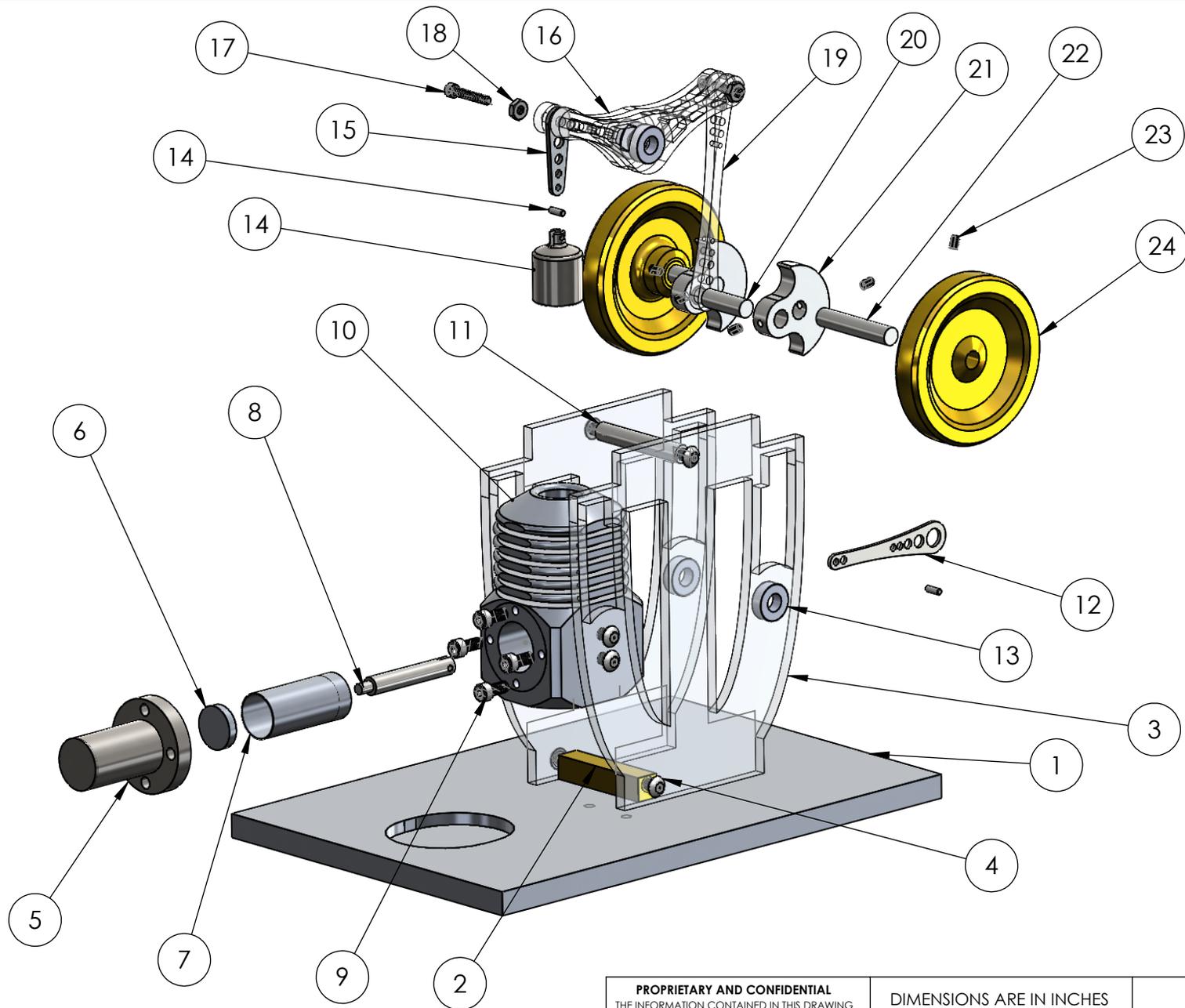


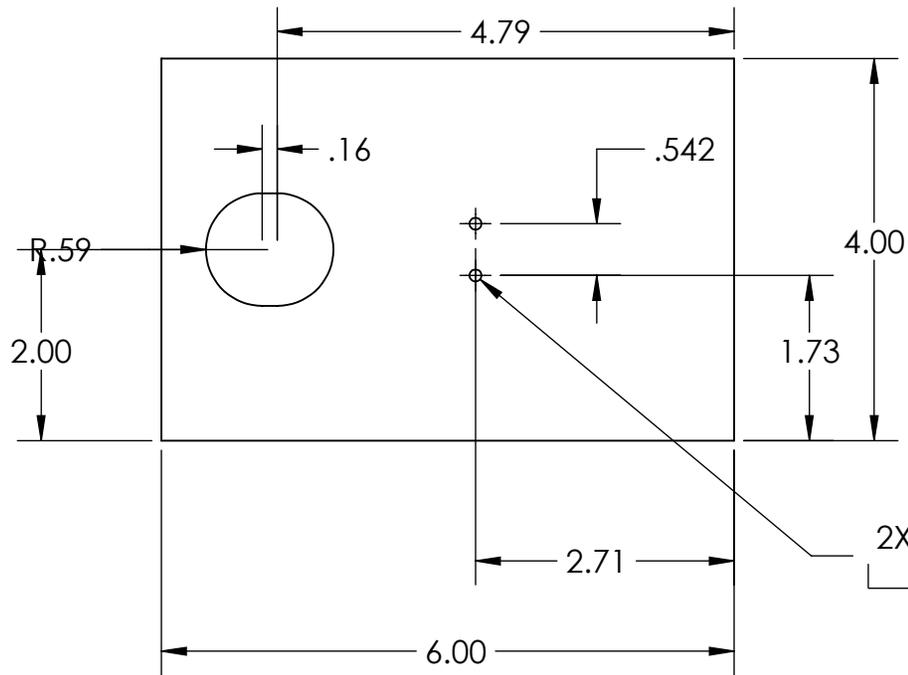
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO, ME DEPARTMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO, ME DEPARTMENT IS PROHIBITED.		DIMENSIONS ARE IN INCHES THIRD ANGLE PROJECTION 		Boehm Redesign	
DEFAULT TOLERANCES: LINEAR: X. ± .25 X.X ± .1 X.XX ± .01 X.XXX ± .002 ANGULAR: X. ± 2 X.X ± 1 X.XX ± 0 30'		DESCRIPTION: Final Assembly Boehm Redesign Stirling CHECKED BY: XXXXXXXXXX DRAWN BY: FILE NAME: Redesign Sterling.SLDPRT		MATERIAL: DATE: XX/XX/XX DATE: 10/4/2018 SCALE: 1:2	
				UNIVERSITY OF IDAHO ME DEPARTMENT	
				PART #:	QTY: 1
				SHEET: 1 OF 19	



