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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	A006-Structure		1
2	A002-Beater		1
3	C0016-Heddle		2
4	T0019-100tGearShaft		1
5	6389K627	Light Duty Dry-Running Nylon Sleeve Bearing	3
6	90640A129	Low-Strength Steel Nylon-Insert Locknut	4
7	57105K13	XL Series Lightweight Timing Belt Pulley	3
8	57105K24	XL Series Lightweight Timing Belt Pulley	2
9	P0054-PVCWeightHolder		1
10	P0054-PVCWeightHolder		1
11	Part2^A001-Loom		1
12	Part3^A001-Loom		1
13	P0057-Weight		1
14	P0056-WeightGuide		1
15	P0058-PVCTubeTop2		1
16	Heddle Alignment Ass		2
17	A008-DCMotorMount		1
18	P0061-DCMotorMountBar		1
19	P0036-BearingHolder		2
20	60355K701	Ball Bearing	3
21	C0003-0.25RotaryShaft-1327K66	Rotary Shaft	1
22	57105K27	XL Series Lightweight Timing Belt Pulley	1
23	P0062-LinkageSpacer		1
24	T0018-100t10tComboGear		1
25	P0070-MotorBushing		1
26	92949A546	18-8 Stainless Steel Button Head Hex Drive Screw	8
27	92949A544	18-8 Stainless Steel Button Head Hex Drive Screw	4
28	92949A201	18-8 Stainless Steel Button Head Hex Drive Screw	10
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TOLERANCES:

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ANGULAR: MACH ± BEND ±

TWO PLACE DECIMAL ±

THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

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DO NOT SCALE DRAWING

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NEXT ASSY

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COMMENTS:

NAME

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TITLE:

SIZE DWG. NO.

REV

SCALE: 1:12WEIGHT:

SHEET 1 OF 1

Loom Assembly Exploded View

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	P0025-BaseBarLong		2
2	P0024-BaseBarWide		2
3	P0026-VertBarFront		2
4	P0029-CornerBracket		12
5	P0028-VertBarBack		2
6	P0031-HeddleCamSupport		2
7	Part4^A006-Structure		1
8	P0027-VertBarCenter		2
9	P0030-TBracket		4
10	P0036-BearingHolder		3
11	60355K701	Ball Bearing	10
12	P0033-TreadleBearingHolder1		2
13	6389K627	Light Duty Dry-Running Nylon Sleeve Bearing	4
14	C0003-0.25RotaryShaft-1327K66	Rotary Shaft	1
15	P0032-TreadleBeam		2
16	P0034-TreadleBearingHolder2		2
17	P0023-BreastBeamBracket		1
18	P0023-BreastBeamBracket		1
19	P0037-ClothBeamBar		2
20	P0038-ClothBeamBracket		1
21	P0038-ClothBeamBracket		1
22	P0039-HeddleSupportBar		1
23	P0040-HeddleRollerBracket		2
24	C0003-0.25RotaryShaft-1327K66	Rotary Shaft	3
25	CamV2		2
26	C0003-0.25RotaryShaft-1327K66	Rotary Shaft	1
27	P0045-RollerWoodEnds		6
28	P0044-RollerPVC		2
29	C0003-0.25RotaryShaft-1327K66	Rotary Shaft	2
30	P0054-BearingHolder		2
31	P0044-RollerPVC		1
32	C0003-0.25RotaryShaft-1327K66	Rotary Shaft	2
33	P0066-ClothRollerBracket		1
34	P0067-ClothRollerBracketOnly		1
35	90640A129	Low-Strength Steel Nylon-Insert Locknut	53
36	92949A546	18-8 Stainless Steel Button Head Hex Drive Screw	39
37	91306A384	Button Head Hex Drive Screws	1
38	92949A160	18-8 Stainless Steel Button Head Hex Drive Screw	13
39	91306A383	Button Head Hex Drive Screws	39
40	92949A551	18-8 Stainless Steel Button Head Hex Drive Screw	8
41	92949A201	18-8 Stainless Steel Button Head Hex Drive Screw	4
42	92949A544	18-8 Stainless Steel Button Head Hex Drive Screw	3
43	92949A201	18-8 Stainless Steel Button Head Hex Drive Screw	8

STRUCTURES SUBASSEMBLY EXPLODED VIEW

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		TWO PLACE DECIMAL ±	Q.A.			
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		INTERPRET GEOMETRIC TOLERANCING PER:				
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NEXT ASSY	USED ON					
APPLICATION		DO NOT SCALE DRAWING				

SIZE DWG. NO.

REV

Structures Subassembly Explode

SCALE: 1:8 WEIGHT: SHEET 1 OF 1

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STRUCTURES SUBASSEMBLY EXPLODED VIEW

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Structures Subassembly Explode

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Structures Subassembly Explode

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Structures Subassembly Explode

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Structures Subassembly Explode

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SIZE DWG. NO.

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Structures Subassembly Explode

SCALE: 1:8 WEIGHT: SHEET 1 OF 1

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STRUCTURES SUBASSEMBLY EXPLODED VIEW

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		MATERIAL				
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NEXT ASSY	USED ON					
APPLICATION		DO NOT SCALE DRAWING				

SIZE DWG. NO.

REV

Structures Subassembly Explode

SCALE: 1:8 WEIGHT: SHEET 1 OF 1

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STRUCTURES SUBASSEMBLY EXPLODED VIEW

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APPLICATION		DO NOT SCALE DRAWING				

SIZE DWG. NO.

REV

Structures Subassembly Explode

SCALE: 1:8 WEIGHT: SHEET 1 OF 1

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STRUCTURES SUBASSEMBLY EXPLODED VIEW

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NEXT ASSY	USED ON					
APPLICATION		DO NOT SCALE DRAWING				

SIZE DWG. NO.

REV

Structures Subassembly Explode

SCALE: 1:8 WEIGHT: SHEET 1 OF 1

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STRUCTURES SUBASSEMBLY EXPLODED VIEW

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	C0003-0.25RotaryShaft-1327K66	Rotary Shaft	1
2	1327K66	Rotary Shaft	1
3	P0012-ShuttleFlickerPivot		1
4	P0012-ShuttleFlickerPivot		1
5	90480A007	Low-Strength Steel Hex Nut	2
6	92949A146	18-8 Stainless Steel Button Head Hex Drive Screw	2
7	P0013-ShuttleFlicker		2
8	60355K701	Ball Bearing	6
9	20L_HB		1
10	20L_HB		1
11	P0038-ShaftHub		3
12	P0046-SectorGear		2
13	P0047-SpurGear		2
14	P0053-FlickerSpool		1
15	P0053-FlickerSpool		1
16	57105K18	XL Series Lightweight Timing Belt Pulley	1
17	P0018-Shuttle		1
18	P0019-ShuttleInsert		2
19	P0020-ShuttleSpool		1
20	P0001-Beater Post		2
21	P0002-Beater Frame		1
22	P0003-Beater Rail		1
23	P0004-Beater Rail Back Support		2
24	P00011-Beater Rail Front Support		1
25	P00011-Beater Rail Front Support		1
26	P0021-BeaterFlatStriaghtBracket		2
27	P0006-Crank Web		4
28	P0007-Crank Shaft		2
29	P0007-Crank Shaft		2
30	P0007-Crank Shaft		1
31	P0064-LinkageNew		2
32	Part3^A002-Beater		1
33	Part4^A002-Beater		1
34	6389K627	Light Duty Dry-Running Nylon Sleeve Bearing	8
35	P0014-ShuttleFlickerCamShaftMount		2
36	P0015-FlickerBlock		2
37	P0022-PostToShaft		2
38	P0021-BeaterLBracket_sheet metal		4
39	P0041-BeaterPivotBracket		2
40	P0051-Cableldler		2
41	P0050-IdlerMount		2
42	P0052-PerpendicularIdlerMount		1
43	P0052-PerpendicularIdlerMount		1
44	0.25		1
45	0.6		3
46	0.85		1
47	P0065-LinkageNewLock		2

