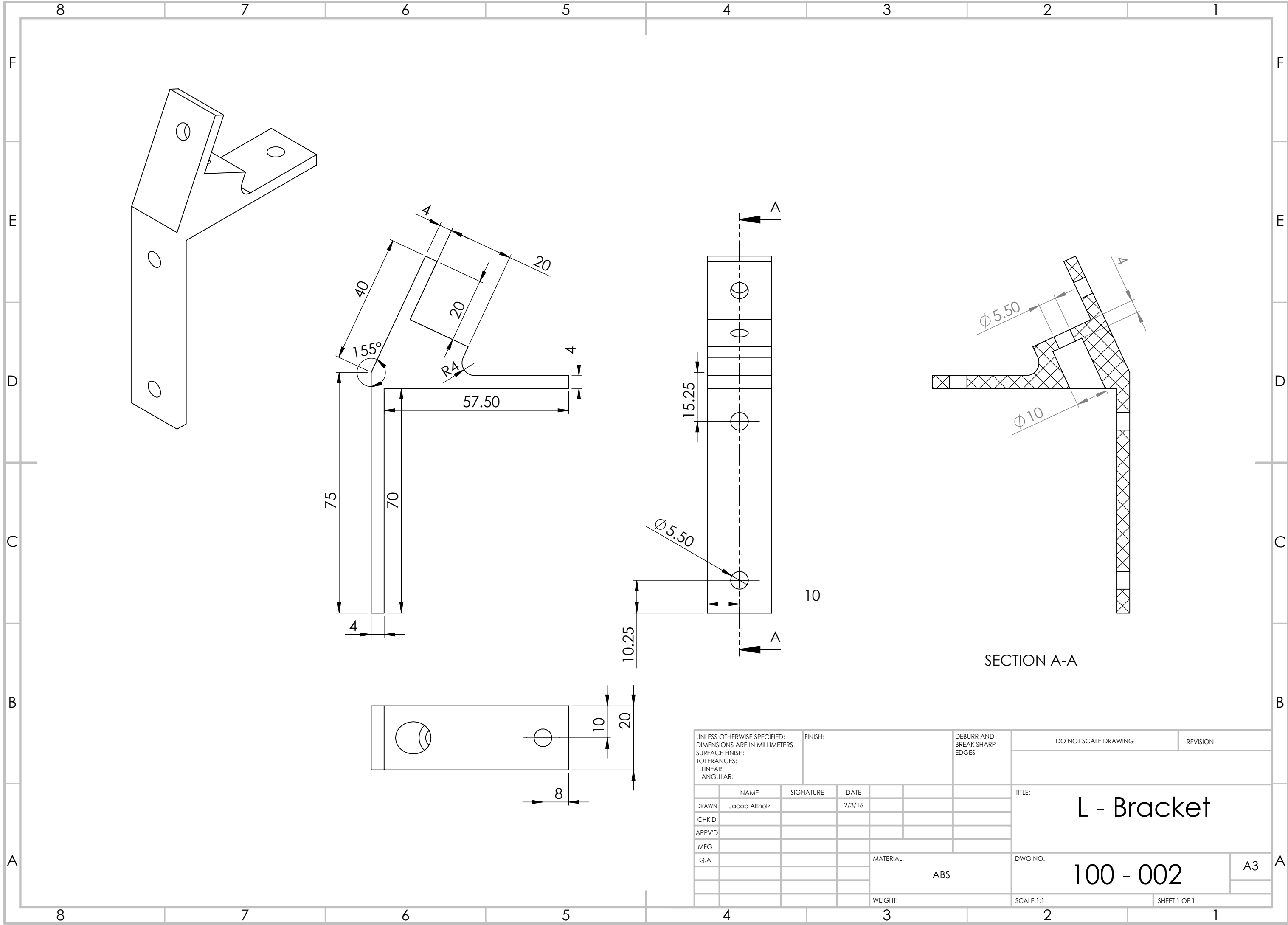


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	100-007	Y Idler Mount	1
2	100-006	Y Idler Tensioner	1
3	instrument ball bearing_al	Standard	2
4	200-001	80/20 (26.5cm) secured in A frame	4
5	Motor - NEMA17	Standard NEMA 17 Motor	1
6	16T Belt Pulley	Standard 16T Belt Pulley	1
7	100-004	Y Motor Mount	1
8	socket head cap screw_am	Standard M5 x 10 Screw	24
9	socket head cap screw_am	Standard M5 x 16 Screw	1
10	100-005	Y Rod Mount	2
11	100-008	Z - Clamp	4
12	200-005	Aluminum Rod 38cm	2
13	200-006	X Base Plate	1
14	LM8UU	Standard Bearing	4
15	100-009	LM8UU Bearing Holder	4
16	socket set screw oval point_am	Pulley Fixation	1
17	prevailing torque hex nut_am	Standard M5 Hex Nut	8
18	flat washer regular_am	Standard M5 Washer	12
19	hex nut jam_am	Standard Hex Nut	1
20	100-010	Belt Clamp	2
21	GT2 Belt	Standard GT2 Belt	1