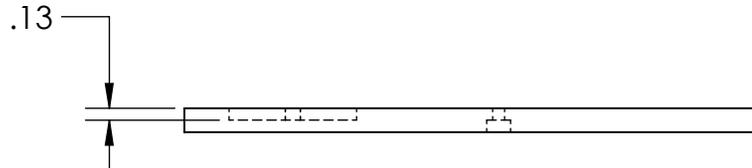
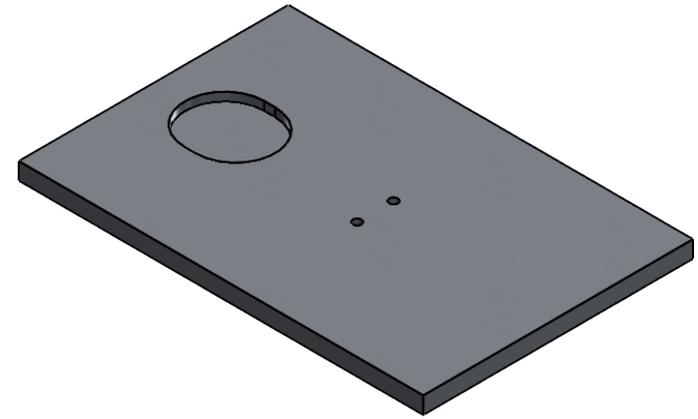
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO, ME DEPARTMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO, ME DEPARTMENT IS PROHIBITED.		DIMENSIONS ARE IN INCHES THIRD ANGLE PROJECTION		Boehm Redesign	
DEFAULT TOLERANCES: LINEAR: X. ± .25 X.X ± .1 X.XX ± .01 X.XXX ± .002		MATERIAL:			
DESCRIPTION: Final Assembly Boehm Redesign Stirling		CHECKED BY: XXXXXXXXXX		DATE: XX/XX/XX	
DRAWN BY:		DATE: 10/4/2018		PART #:	
FILE NAME: Redesign Sterling.SLDPRT		SCALE: 1:5		QTY: 1 SHEET: 2 OF 19	

ITEM NO.	PART NUMBER	McMaster #	QTY.
1	ReDesignBase		1
2	ReDesign Bottom Connecting Hexagon		1
3	GAH		2
4	4-40x1/4 BHCS	91255A106	8
5	ReDesignHeating cylinder		1
6	ReDesign Displace Piston Cover		1
7	ReDesign Displace Piston		1
8	ReDesign piston driving arm		1
9	4-40x1/4 SHCS	91251A106	4
10	honeycomb ReDesign		1
11	ReDesign Top Lever Arm Shaft		1
12	ReDesign Smaller Crank Arm		1
13	.1875bearing		4
14	ReDesign Upper Piston		1
15	ReDesignUpper Piston Crank Arm		1
16	Acrylic Rocker Arm (laser cutter)		1
17	2-56x1/2 SHCS	91251A081	2
18	2-56 nut	90480A003	2
19	Acrylic Large Crank Arm (laser cutter)		1
20	Modified Lower Short Crank		1
21	ReDesign Crank Weights		2
22	Smaller axial larger crank		2
23	2-56x1/8 SS	91375A074	6
24	Redesign Fly Wheel		2

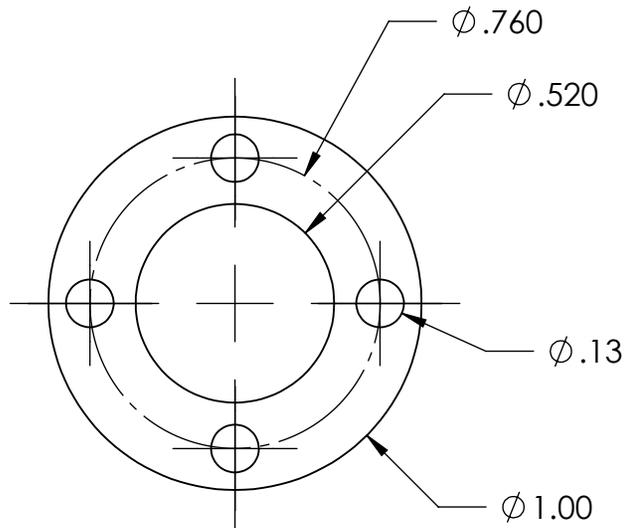
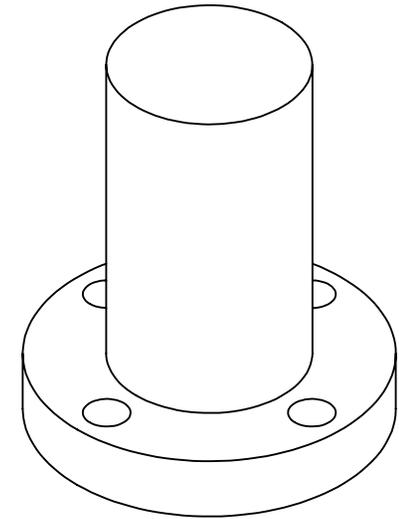
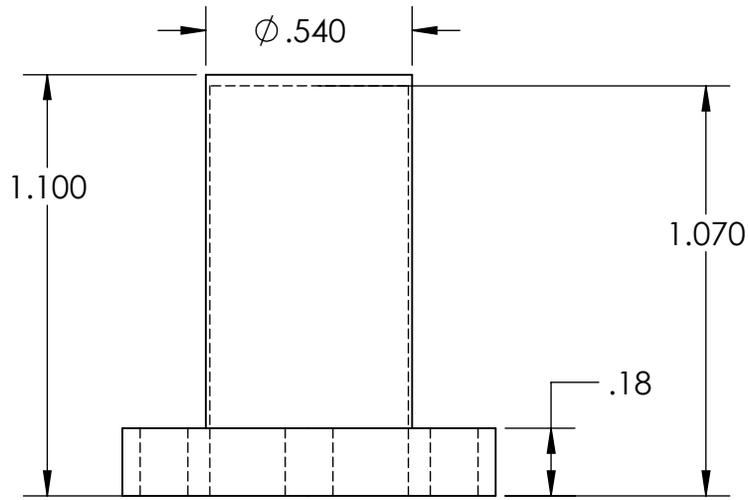
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO, ME DEPARTMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO, ME DEPARTMENT IS PROHIBITED.		DIMENSIONS ARE IN INCHES THIRD ANGLE PROJECTION 		Boehm Redesign	
DEFAULT TOLERANCES: LINEAR: X. ± .25 X.X ± .1 X.XX ± .01 X.XXX ± .002		DESCRIPTION: Final Assembly Boehm Redesign Stirling			
ANGULAR: X. ± 2 X.X ± 1 X.XX ± 0 30'		MATERIAL:		PART #:	
		CHECKED BY: XXXXXXXXXXXX		DATE: XX/XX/XX	
		DRAWN BY:		DATE: 10/4/2018	
		FILE NAME: Redesign Sterling.SLDprt		SCALE: 1:5	
				QTY: 1	
				SHEET: 3 OF 19	