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BEATER SBASSMEBLY EXPLODED VIEW

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NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			

SIZE	DWG. NO.	REV
Beater Subassembly Exploded		
SCALE: 1:12	WEIGHT:	SHEET 1 OF 1

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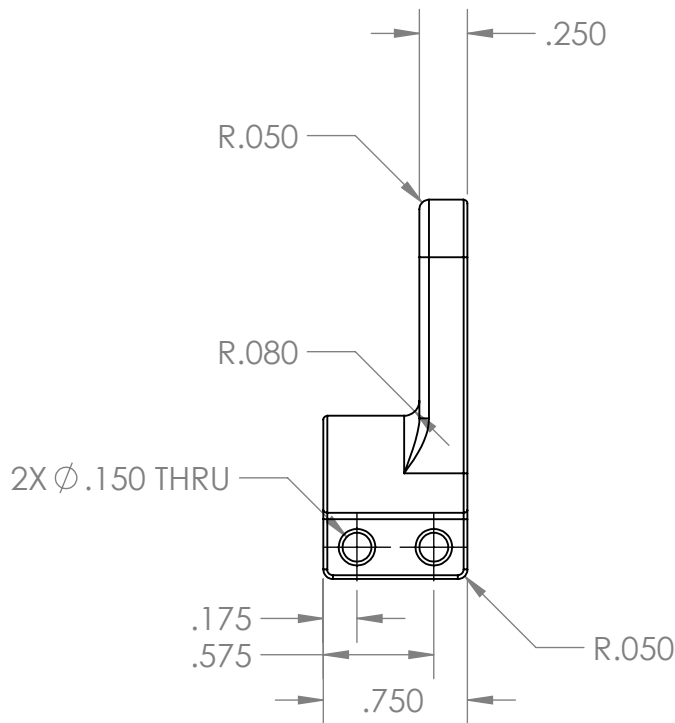
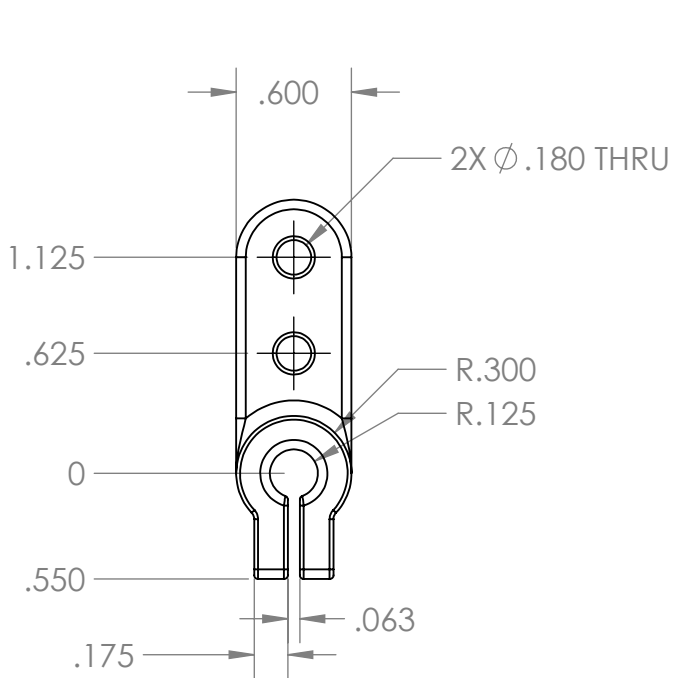
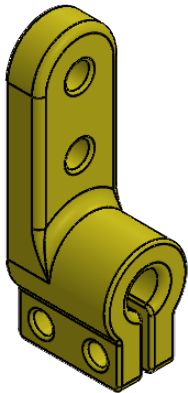
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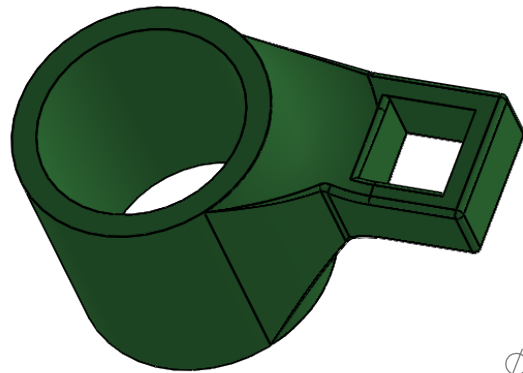
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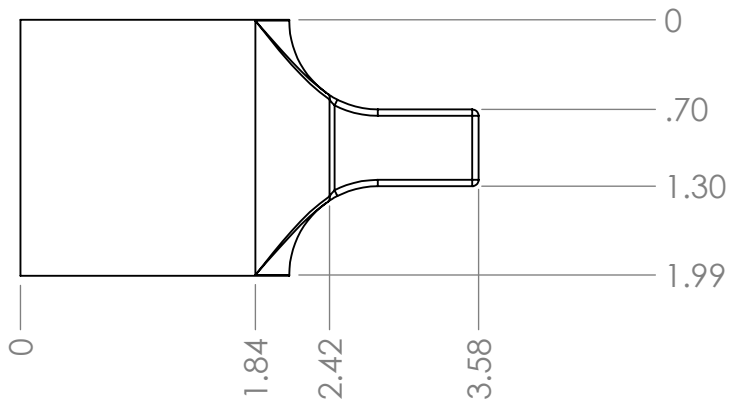
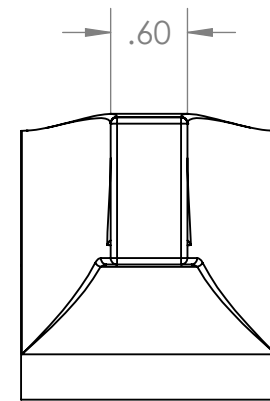
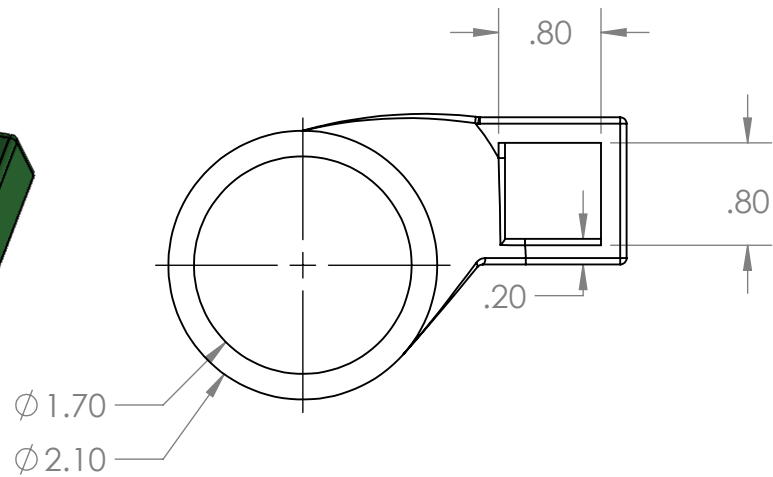


UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES SURFACE FINISH: TOLERANCES: 0.001 LINEAR: ANGULAR:				FINISH:		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION	
		NAME		SIGNATURE		DATE				TITLE:	
DRAWN											
CHK'D											
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Q.A								MATERIAL: PLA		DWG NO. P0022-PostToShaft	
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See CAD for more details for curves



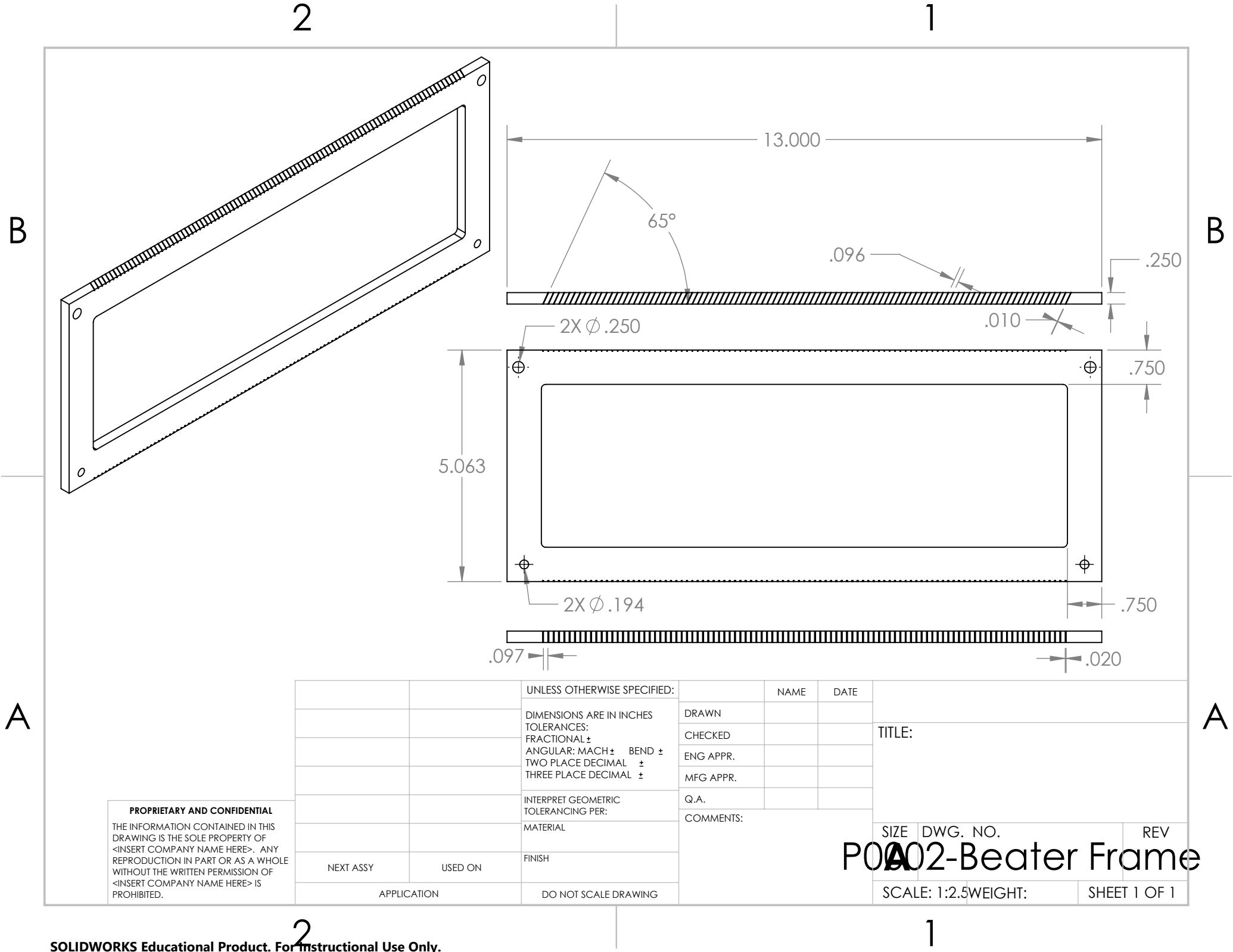
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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE:		
		DIMENSIONS ARE IN INCHES	DRAWN					
		TOLERANCES:	CHECKED					
		FRACTIONAL ±	ENG APPR.					
		ANGULAR: MACH ± BEND ±	MFG APPR.					
		TWO PLACE DECIMAL ±	Q.A.			SIZE DWG. NO. REV		
		THREE PLACE DECIMAL ±	COMMENTS:					
		INTERPRET GEOMETRIC TOLERANCING PER:				SCALE: 1:1.5WEIGHT: SHEET 1 OF 1		
		MATERIAL						
NEXT ASSY	USED ON	FINISH				Weight At PVC Attachment		
APPLICATION		DO NOT SCALE DRAWING						



B

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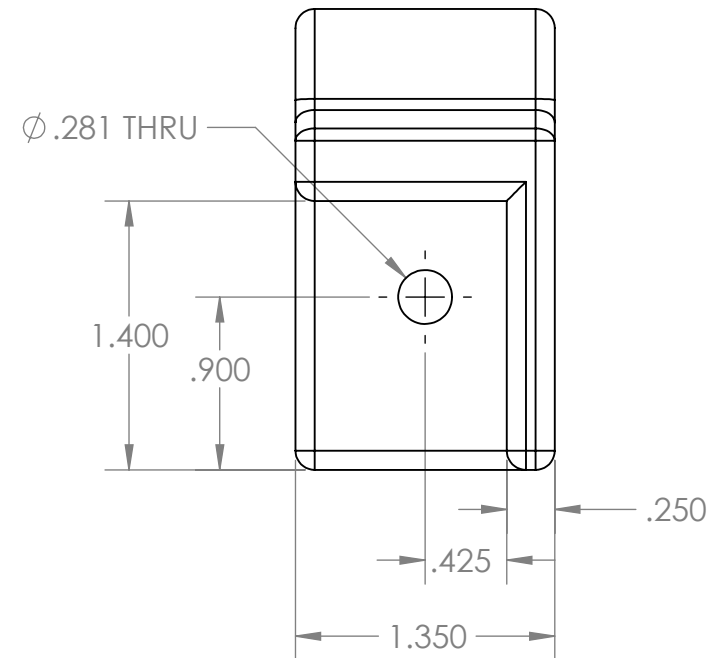
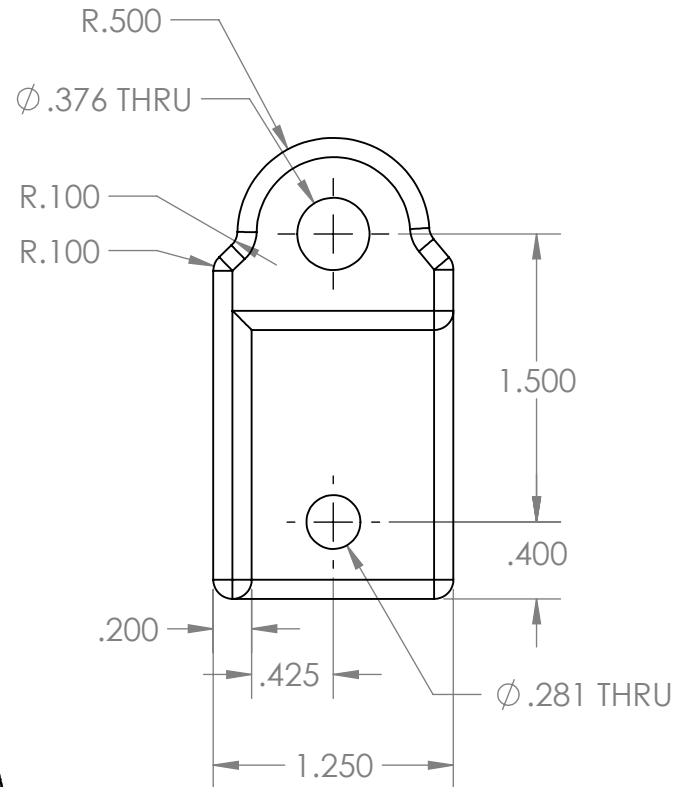
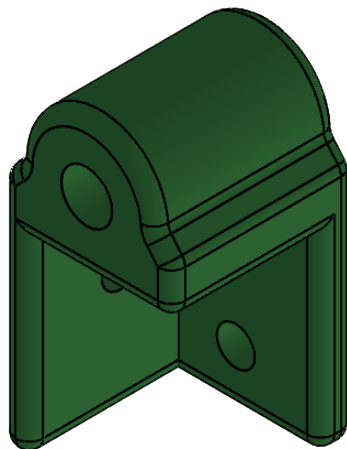
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		TOLERANCES:
		FRACTIONAL ±
		ANGULAR: MACH ± BEND ±
		TWO PLACE DECIMAL ±
		THREE PLACE DECIMAL ±
		INTERPRET GEOMETRIC TOLERANCING PER:
		MATERIAL
NEXT ASSY	USED ON	FINISH
APPLICATION		DO NOT SCALE DRAWING