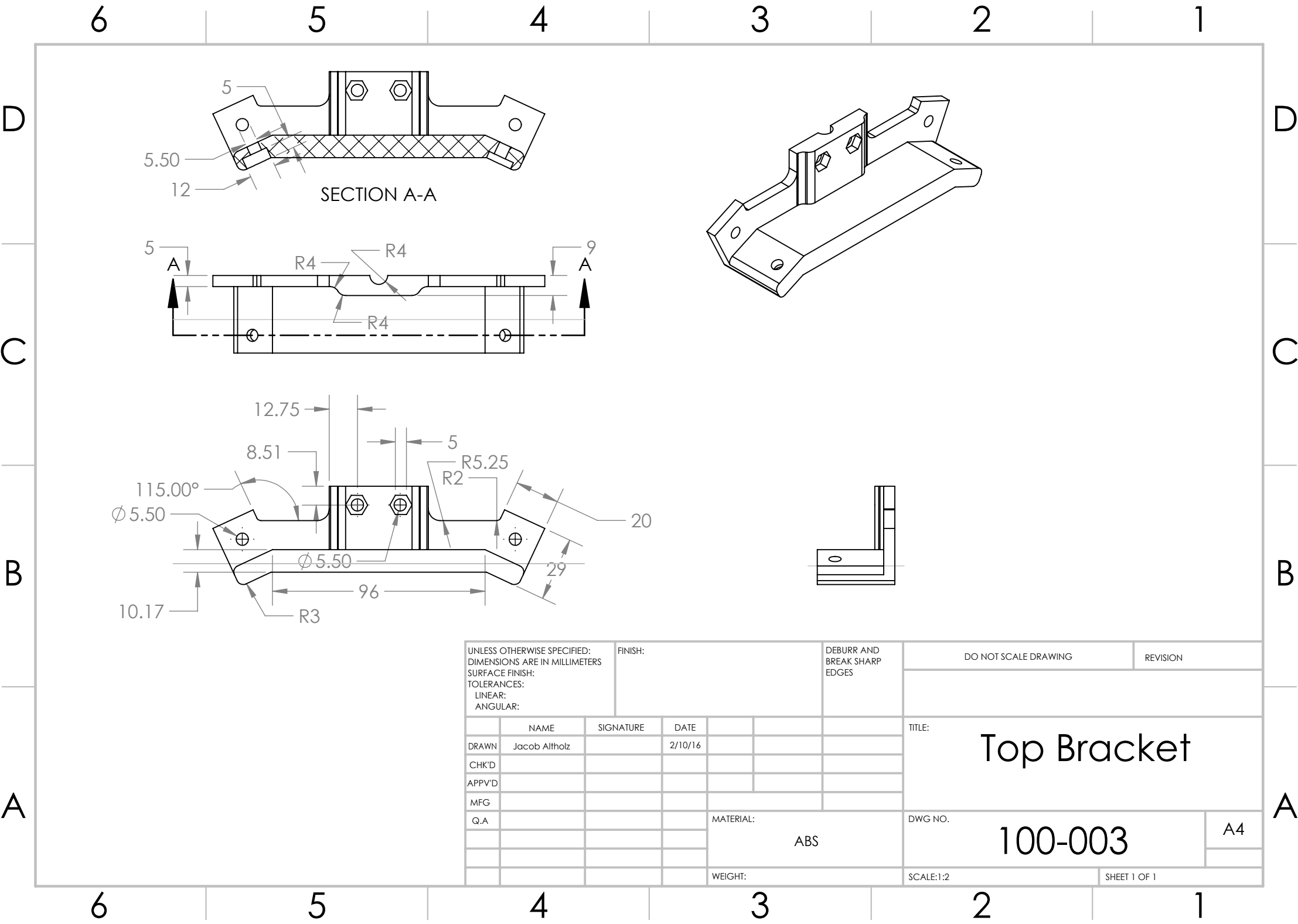
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NAME: _____				SIGNATURE: _____		DATE: _____		FILE: _____		Y-Axis Assembly	
DRAWN: JACOB ABRAHAM				NAME: _____		SIGNATURE: _____		CHWG NO: _____		A2	
CHECKED: _____				NAME: _____		SIGNATURE: _____		SCALE: 1:1		SHEET 1 OF 1	
APPROVED: _____				NAME: _____		SIGNATURE: _____		MATERIAL: Various		A0	
MFG: _____				NAME: _____		SIGNATURE: _____		WEIGHT: _____		_____	
D.A. _____				NAME: _____		SIGNATURE: _____		_____		_____	
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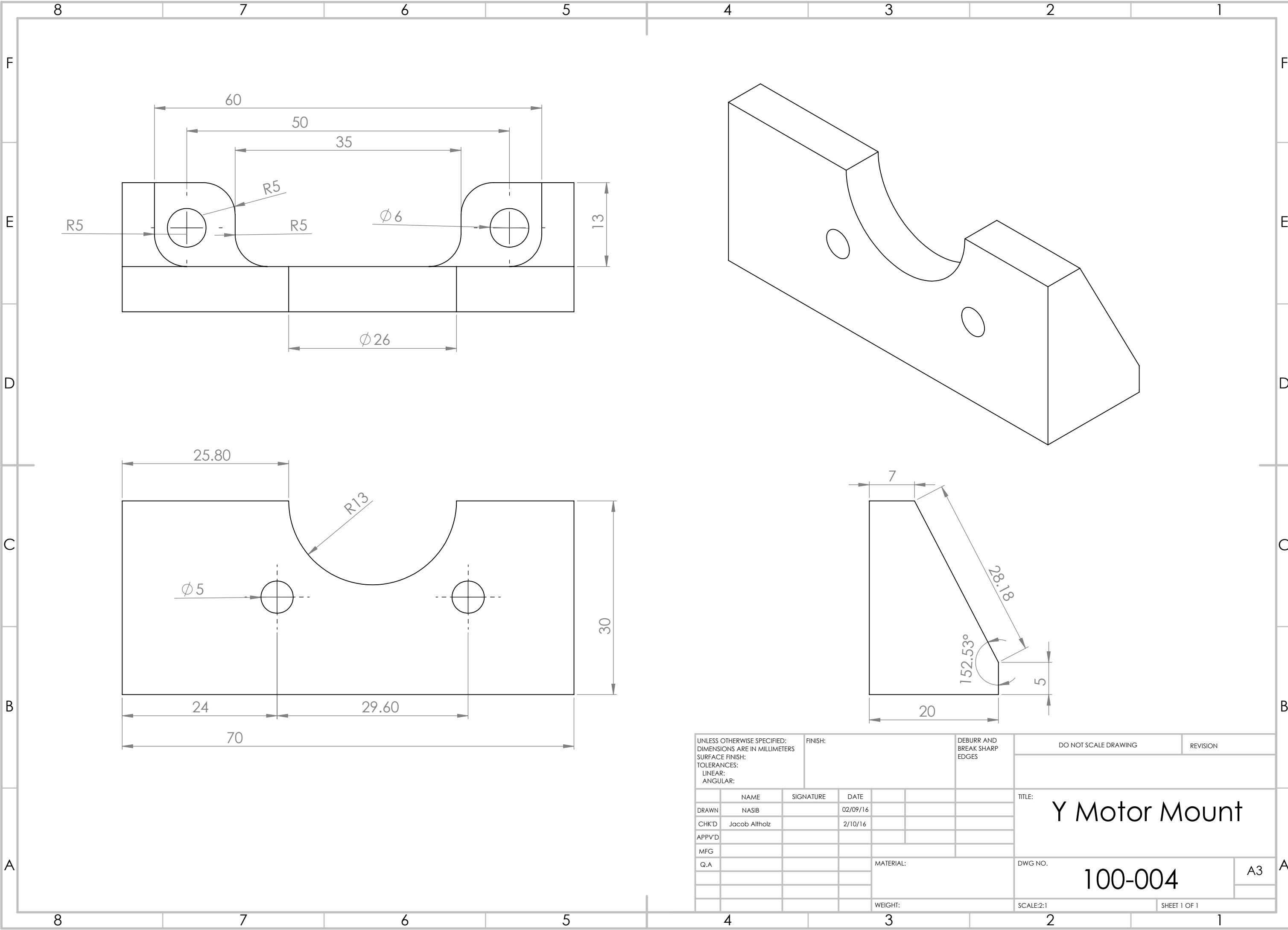


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	NAME		SIGNATURE		DATE				TITLE:		
DRAWN		Jacob Altholz				2/3/16				6-Hole Flat Bracket	
CHK'D											
APPV'D											
MFG											
Q.A											
						MATERIAL:		DWG NO.		A3	
						ABS		100 - 001			
						WEIGHT:		SCALE:1:1		SHEET 1 OF 1	