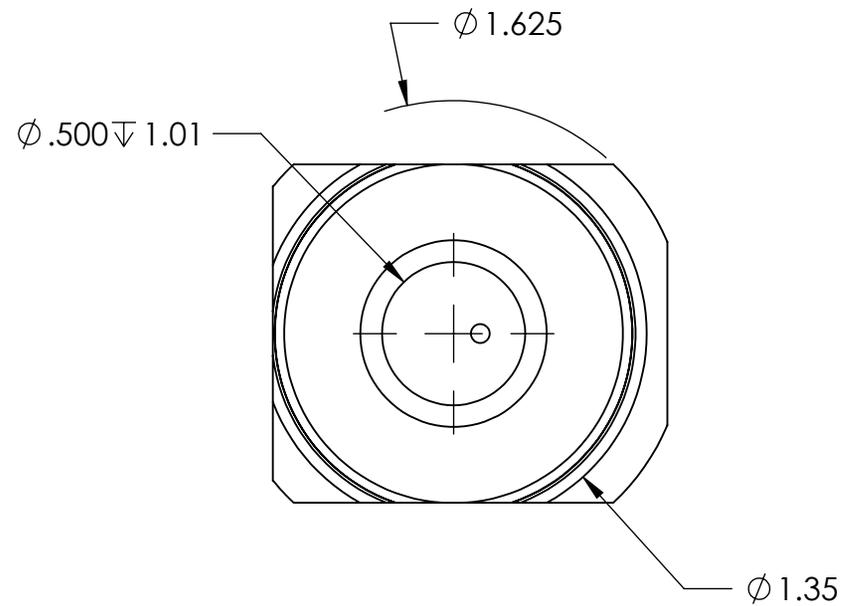
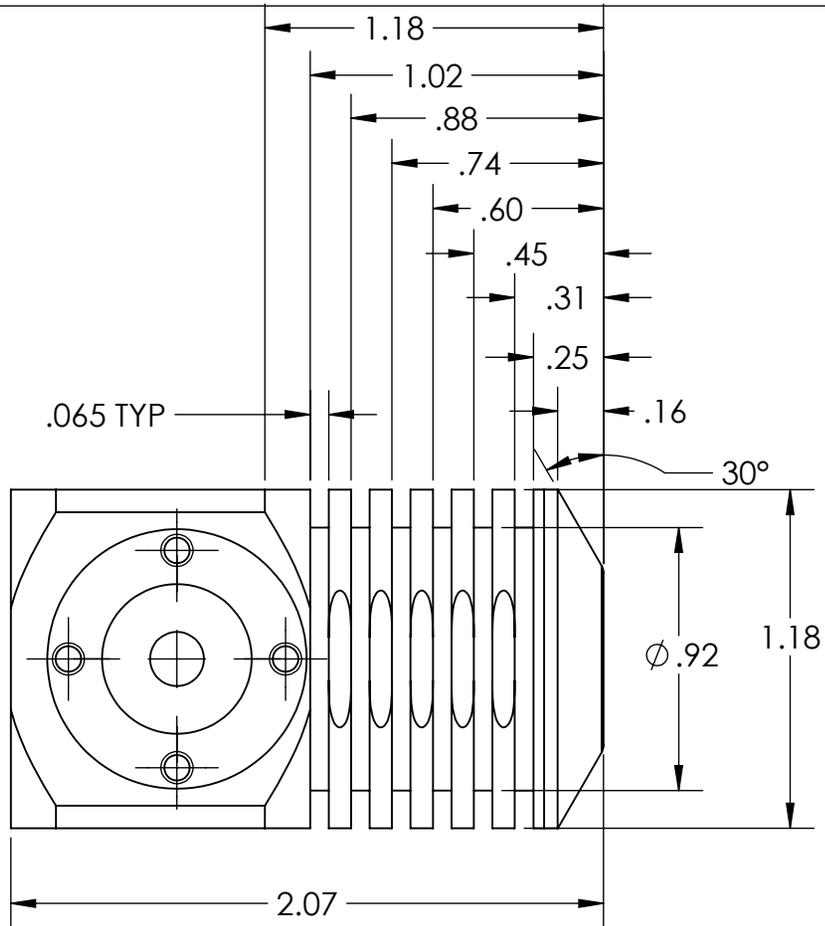
2X $\varnothing .13 \nabla$ THRU
 $\square \varnothing 0.25 \nabla 0.13$



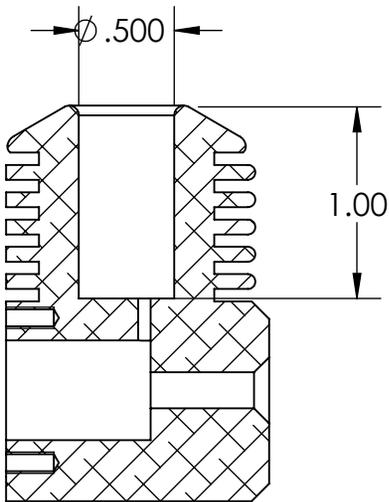
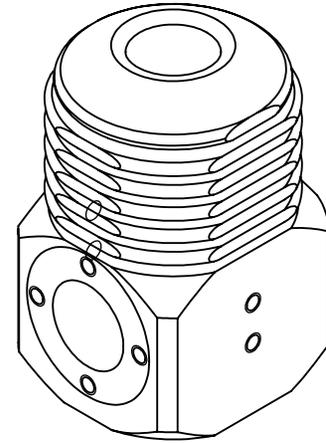
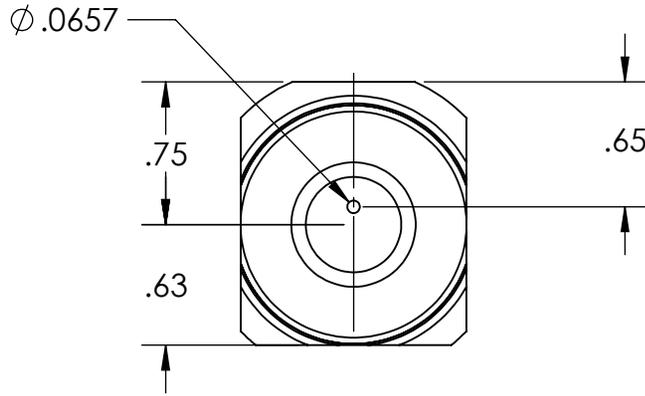
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO, ME DEPARTMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO, ME DEPARTMENT IS PROHIBITED.		DIMENSIONS ARE IN INCHES THIRD ANGLE PROJECTION		Boehm Redesign	
		MATERIAL: 6061-T6 (SS)			
DEFAULT TOLERANCES:		DESCRIPTION: Base		UNIVERSITY OF IDAHO ME DEPARTMENT	
LINEAR: X. ± .25 X.X ± .1 X.XX ± .01 X.XXX ± .002	ANGULAR: X. ± 2 X.X ± 1 X.XX ± 0 30'	CHECKED BY: XXXXXXXXXXXX	DATE: XX/XX/XX		
		DRAWN BY:	DATE: 10/3/2018	PART #:	QTY: 1
		FILE NAME: ReDesignBase.SLDPRT	SCALE: 1:2	SHEET: 4 OF 19	