	NAME	DATE
DRAWN		
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

TITLE:		
SIZE	DWG. NO.	REV
SCALE: 1:2.5		WEIGHT:
SHEET 1 OF 1		

P0002-Beater Frame



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES SURFACE FINISH: TOLERANCES: 0.001 LINEAR: ANGULAR:				FINISH:		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION	
	NAME	SIGNATURE	DATE			TITLE:					
DRAWN											
CHK'D											
APP'VD											
MFG											
Q.A				MATERIAL: PLA			DWG NO.				
							P0023-BreastBeamBracke				
							A1				
				WEIGHT:			SCALE:1:1			SHEET 1 OF 1	

D

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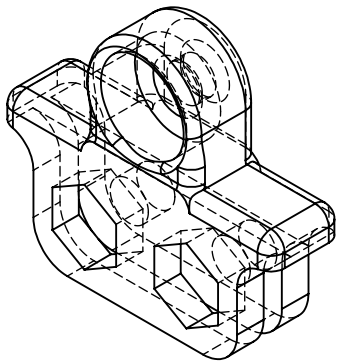
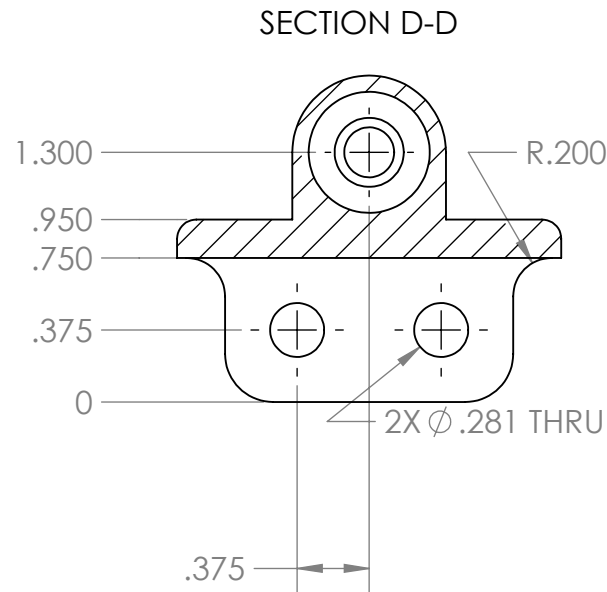
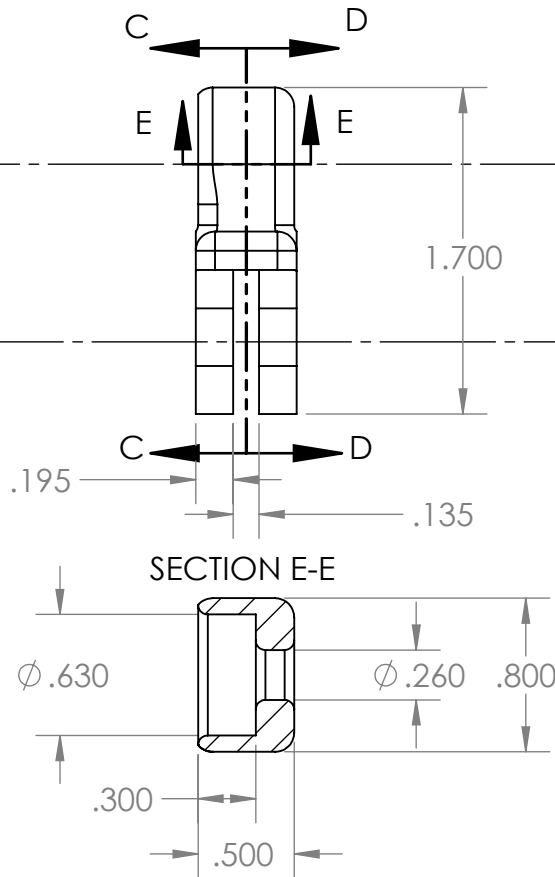
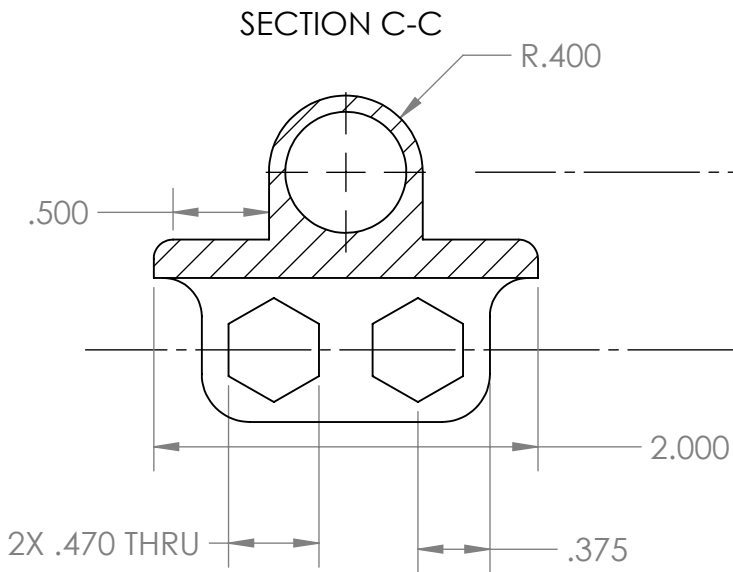
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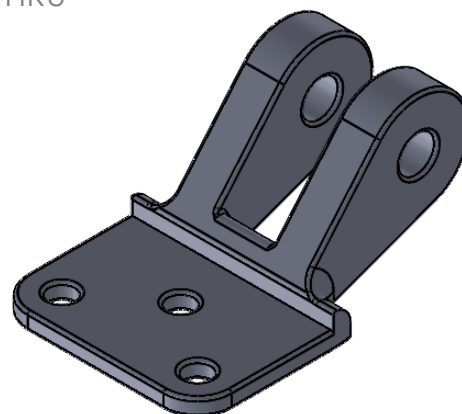
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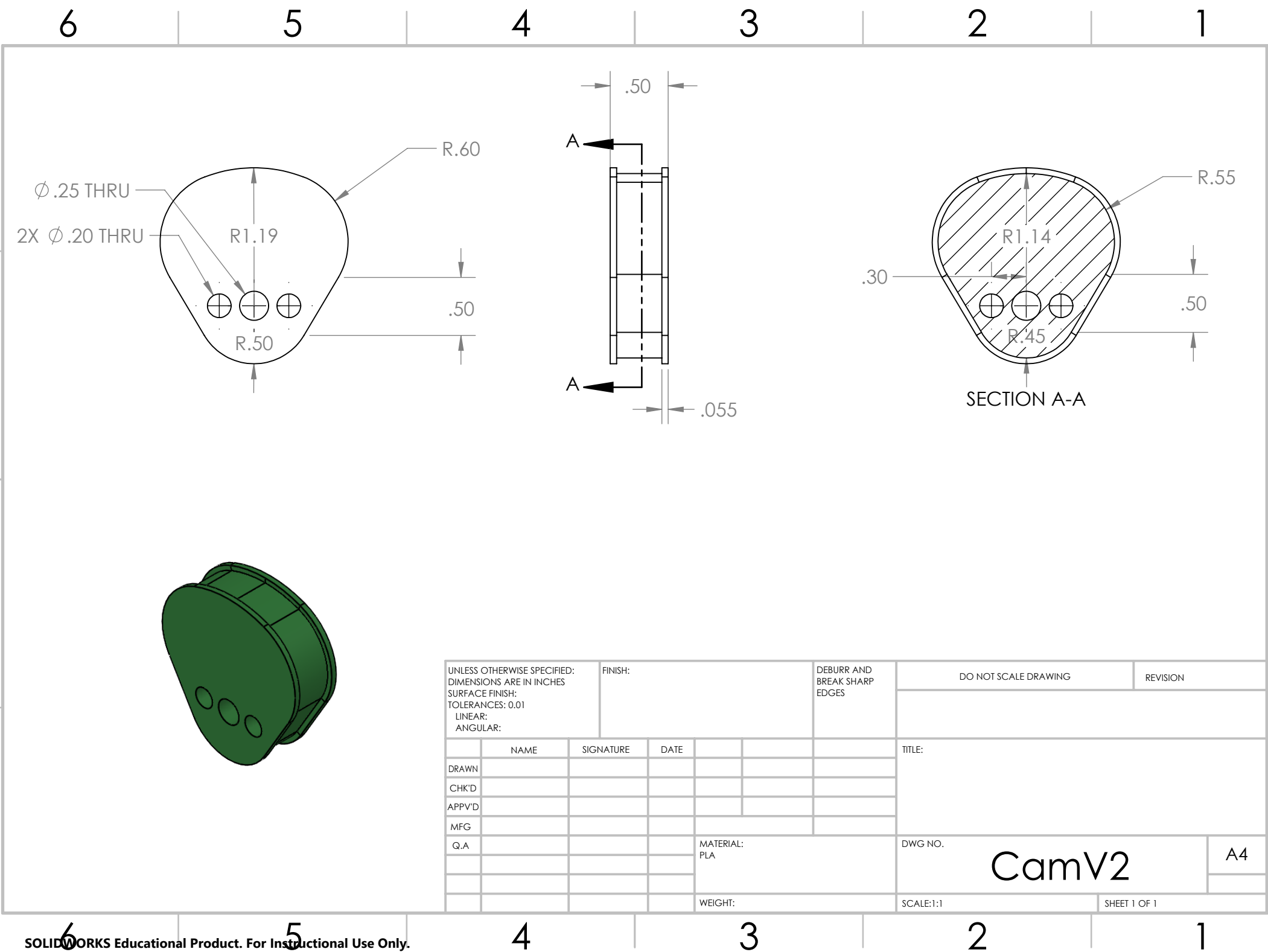
A