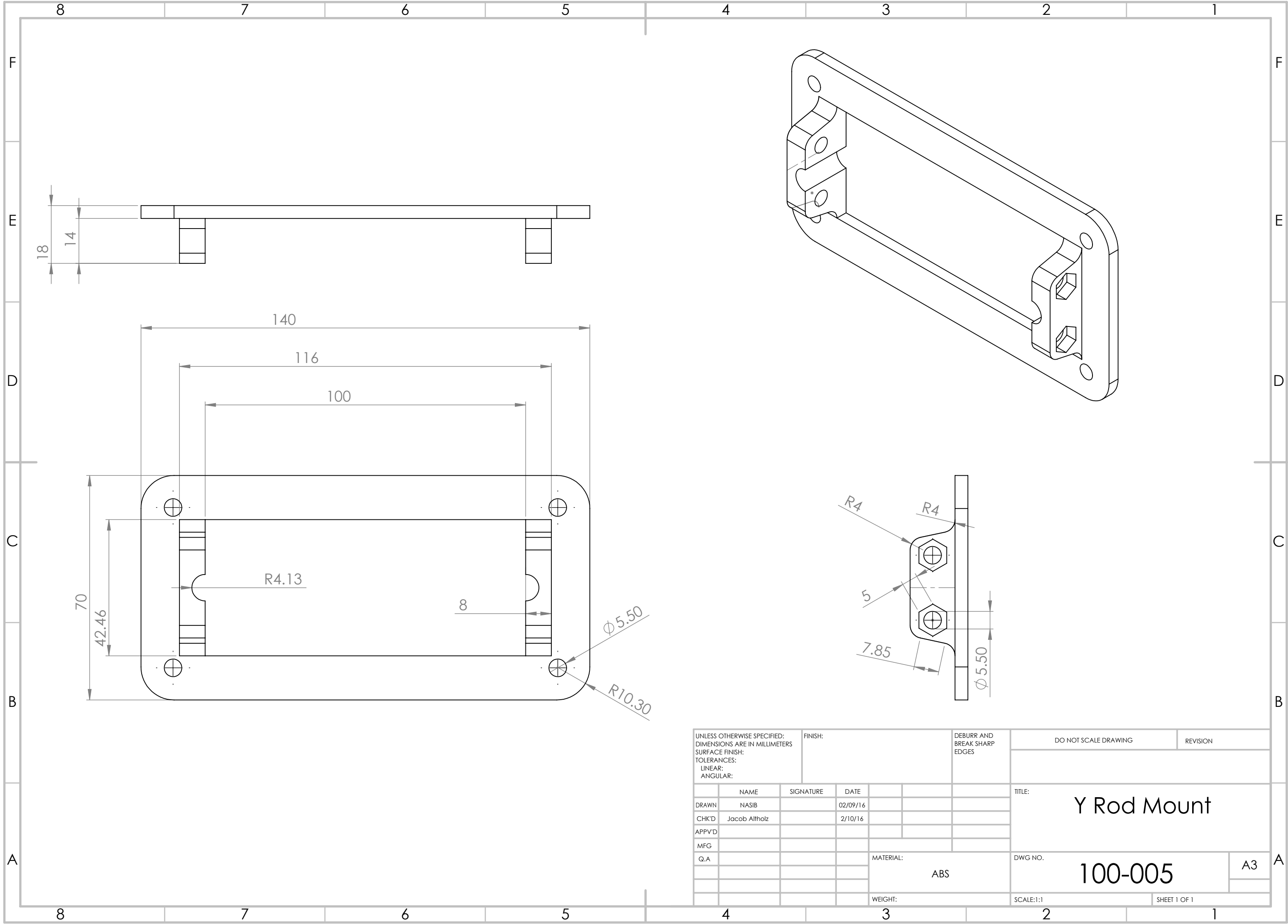


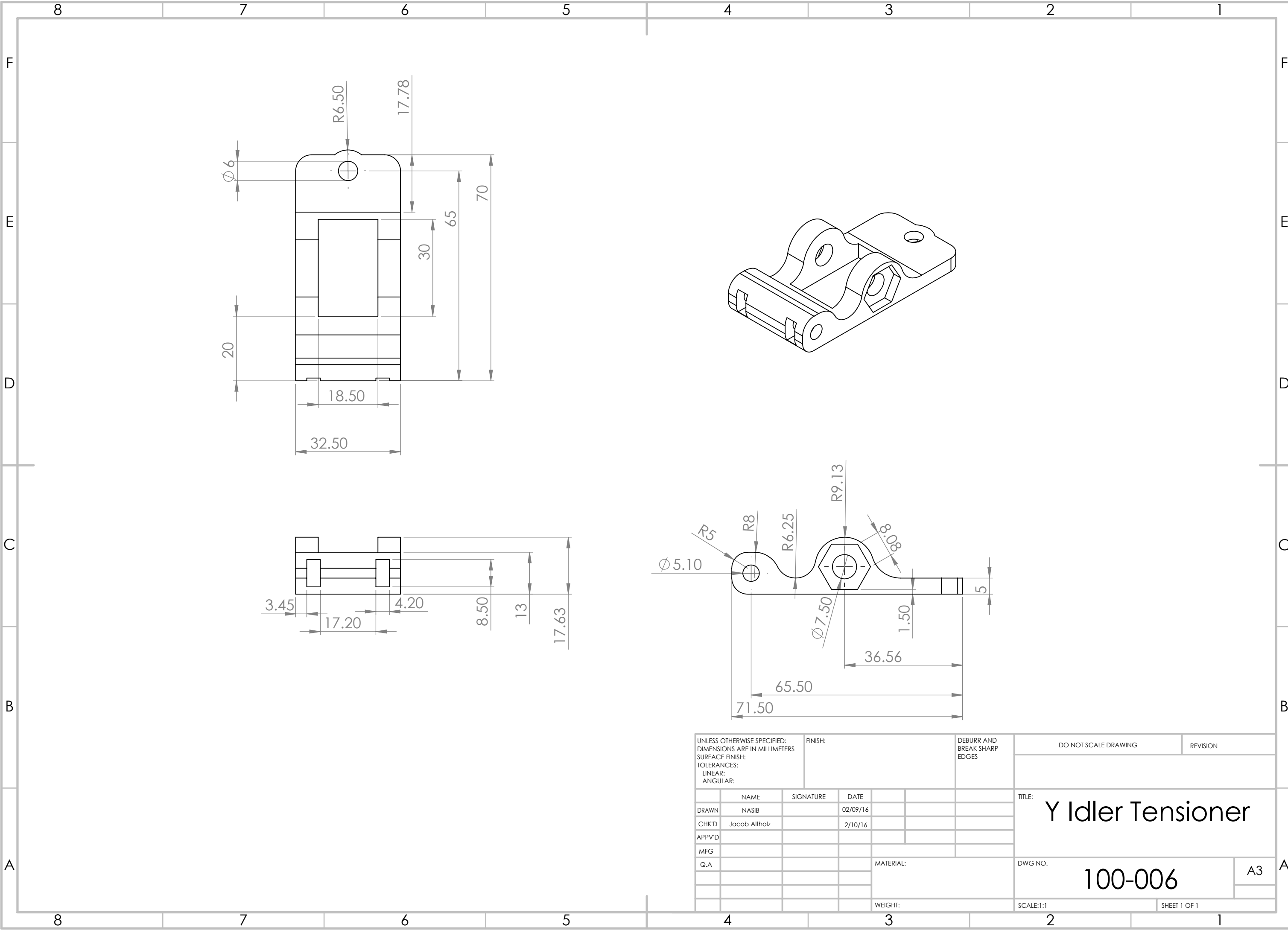
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	NAME	SIGNATURE	DATE				TITLE:  <b>L - Bracket</b>	
DRAWN	Jacob Altholz		2/3/16					
CHK'D								
APPV'D								
MFG								
Q.A							DWG NO.	A3
							<b>100 - 002</b>	
						WEIGHT:	SCALE:1:1	SHEET 1 OF 1