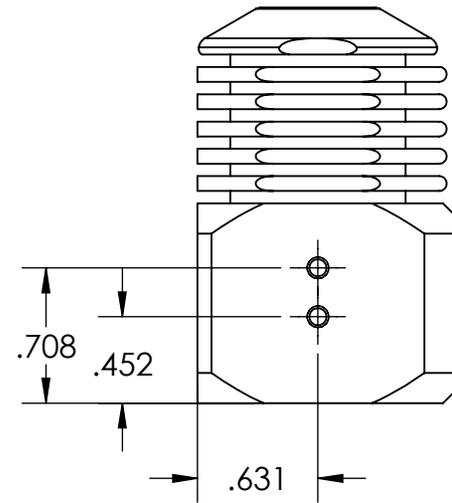
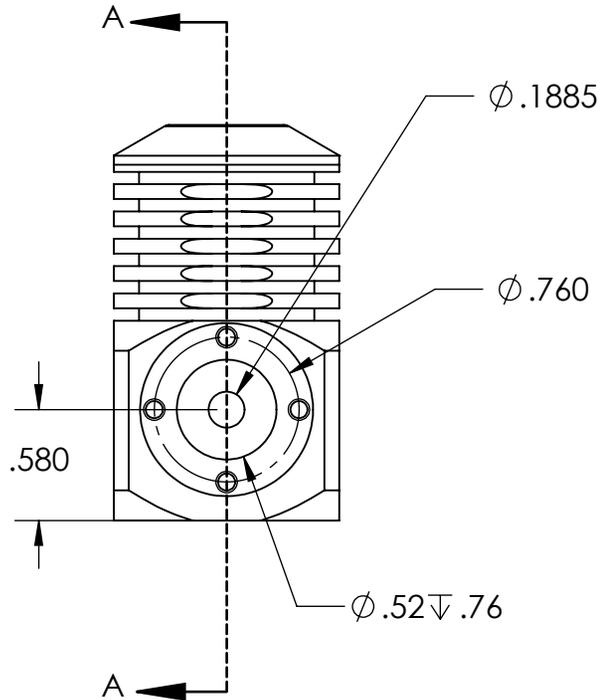
<p>PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO, ME DEPARTMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO, ME DEPARTMENT IS PROHIBITED.</p>		DIMENSIONS ARE IN INCHES THIRD ANGLE PROJECTION		<p>BOEHM REDESIGN</p>	
		MATERIAL: AISI 304			
DEFAULT TOLERANCES: LINEAR: X. ± .25 X.X ± .1 X.XX ± .01 X.XXX ± .002		DESCRIPTION: Heating Cylinder		<p>UNIVERSITY OF IDAHO ME DEPARTMENT</p>	
ANGULAR: X. ± 2 X.X ± 1 X.XX ± 0 30'		CHECKED BY: XXXXXXXXXXXX	DATE: XX/XX/XX		
		DRAWN BY:		DATE: 10/4/2018	SCALE: 2:1
		FILE NAME: ReDesignHeating cylinder.SLDPRT		SHEET: 5 OF 19	



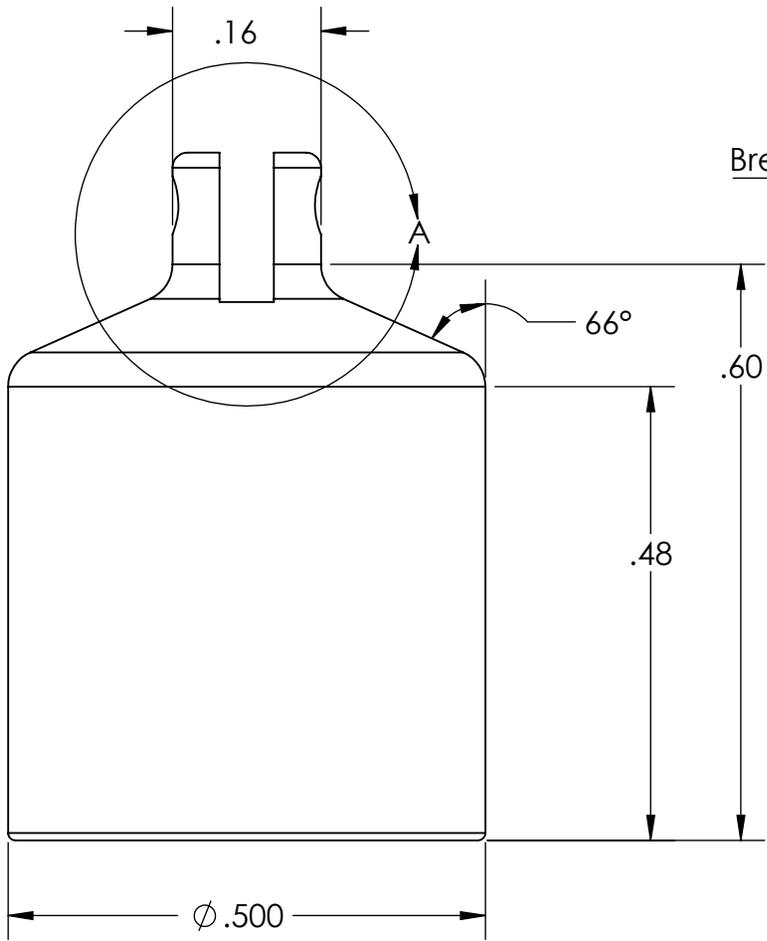
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO, ME DEPARTMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO, ME DEPARTMENT IS PROHIBITED.		DIMENSIONS ARE IN INCHES THIRD ANGLE PROJECTION 		Boehm ReDesign	
DEFAULT TOLERANCES:		DESCRIPTION: Heat Exchanger			
LINER: X. ± .25 X.X ± .1 X.XX ± .01 X.XXX ± .002	ANGULAR: X. ± 2 X.X ± 1 X.XX ± 0 30'	CHECKED BY: XXXXXXXXXX	DATE: XX/XX/XX	PART #:	QTY: 1
		MATERIAL: 6063-O		SCALE: 1:1	SHEET: 6 OF 19
		DRAWN BY:		FILE NAME: honeycomb Redesign2.SLDPR	