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES SURFACE FINISH: TOLERANCES: 0.001 LINEAR: ANGULAR:				FINISH:		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION	
DRAWN				NAME		SIGNATURE		DATE		TITLE:	
CHK'D											
APPV'D											
MFG											
Q.A								MATERIAL: PLA		DWG NO.	
								WEIGHT:		SCALE:1:1	
										SHEET 1 OF 1	

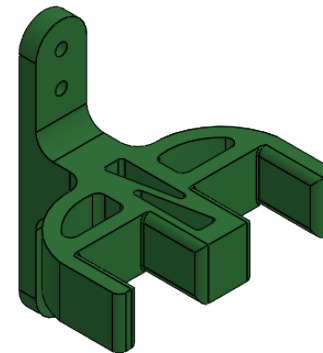
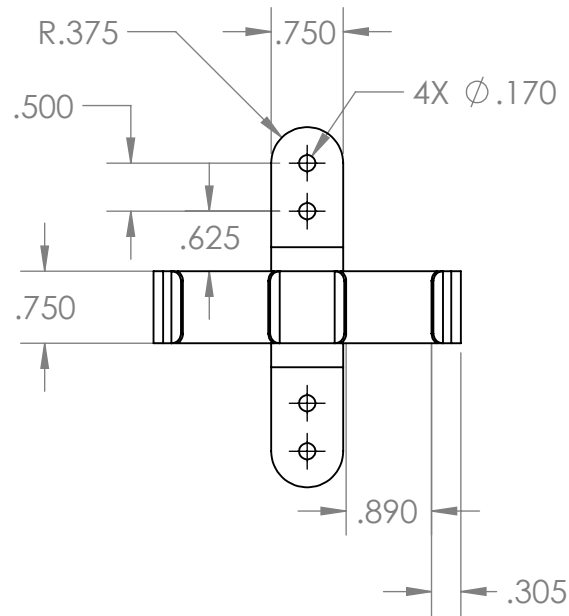
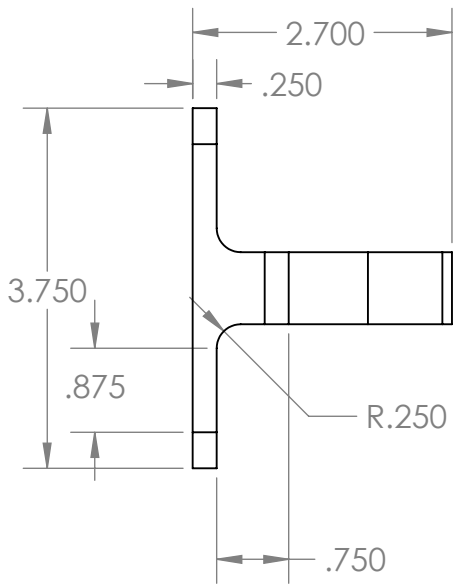
P0054-BearingHolder