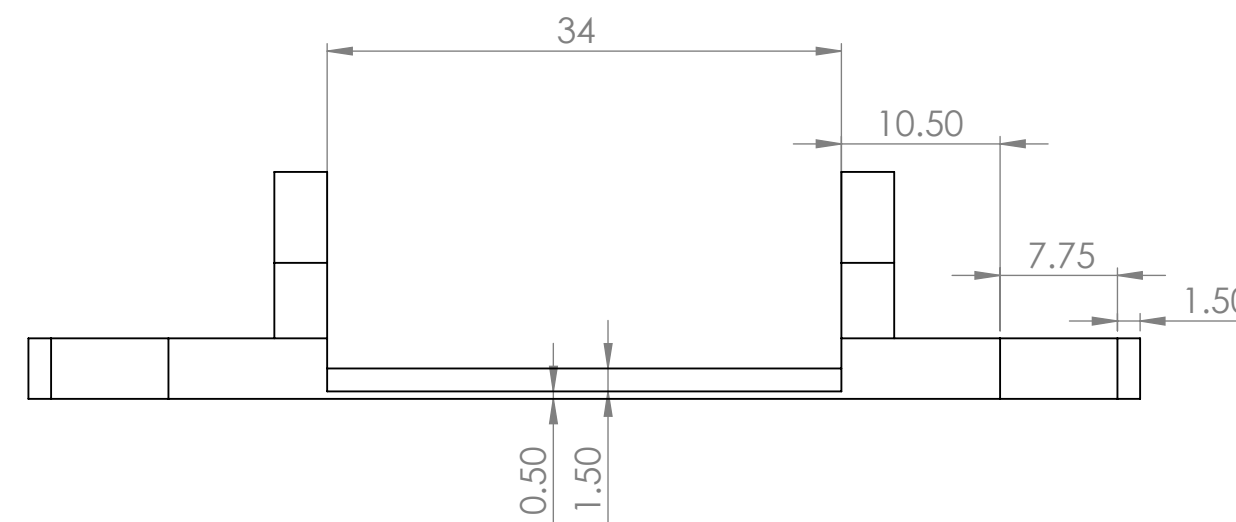
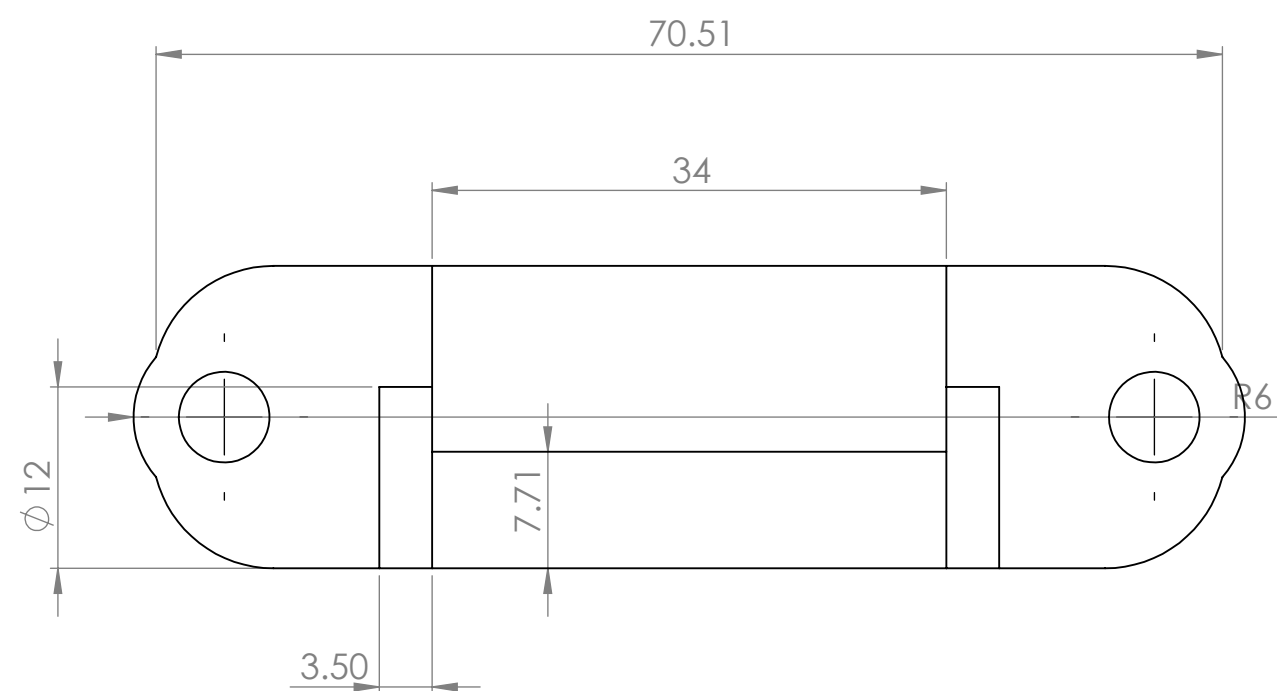
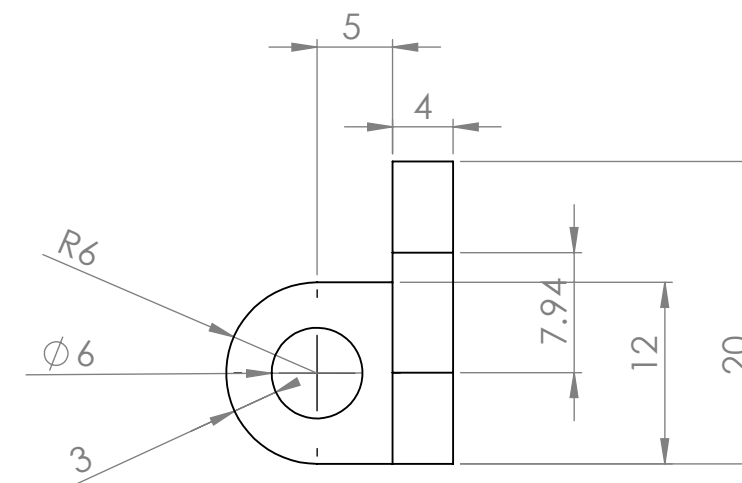
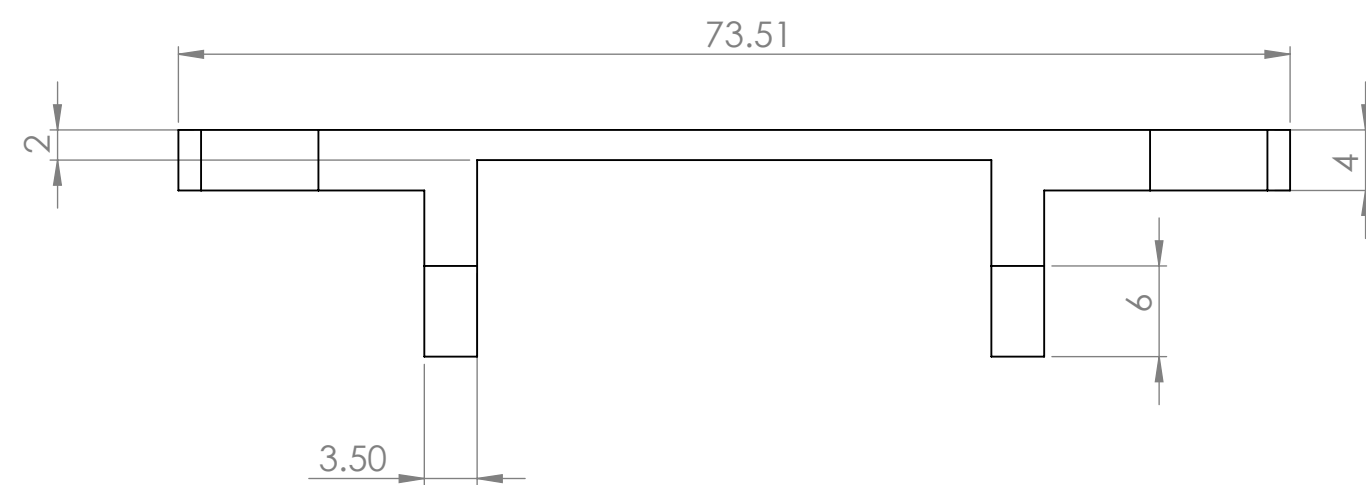
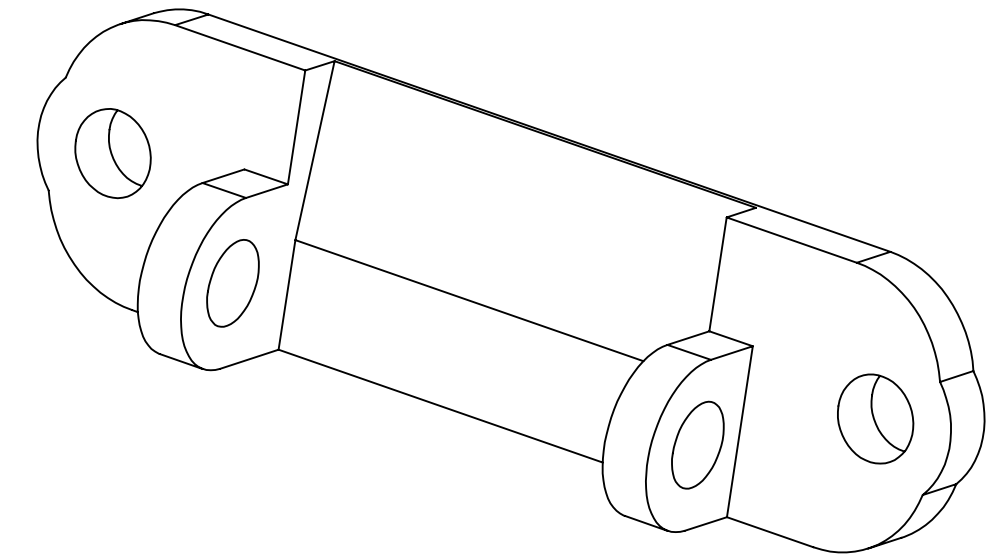
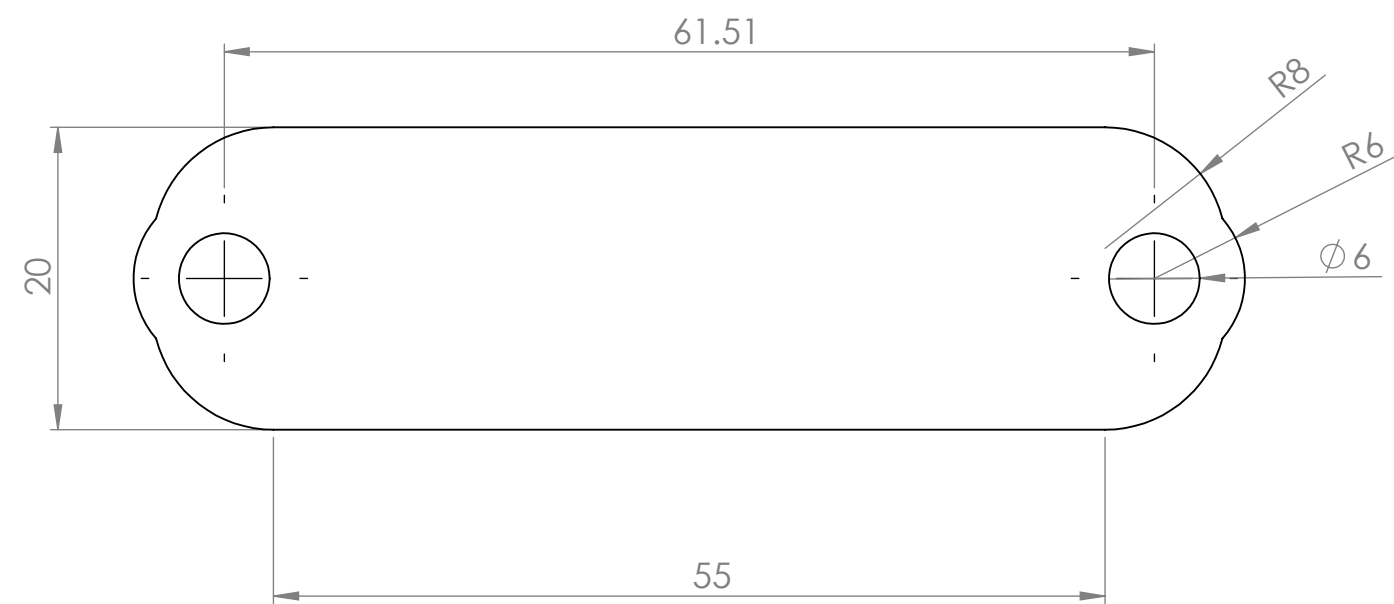
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		NAME		SIGNATURE		DATE				TITLE:  Y Motor Mount	
DRAWN		NASIB				02/09/16					
CHK'D		Jacob Altholz				2/10/16					
APPV'D											
MFG											
Q.A											
								MATERIAL:		DWG NO.	
										100-004	
										A3	
								WEIGHT:		SCALE:2:1	
										SHEET 1 OF 1	