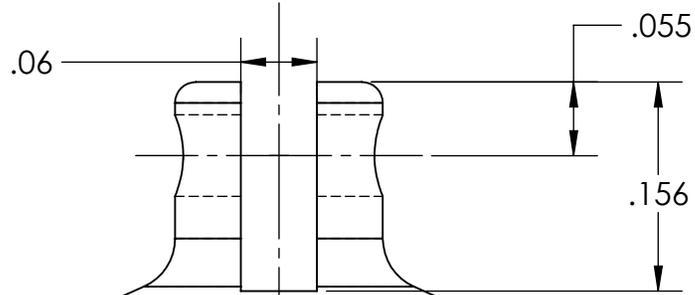
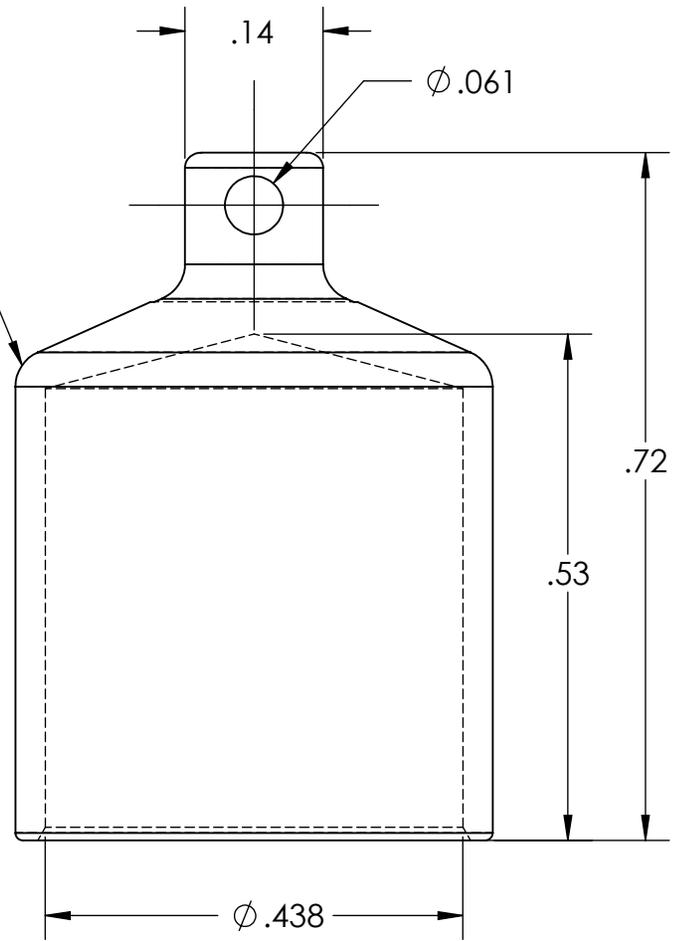
SECTION A-A



PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO, ME DEPARTMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO, ME DEPARTMENT IS PROHIBITED.		DIMENSIONS ARE IN INCHES THIRD ANGLE PROJECTION		Boehm ReDesign	
DEFAULT TOLERANCES:		MATERIAL: 6063-O			
LINEAR: X. ± .25 X.X ± .1 X.XX ± .01 X.XXX ± .002	ANGULAR: X. ± 2 X.X ± 1 X.XX ± 0 30'	DESCRIPTION: Heat Exchanger		UNIVERSITY OF IDAHO ME DEPARTMENT	
		CHECKED BY: XXXXXXXXXXXX	DATE: XX/XX/XX		
		DRAWN BY:	DATE: 10/3/2018	PART #:	QTY: 1
		FILE NAME: honeycomb Redesign2.SLDprt		SCALE: 1:1	SHEET: 7 OF 19

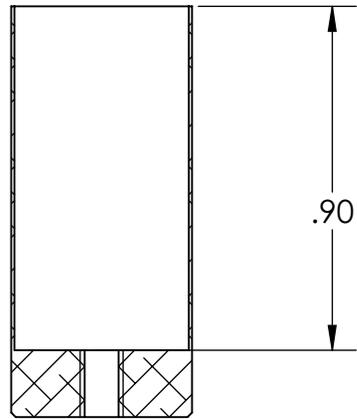
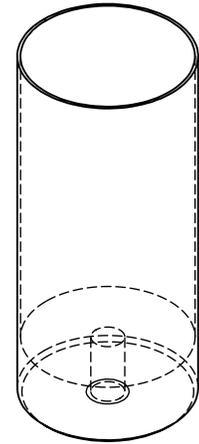
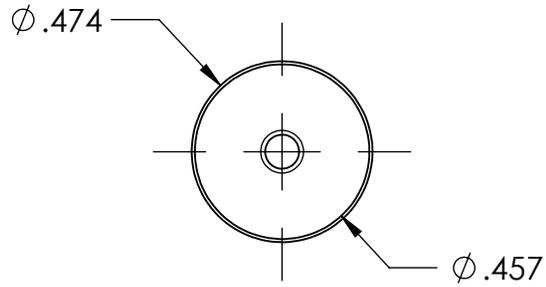


Break Edge Typ.

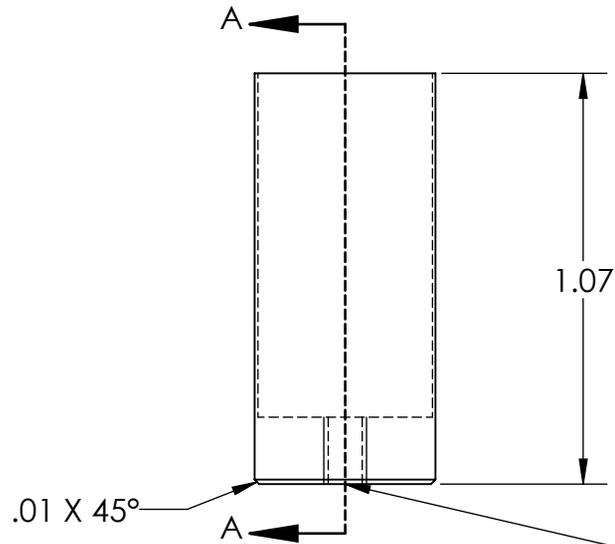


DETAIL A
SCALE 7 : 1

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO, ME DEPARTMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO, ME DEPARTMENT IS PROHIBITED.		DIMENSIONS ARE IN INCHES THIRD ANGLE PROJECTION		Boehm ReDesign	
MATERIAL: AISI 304		DESCRIPTION: Power Piston			
DEFAULT TOLERANCES:		CHECKED BY: XXXXXXXXXXXX	DATE: XX/XX/XX	UNIVERSITY OF IDAHO ME DEPARTMENT	
LINEAR: X. ± .25 X.X ± .1 X.XX ± .01 X.XXX ± .002	ANGULAR: X. ± 2 X.X ± 1 X.XX ± 0 30'	DRAWN BY:	DATE: 10/3/2018		
FILE NAME: ReDesignupper piston.SLDprt		SCALE: 2:1		SHEET: 8 OF 19	