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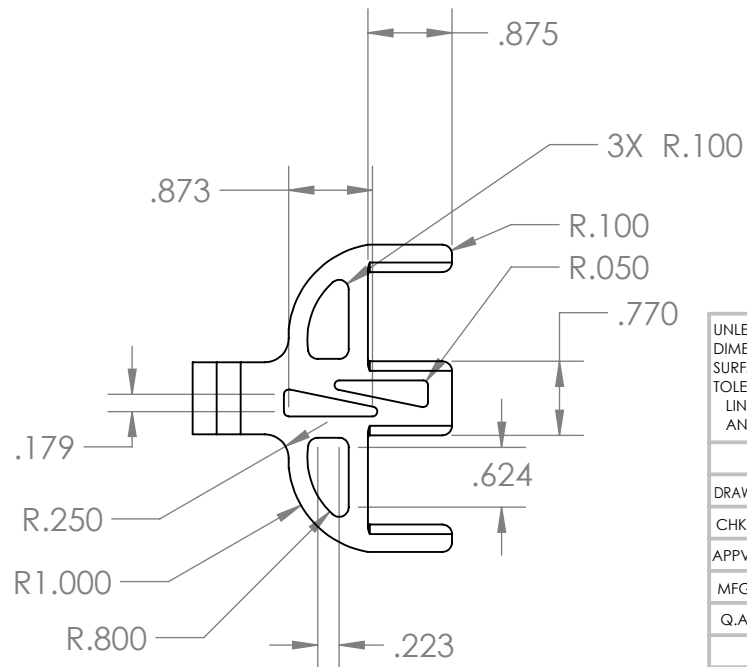


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UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
SURFACE FINISH:
TOLERANCES: 0.001
LINEAR:
ANGULAR:

FINISH:

DEBURR AND
BREAK SHARP
EDGES

DO NOT SCALE DRAWING

REVISION

	NAME	SIGNATURE	DATE			
DRAWN						
CHK'D						
APPV'D						
MFG						
Q.A						

MATERIAL:
PLA

TITLE:

DWG NO.

WEIGHT:

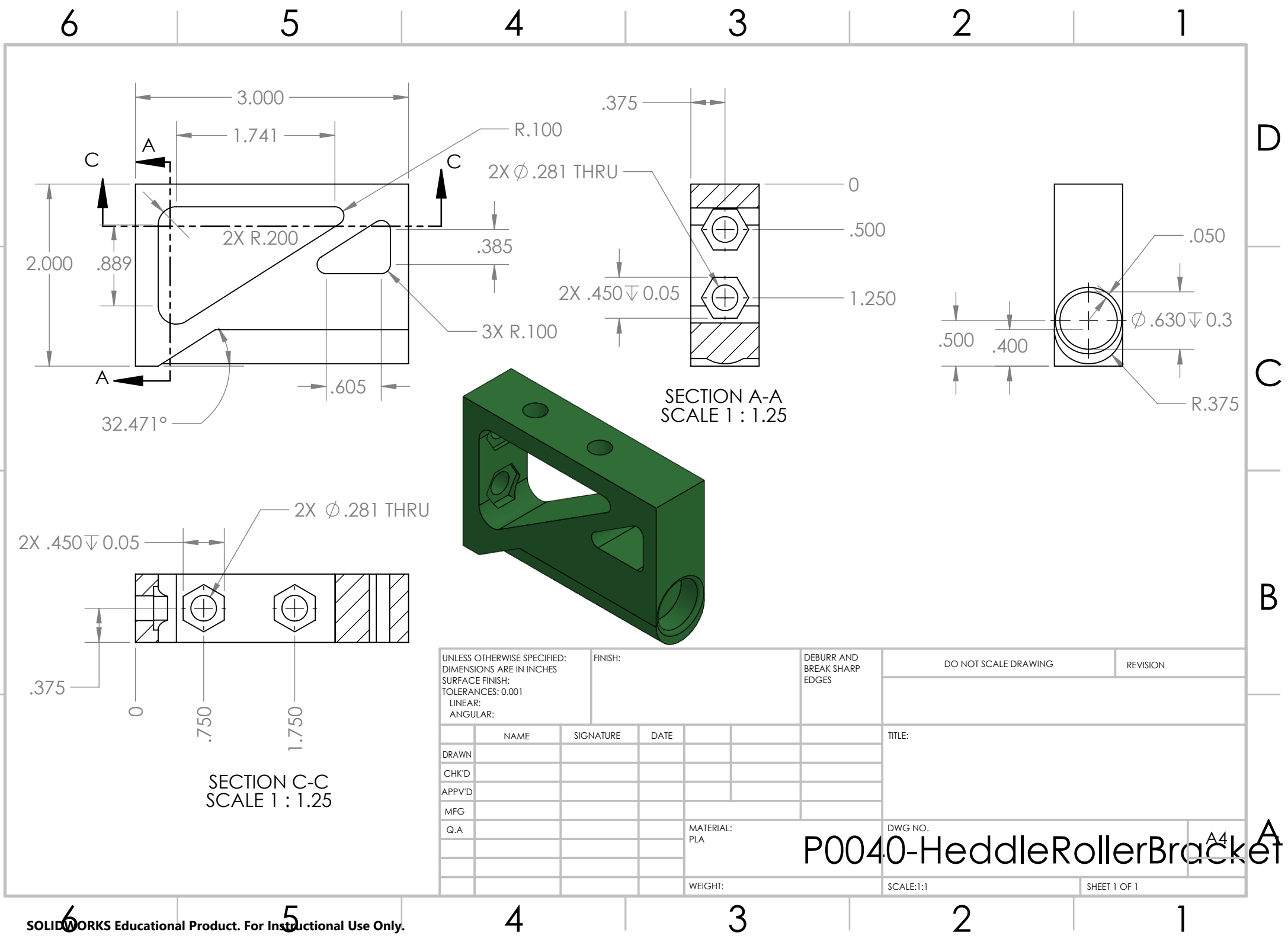
SCALE:1:2

SHEET 1 OF 1

P0041-HeddleAlignment

A4

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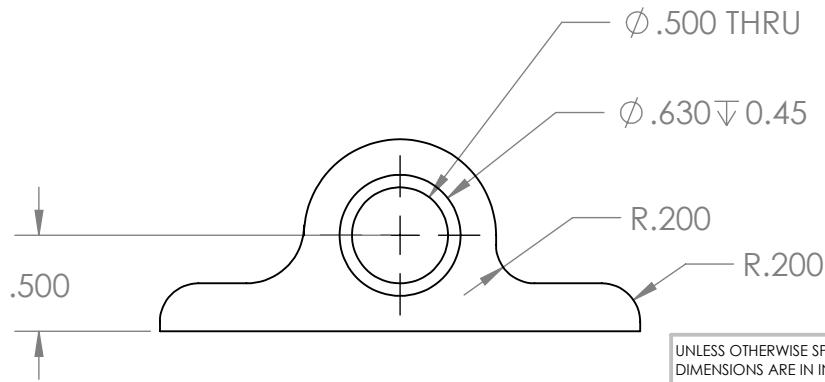
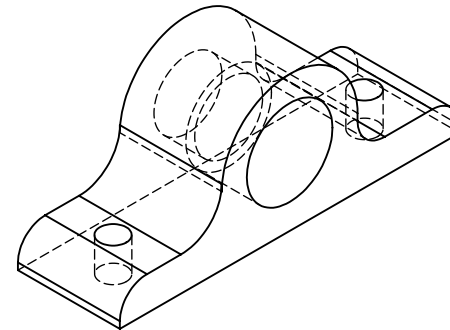
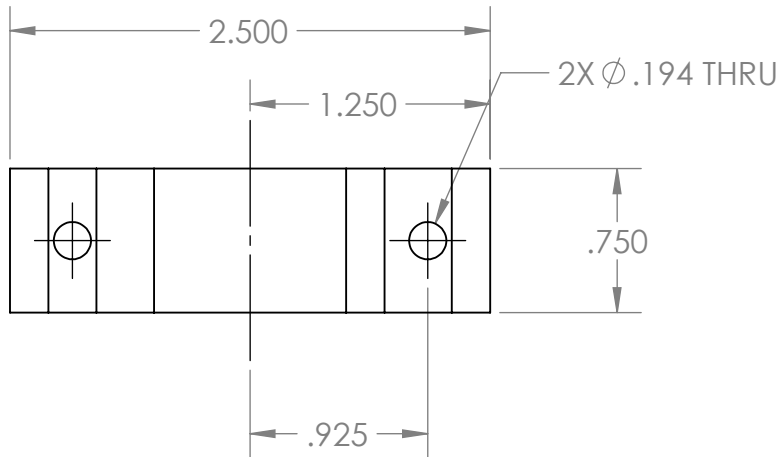
C