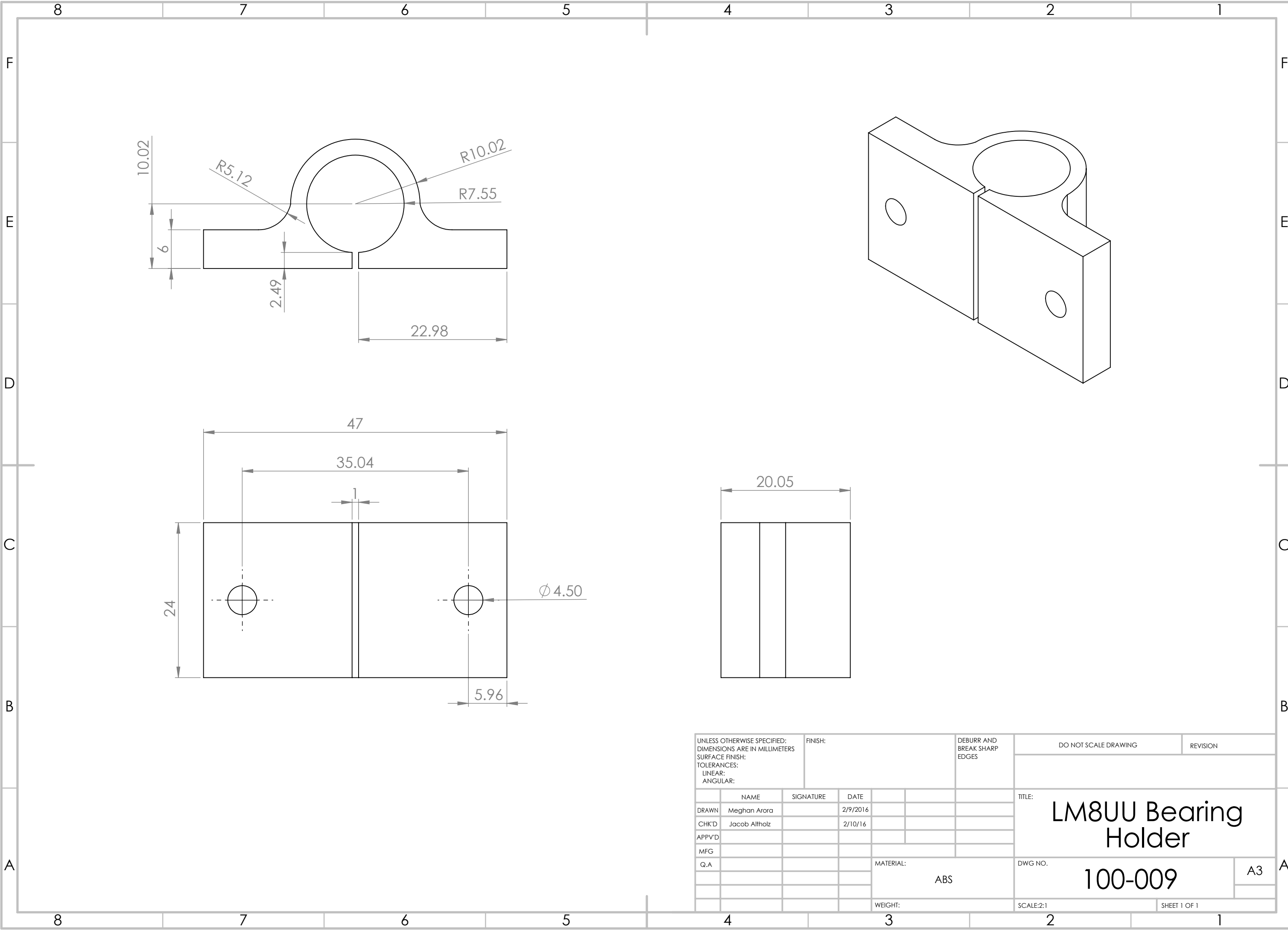
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							TITLE: Y Idler Tensioner		
DRAWN	NASIB	SIGNATURE	DATE				DWG NO.		A3
CHK'D	Jacob Altholz		2/10/16				100-006		
APPV'D									
MFG							SCALE:1:1		
Q.A									
							SHEET 1 OF 1		
							WEIGHT:		



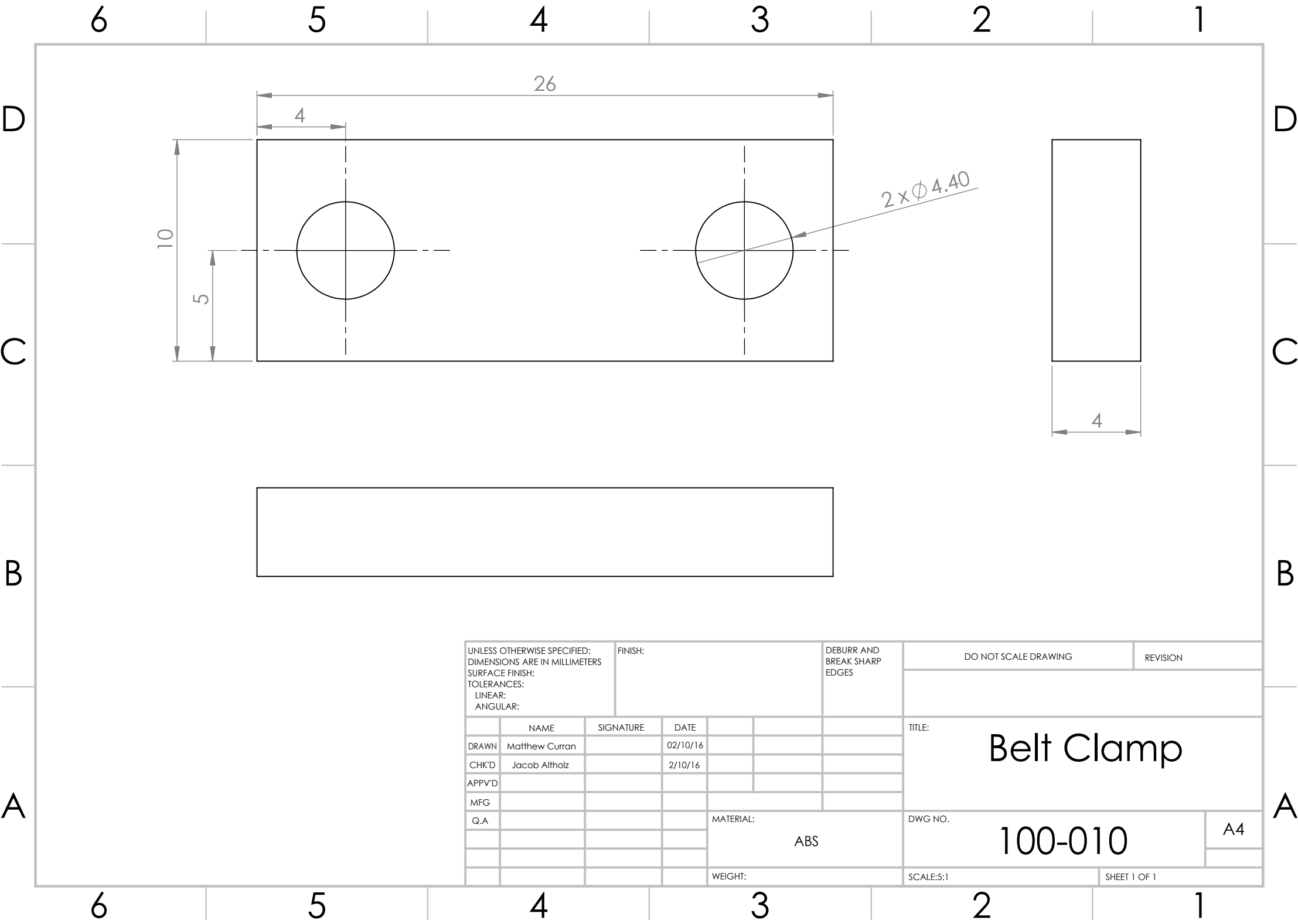


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DRAWN		NAME		SIGNATURE		DATE				TITLE:	
		Meghan Arora				2/9/2016				Y Idler Mount	
CHK'D		Jacob Altholz				2/10/16					
APPY'D											
MFG											
Q.A								MATERIAL:		DWG NO.	
										100-007	
								WEIGHT:		A2	
								SCALE:2:1		SHEET 1 OF 1	





UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:				FINISH:		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION		
	NAME	SIGNATURE	DATE				TITLE:  LM8UU Bearing Holder					
DRAWN	Meghan Arora		2/9/2016									
CHK'D	Jacob Altholz		2/10/16									
APPV'D												
MFG							DWG NO.  100-009					
Q.A												
							SCALE:2:1					
							SHEET 1 OF 1					



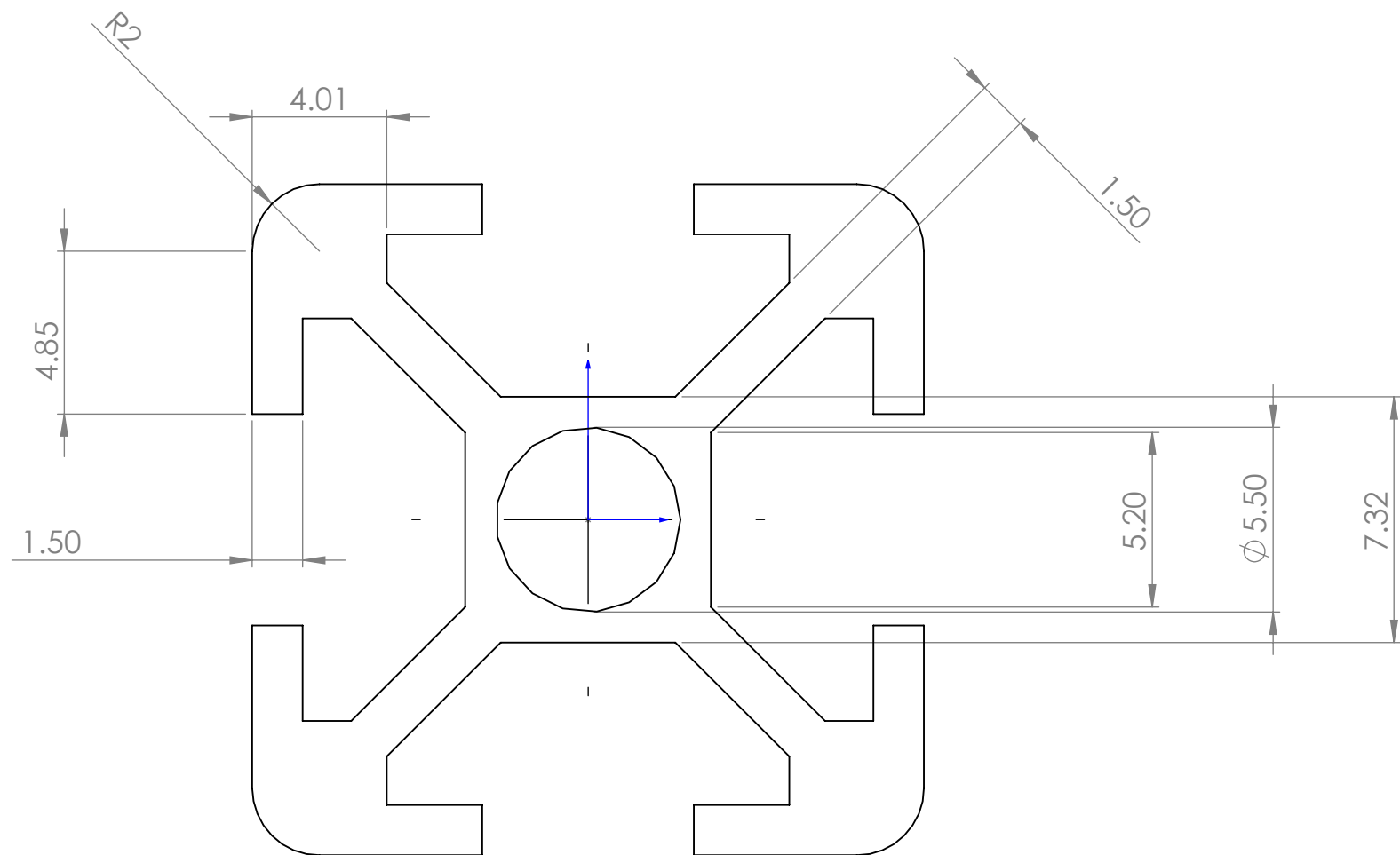
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	NAME	SIGNATURE	DATE				TITLE:  Belt Clamp			
DRAWN	Matthew Curran		02/10/16							
CHK'D	Jacob Altholz		2/10/16							
APPV'D										
MFG										
Q.A							MATERIAL:  ABS			DWG NO.
										100-010
										A4
							WEIGHT:			SCALE:5:1
										SHEET 1 OF 1

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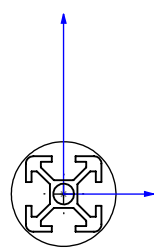


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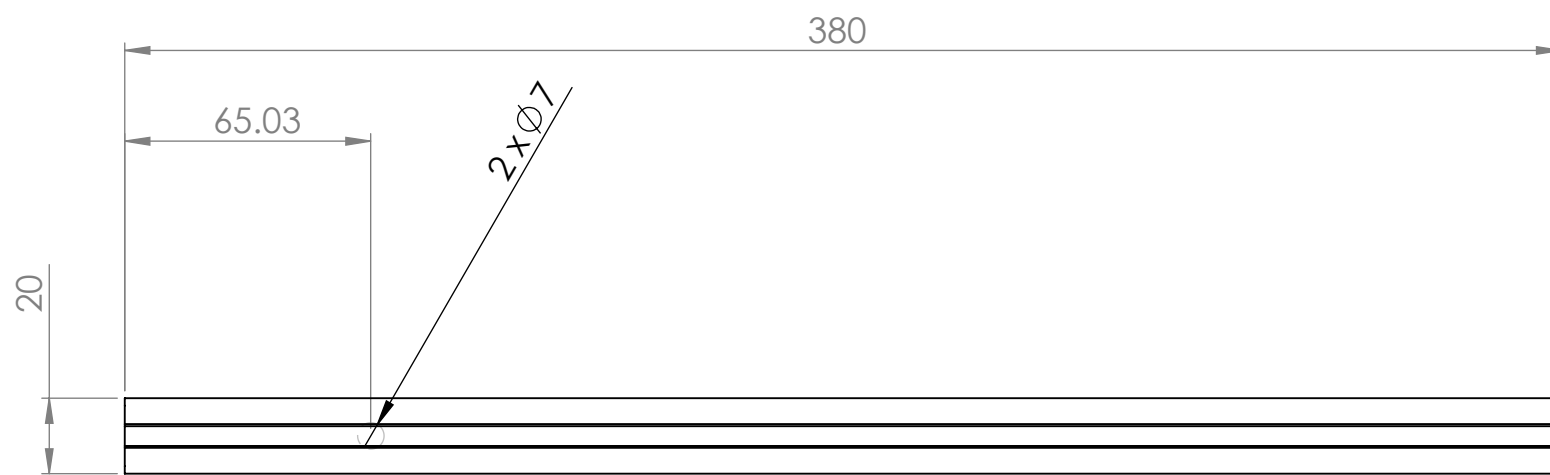
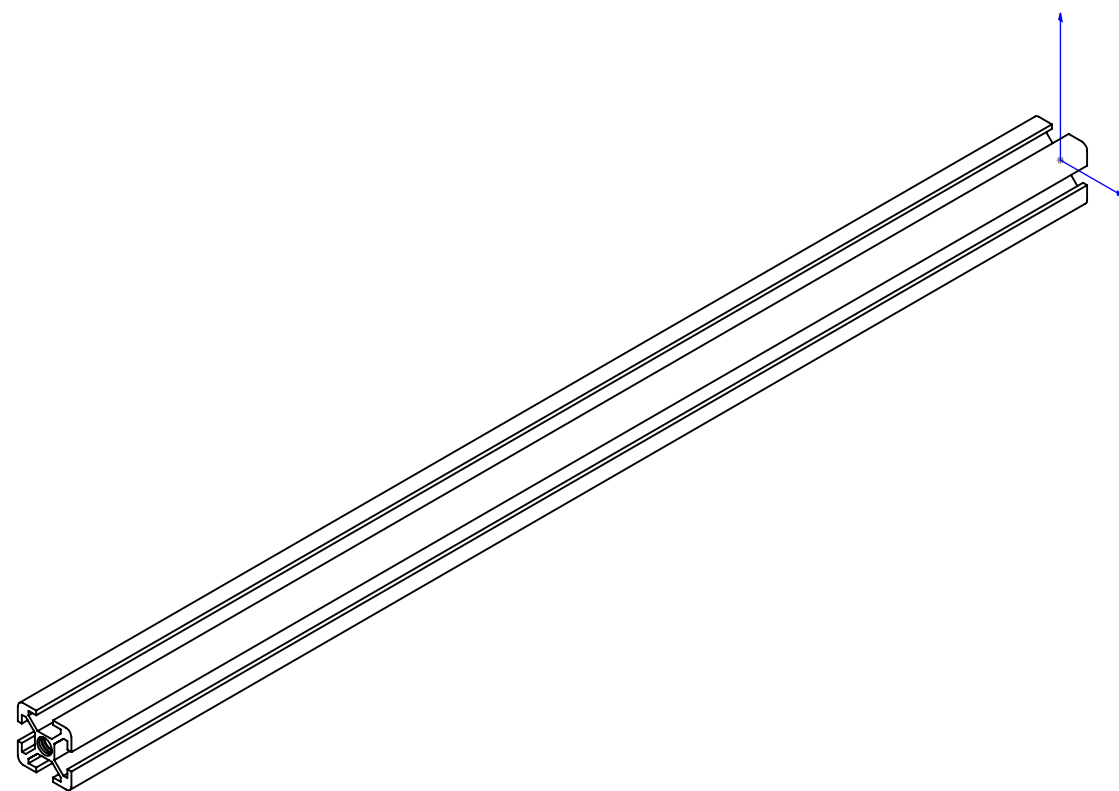
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DRAWN: Adam Rouff				SIGNATURE:		DATE: 2/8/16		TITLE: 80/20 30cm Aluminum Extrude			
CHK'D: Jacob Altholz				SIGNATURE:		DATE: 2/10/16		DWG NO. 200-002			
APPV'D:				SIGNATURE:		DATE:		A2			
MFG:				SIGNATURE:		DATE:		SCALE: 1:2			
Q.A:				SIGNATURE:		DATE:		SHEET 1 OF 1			
				MATERIAL: Aluminum							
				WEIGHT:							