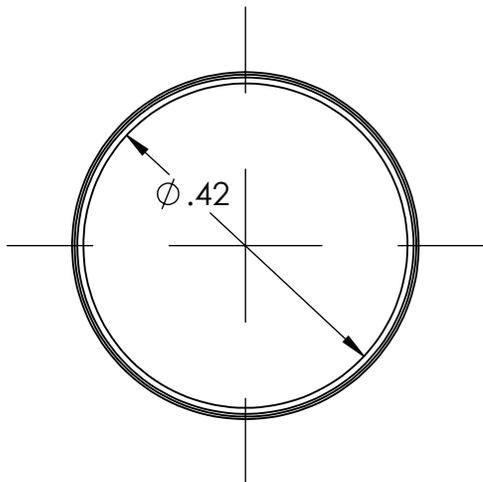
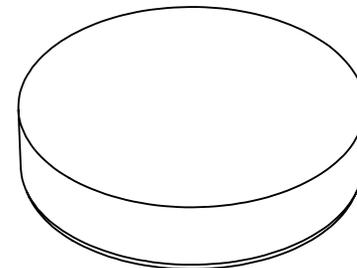
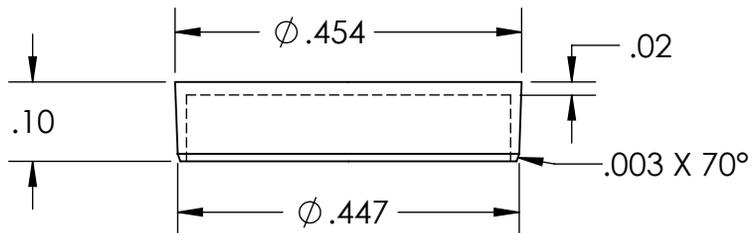


SECTION A-A

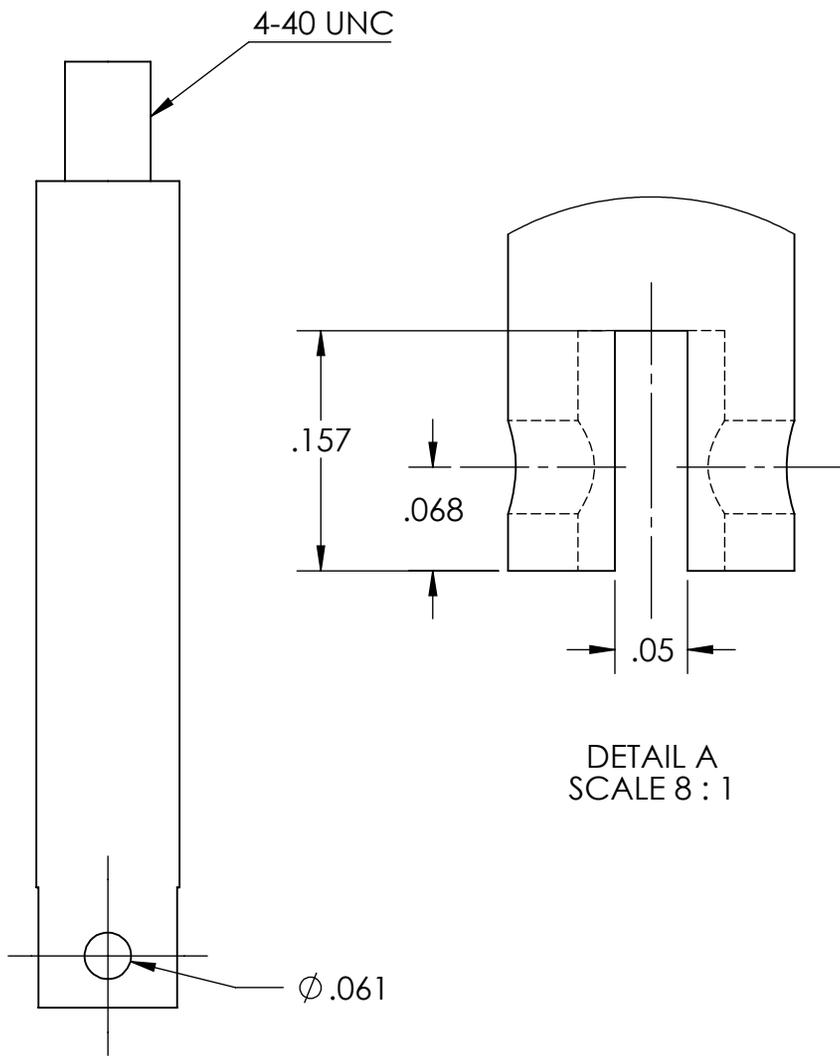
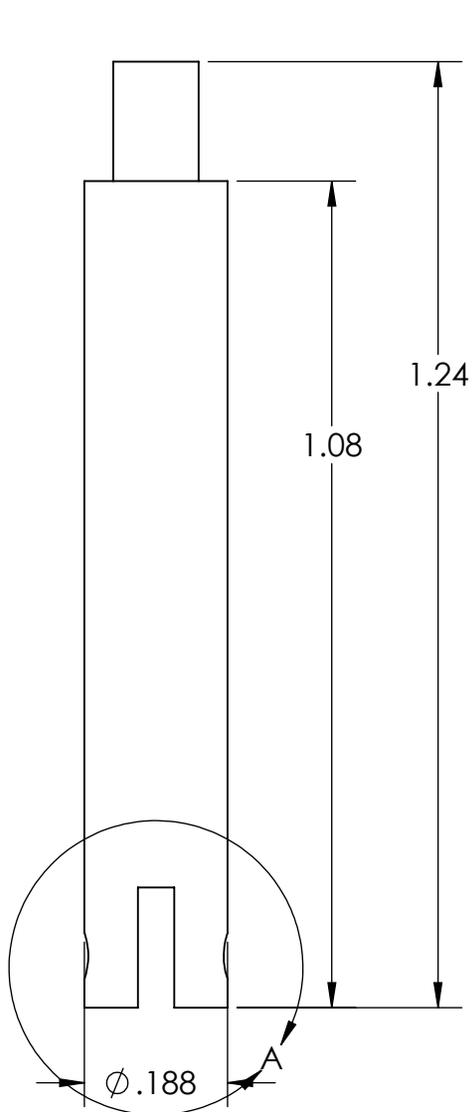


#4-40 Tapped Hole

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO, ME DEPARTMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO, ME DEPARTMENT IS PROHIBITED.		DIMENSIONS ARE IN INCHES THIRD ANGLE PROJECTION		BOEHM REDESIGN	
MATERIAL: 6061-T6 (SS)		DESCRIPTION: Displace Piston		UNIVERSITY OF IDAHO ME DEPARTMENT	
DEFAULT TOLERANCES: LINEAR: X. ± .25 X.X ± .1 X.XX ± .01 X.XXX ± .002 ANGULAR: X. ± 2 X.X ± 1 X.XX ± 0 30'		CHECKED BY: XXXXXXXXXXXX	DATE: XX/XX/XX	PART #:	QTY: 1
DRAWN BY:		DATE: 10/4/2018	SCALE: 2:1		SHEET: 9 OF 19
FILE NAME: ReDesignDisplace Piston.SLDprt					