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UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
SURFACE FINISH:
TOLERANCES: 0.001
LINEAR:
ANGULAR:

FINISH:

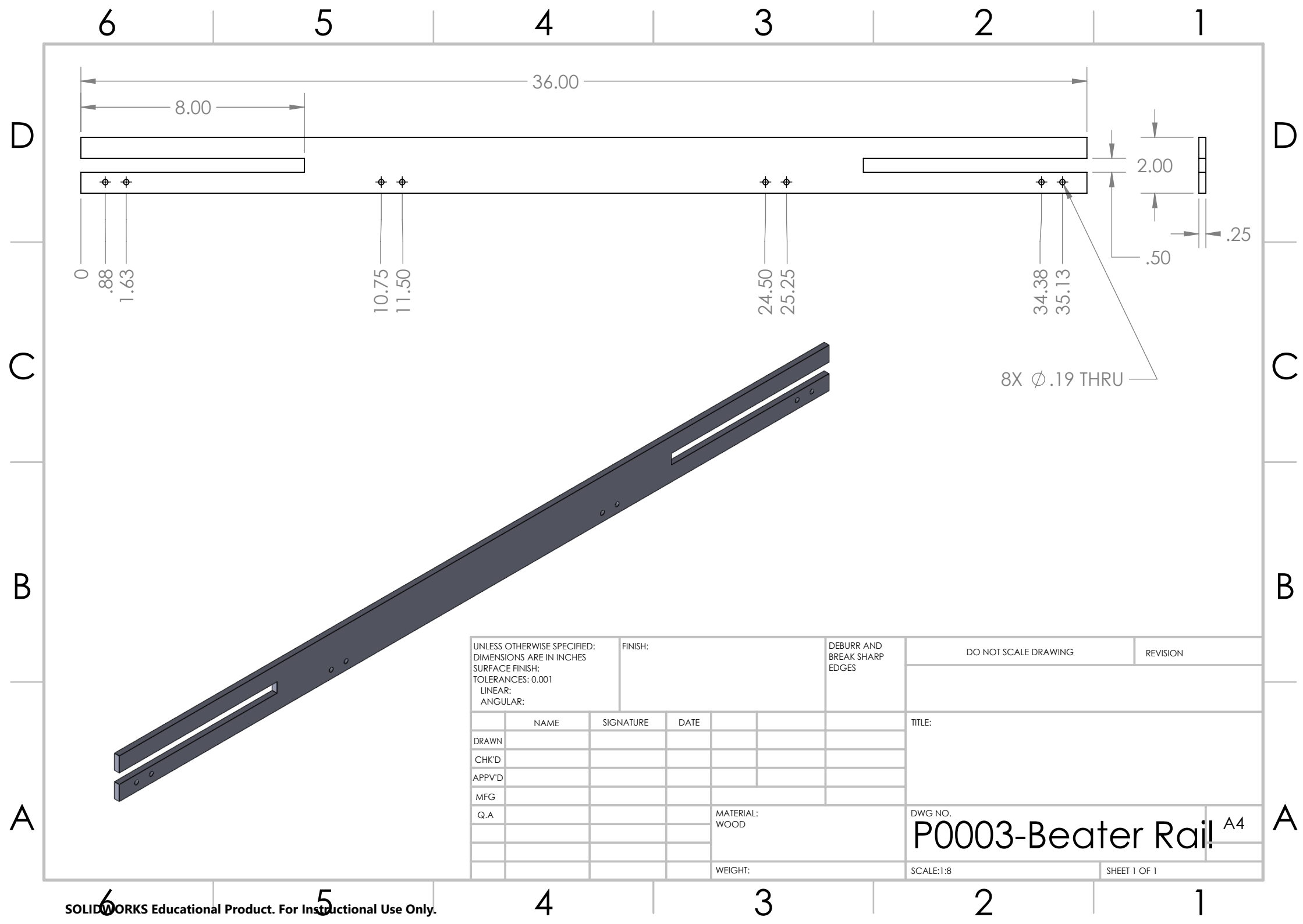
DEBURR AND
BREAK SHARP
EDGES

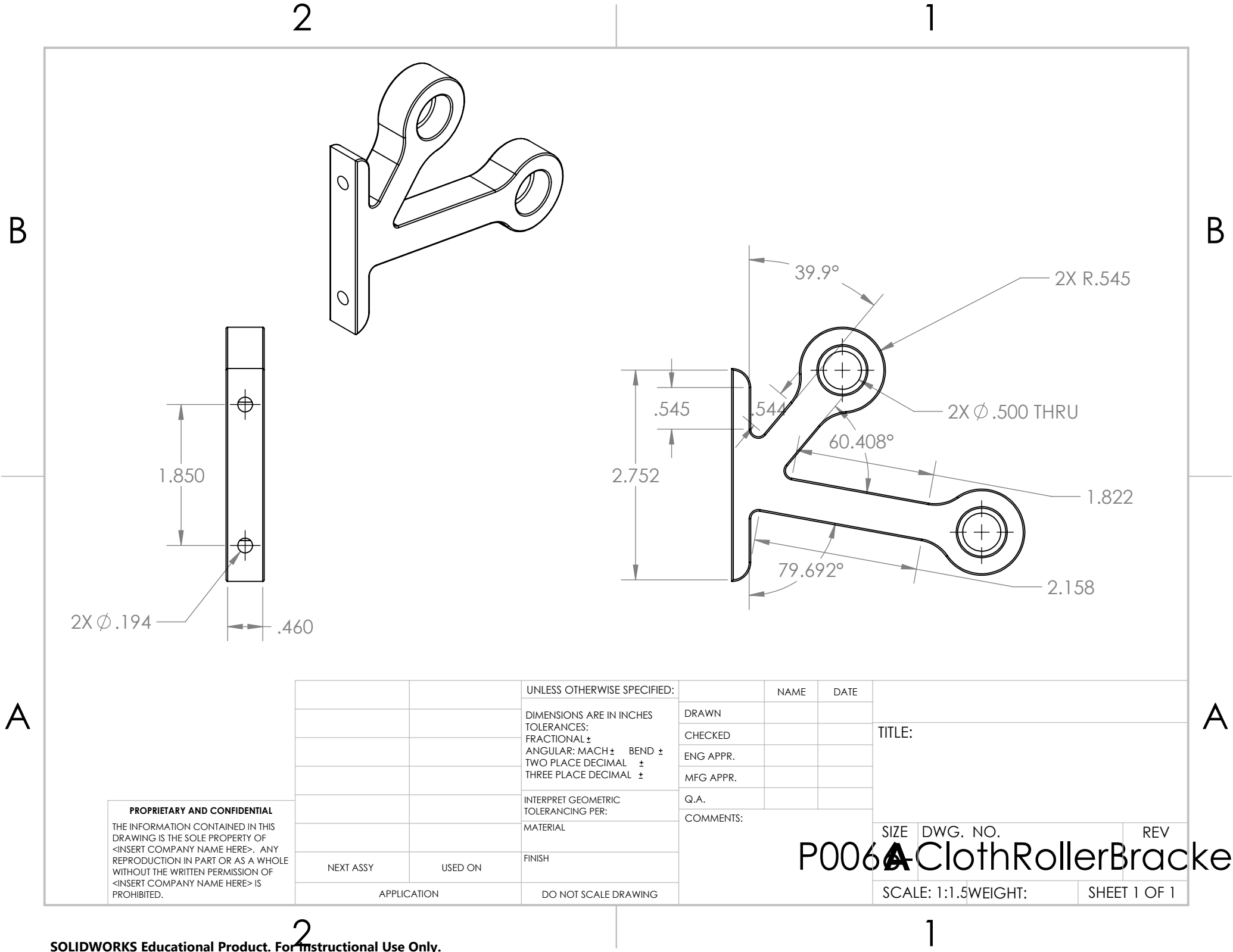
DO NOT SCALE DRAWING

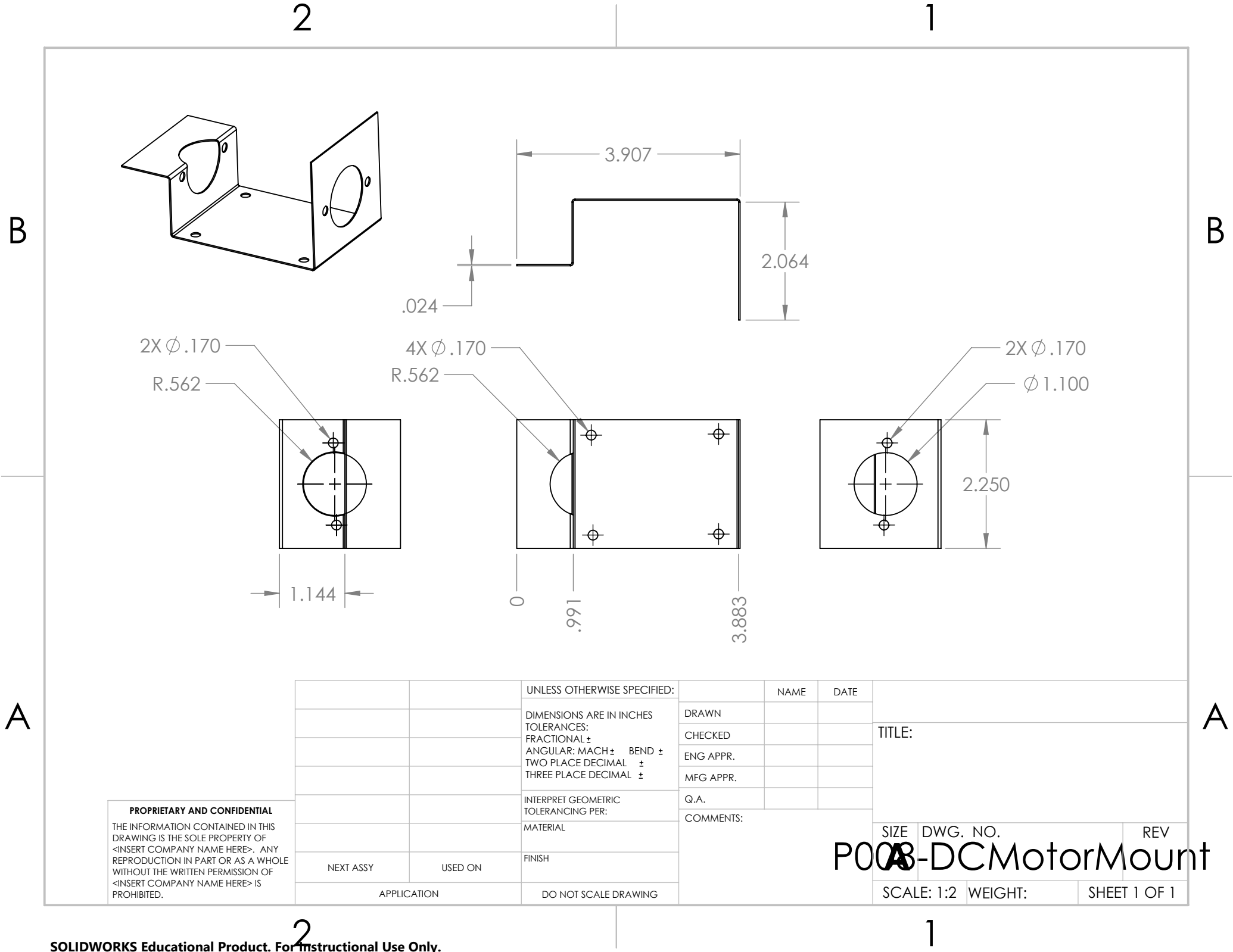
REVISION

	NAME	SIGNATURE	DATE			
DRAWN						
CHK'D						
APPV'D						
MFG						
Q.A						

TITLE:	
DWG NO.	
SCALE:1:1	
SHEET 1 OF 1	







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			UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE:		
			DIMENSIONS ARE IN INCHES	DRAWN					
			TOLERANCES:	CHECKED					
			FRACTIONAL ±	ENG APPR.					
			ANGULAR: MACH ± BEND ±	MFG APPR.					
			TWO PLACE DECIMAL ±				SIZE DWG. NO. REV <div>P0008-DCMotorMount</div>		
			THREE PLACE DECIMAL ±						
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			MATERIAL	COMMENTS:					
	NEXT ASSY	USED ON	FINISH						