DETAIL A  
SCALE 5 : 1

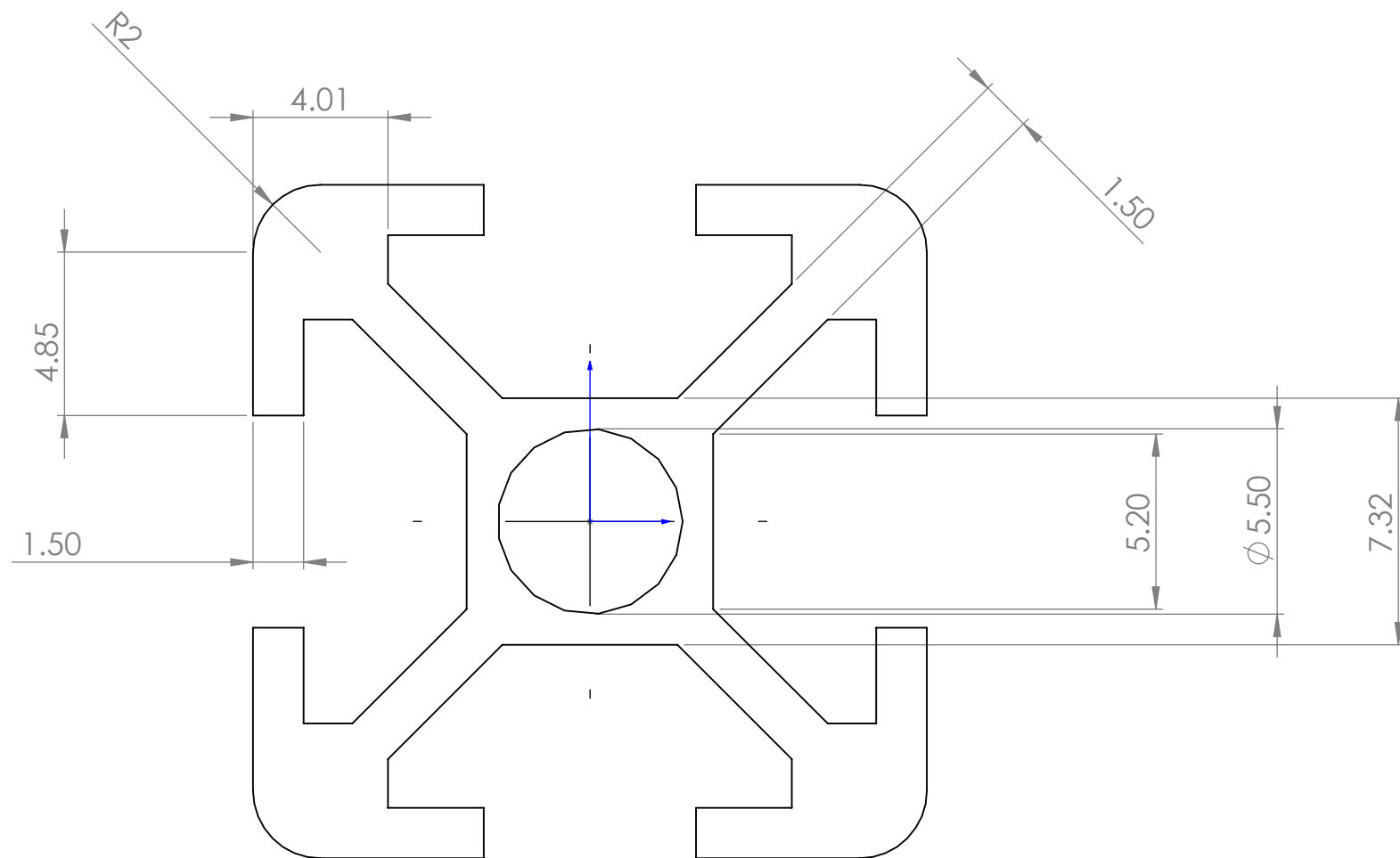


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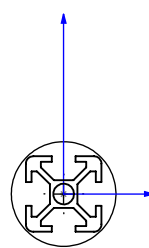