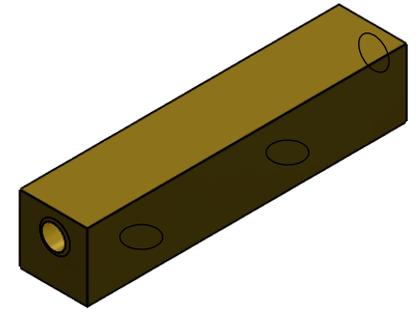


PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO, ME DEPARTMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO, ME DEPARTMENT IS PROHIBITED.		DIMENSIONS ARE IN INCHES THIRD ANGLE PROJECTION		BOEHM REDESIGN	
DEFAULT TOLERANCES: LINEAR: X. $\pm .25$ X.X $\pm .1$ X.XX $\pm .01$ X.XXX $\pm .002$		DESCRIPTION: Displace Piston Cover			
ANGULAR: X. ± 2 X.X ± 1 X.XX ± 0.30		MATERIAL: 6061-T6 (SS)		PART #:	
CHECKED BY: XXXXXXXXXXXX		DATE: XX/XX/XX		QTY: 1	
DRAWN BY:		DATE: 10/3/2018		SCALE: 4:1	
FILE NAME: ReDesignDisplace Piston Cover.SLDPRT		SCALE: 4:1		SHEET: 10 OF 19	

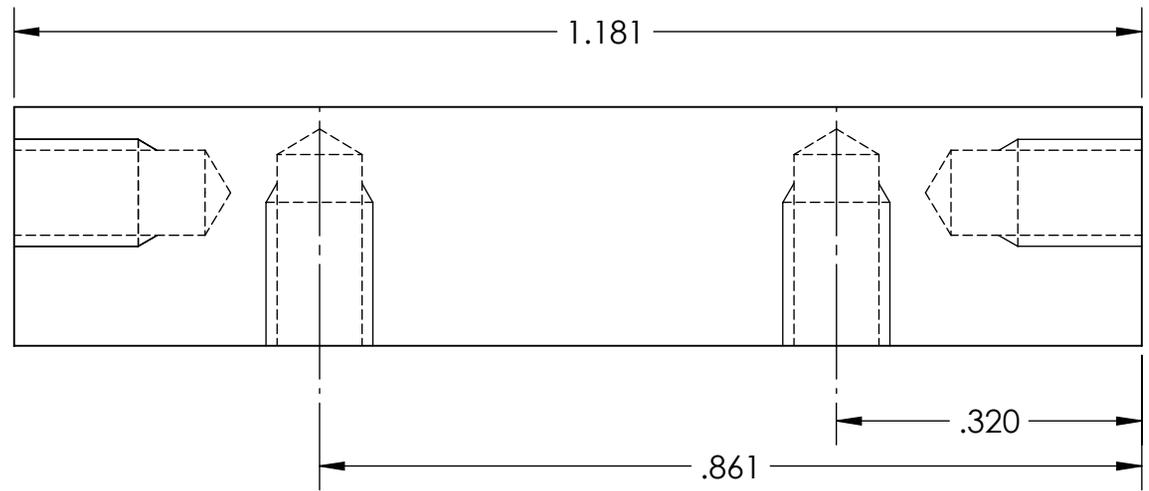
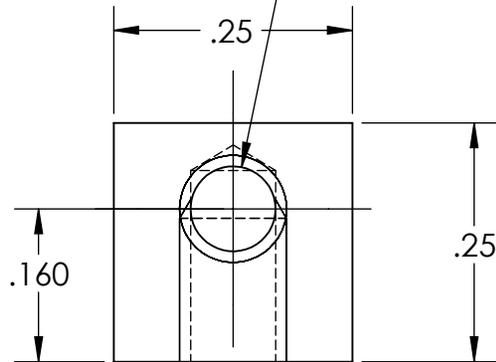


DETAIL A
SCALE 8 : 1

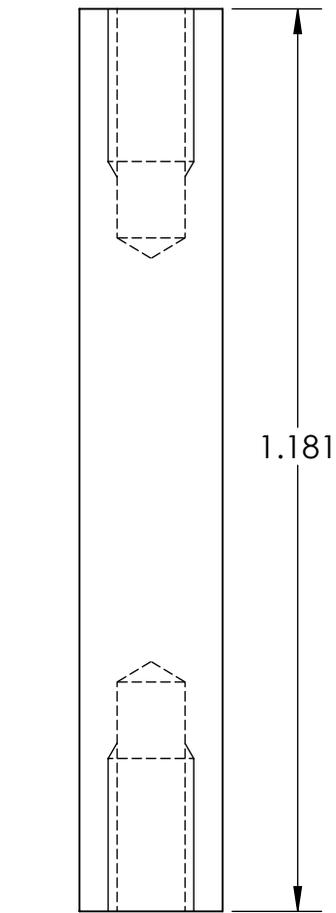
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO, ME DEPARTMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO, ME DEPARTMENT IS PROHIBITED.		DIMENSIONS ARE IN INCHES THIRD ANGLE PROJECTION		Boehm ReDesign	
DEFAULT TOLERANCES: LINEAR: X. ± .25 X.X ± .1 X.XX ± .01 X.XXX ± .002		MATERIAL: Plain Carbon Steel			
DESCRIPTION: Driving Arm for Displacement Piston		CHECKED BY: XXXXXXXXXXXX		DATE: XX/XX/XX	
DRAWN BY:		DATE: 10/3/2018		PART #:	
FILE NAME: ReDesignpiston driving arm.SLDprt		SCALE: 2:1		QTY: 1	
				SHEET: 11 OF 19	



4X ϕ .089 ∇ .20
 4-40 UNC ∇ .13



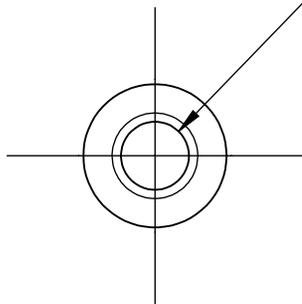
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO, ME DEPARTMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO, ME DEPARTMENT IS PROHIBITED.		DIMENSIONS ARE IN INCHES THIRD ANGLE PROJECTION		Boehm ReDesign	
MATERIAL: Brass		DESCRIPTION: Connecting Spacer		UNIVERSITY OF IDAHO ME DEPARTMENT	
DEFAULT TOLERANCES: LINEAR: X. \pm .25 X.X \pm .1 X.XX \pm .01 X.XXX \pm .002 ANGULAR: X. \pm 2 X.X \pm 1 X.XX \pm 0 30'		CHECKED BY: XXXXXXXXXXXX DATE: XX/XX/XX		PART #: _____ QTY: 1	
DRAWN BY: _____ DATE: 10/3/2018		FILE NAME: ReDesignBottom Connecting Hexagon		SHEET: 12 OF 19	