	APPLICATION		DO NOT SCALE DRAWING						

LOOM TEAM BUDGET							
Item	Link	Vendor	Catalog/Part/ASIN Number	Cost Per Item	Qty.	Tax + Shipping	Total Cost
Rigid Heddles, Size: 32 in, Dent: 7.5 in	https://smile.amazon	Amazon	N/A	\$49.50	1	\$18.94	\$68.44
Steel rod	N/A	Home Depot	887480015874	\$6.38	2	\$1.02	\$13.78
Aluminum rod	N/A	Home Depot	887480016475	\$4.98	1	\$0.40	\$5.38
20 R4-2RS ball bearings for 1/4" shaft	https://smile.amazon	Amazon	N/A	\$9.99	1	\$0.95	\$10.94
Rug Traction 2-1/2 in. x 25 ft. Anti-Slip Rubber Tape	N/A	Home Depot	075378505457	\$10.97	1	\$0.88	\$11.85
1/4" x 5.5" x 24" Poplar Board	N/A	Home Depot	728927310414	\$5.02	1	\$0.40	\$5.42
1"x 2" x 4" Poplar Board	N/A	Lowes	1075	\$6.74	1	\$0.54	\$7.28
1/4" x 3" x 4" Poplar Board	N/A	Lowes	1221	\$5.67	1	\$0.45	\$6.12
High-Load Oil-Embedded 863 Bronze Sleeve Bearing	https://www.mcmast	McMaster	2938T1	\$0.61	24	\$9.07	\$23.71
			Actual Project Spending (max \$300)				\$152.92