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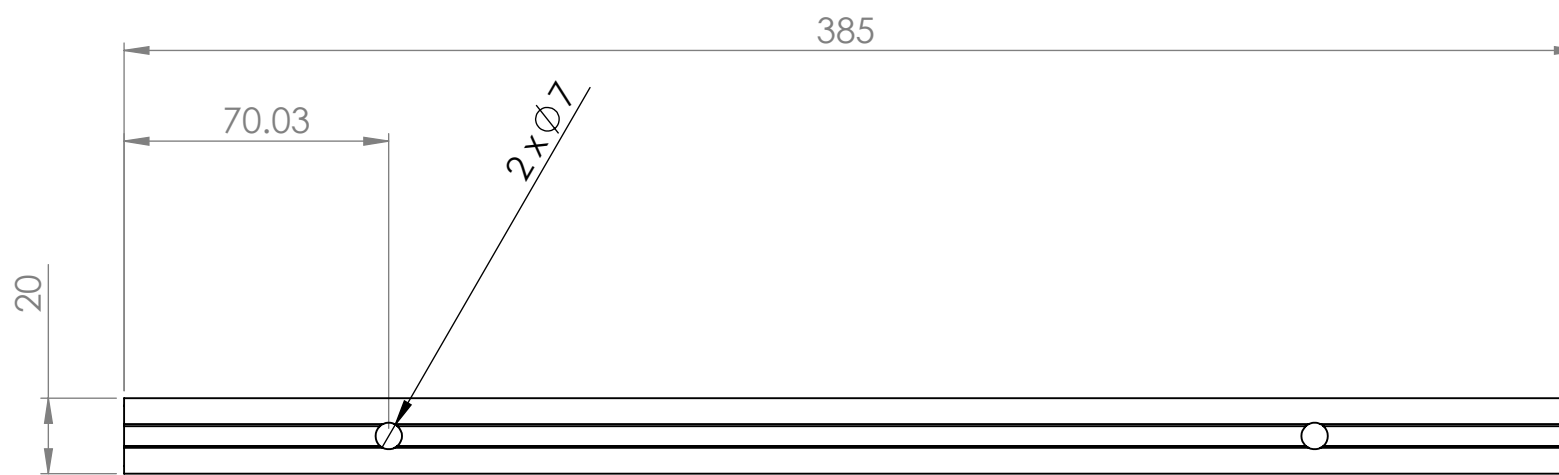
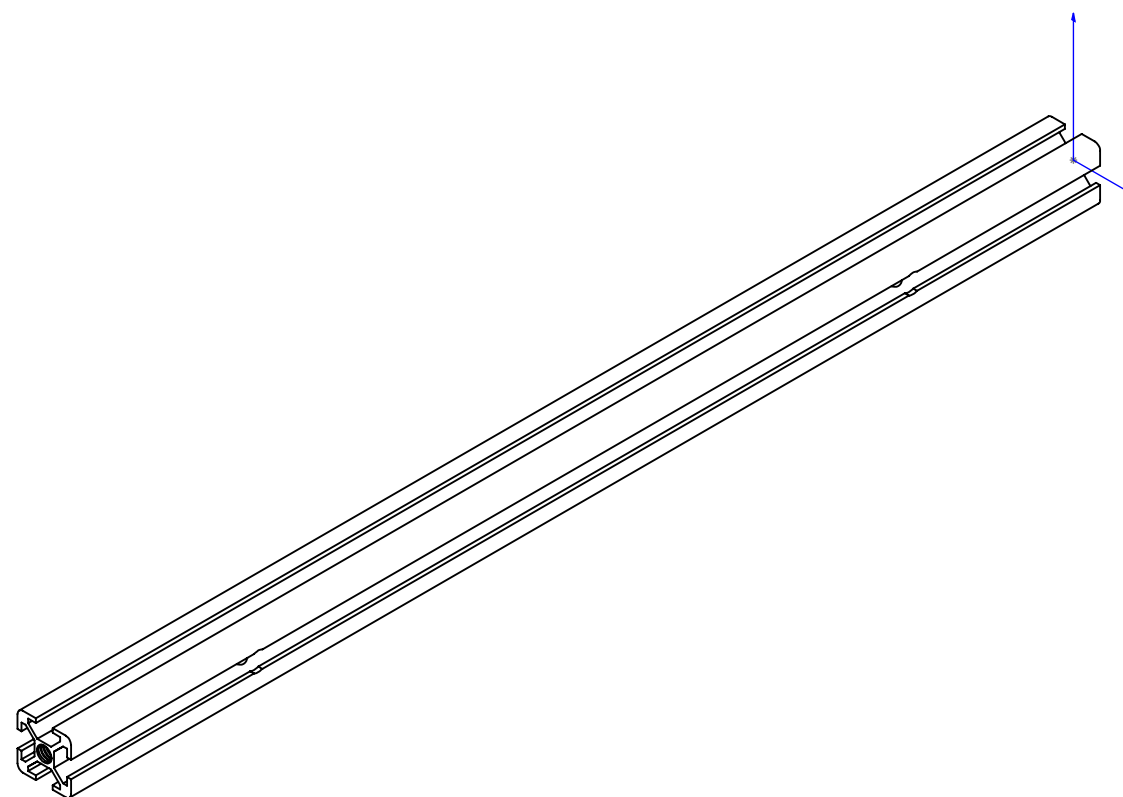
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		NAME		SIGNATURE		DATE				TITLE:  80/20 38.5cm Aluminum Extrusion	
DRAWN		Adam Rauff				2/8/16					
CHK'D		Jacob Altholz				2/10/16					
APPV'D											
MFG											
Q.A											
						MATERIAL:  ABS		DWG NO.  200-003		A2	
						WEIGHT:		SCALE:1:2		SHEET 1 OF 1	



DETAIL A  
SCALE 5 : 1



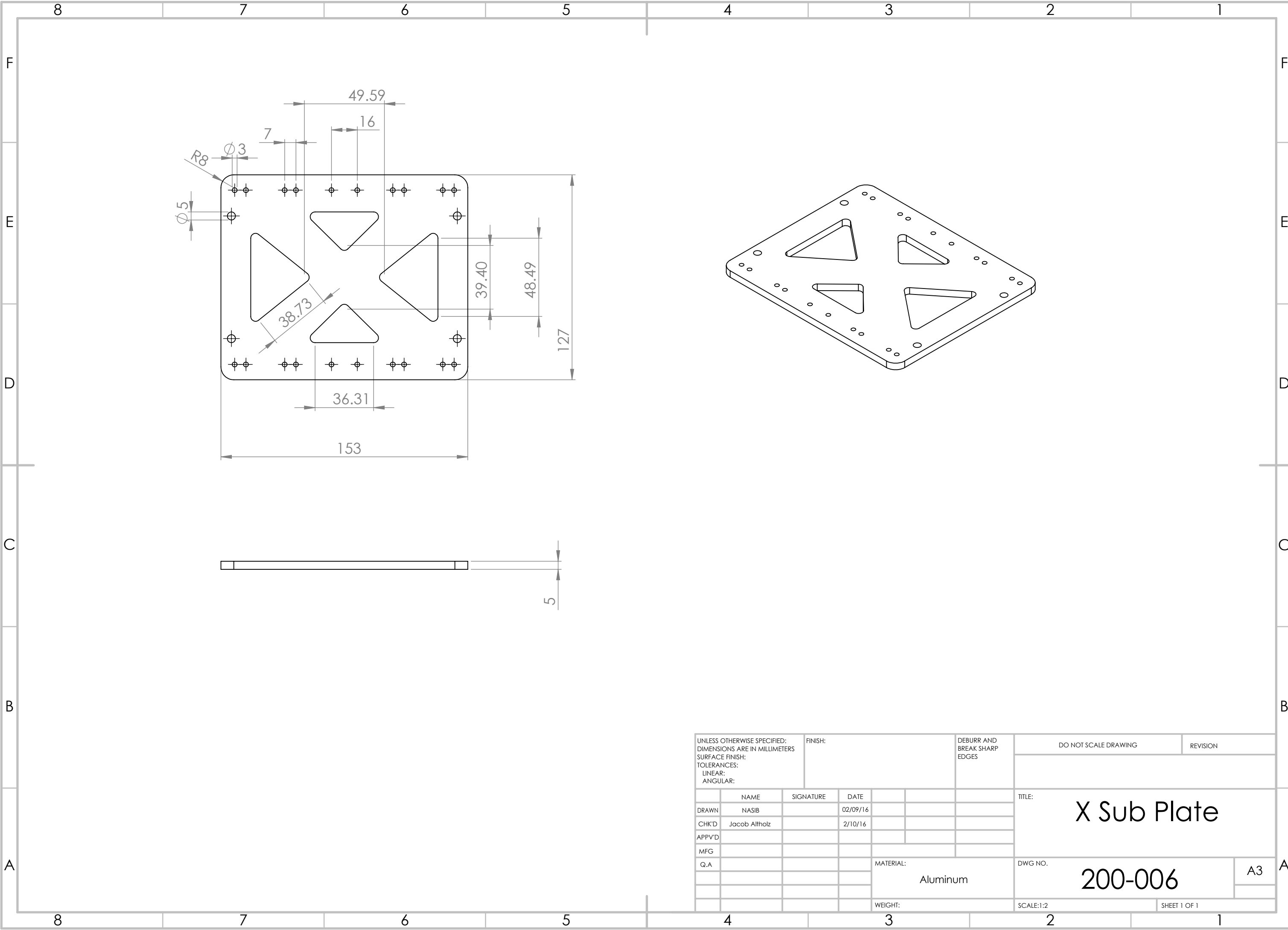
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UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:				FINISH:		DEBURR AND BREAK SHARP EDGES				DO NOT SCALE DRAWING				REVISION					
														TITLE:  80/20 38.5cm Aluminum Extrusion					
DRAWN		Adam Rauff				DATE		2/8/16											
CHK'D		Jacob Altholz				DATE		2/8/16											
APP'VD																			
MFG																			
Q.A																			





UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:				FINISH:		DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION
	NAME	SIGNATURE	DATE				TITLE:  X Sub Plate	
DRAWN	NASIB		02/09/16					
CHK'D	Jacob Altholz		2/10/16					
APPV'D								
MFG							DWG NO.  200-006	
Q.A								
						MATERIAL:  Aluminum	SCALE:1:2	
						WEIGHT:	SHEET 1 OF 1	