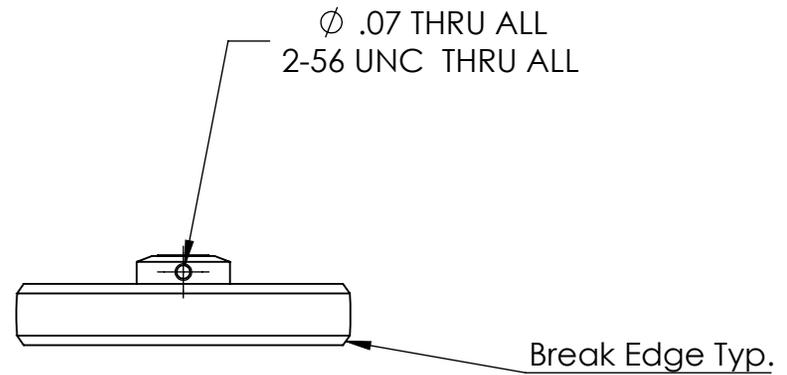
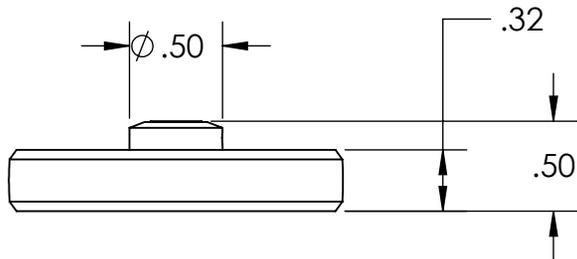
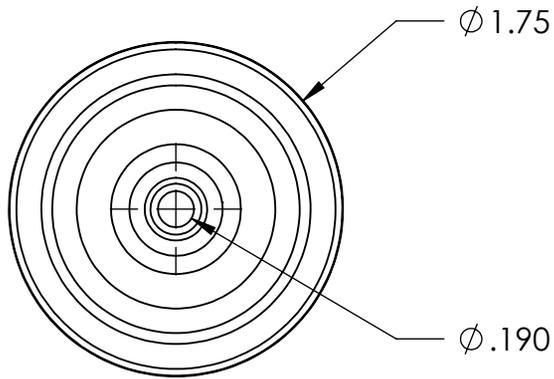
1.181

$\phi .188$

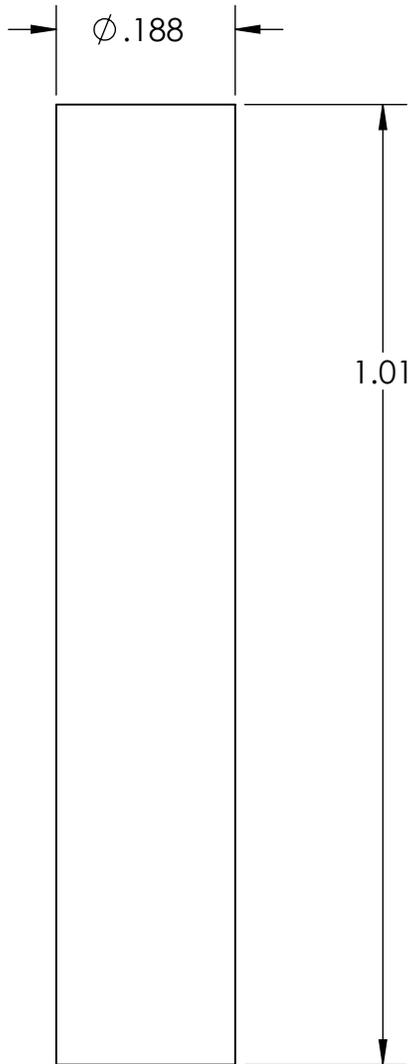
2X $\phi .089 \nabla .30$
 4-40 UNC $\nabla .20$



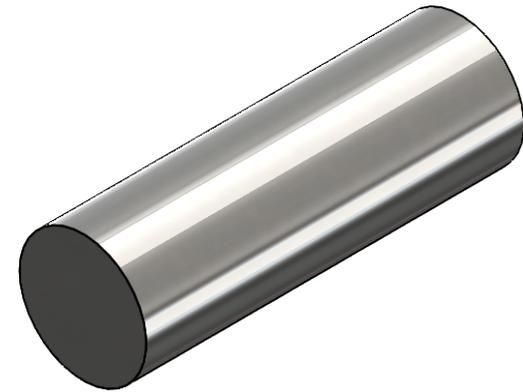
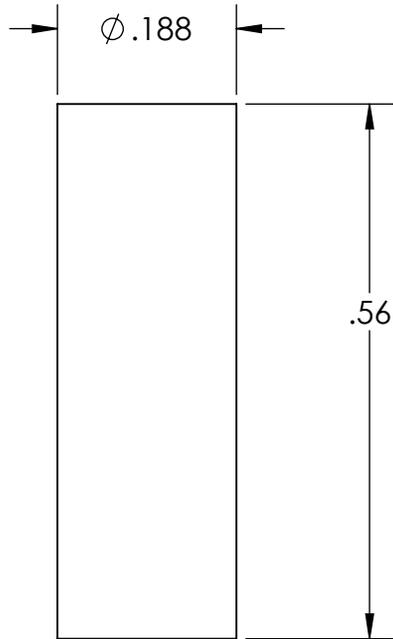
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO, ME DEPARTMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO, ME DEPARTMENT IS PROHIBITED.		DIMENSIONS ARE IN INCHES THIRD ANGLE PROJECTION		Boehm Redesign	
DEFAULT TOLERANCES: LINEAR: X. $\pm .25$ X.X $\pm .1$ X.XX $\pm .01$ X.XXX $\pm .002$		DESCRIPTION: Rocker Arm Shaft			
ANGULAR: X. ± 2 X.X ± 1 X.XX $\pm 0.30'$		CHECKED BY: XXXXXXXXXXXX	DATE: XX/XX/XX	PART #:	QTY: 1
MATERIAL: Plain Carbon Steel		DRAWN BY:		DATE: 10/4/2018	SCALE: 2:1
FILE NAME: ReDesignTop Lever Arm Shaft.SLDPRT				SHEET: 13 OF 19	



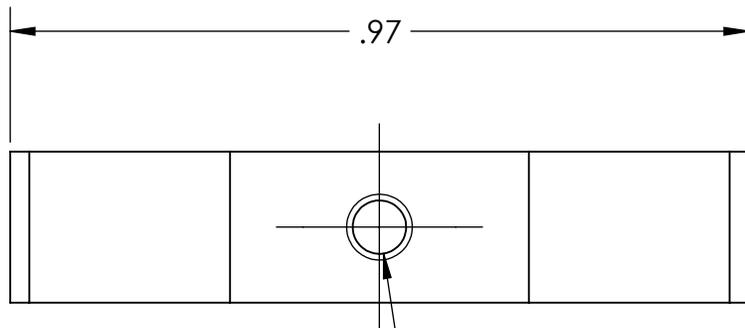
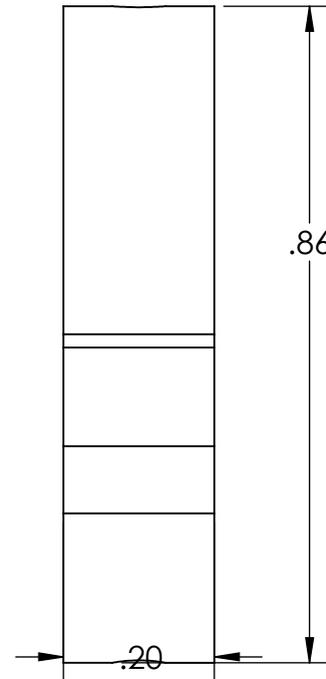
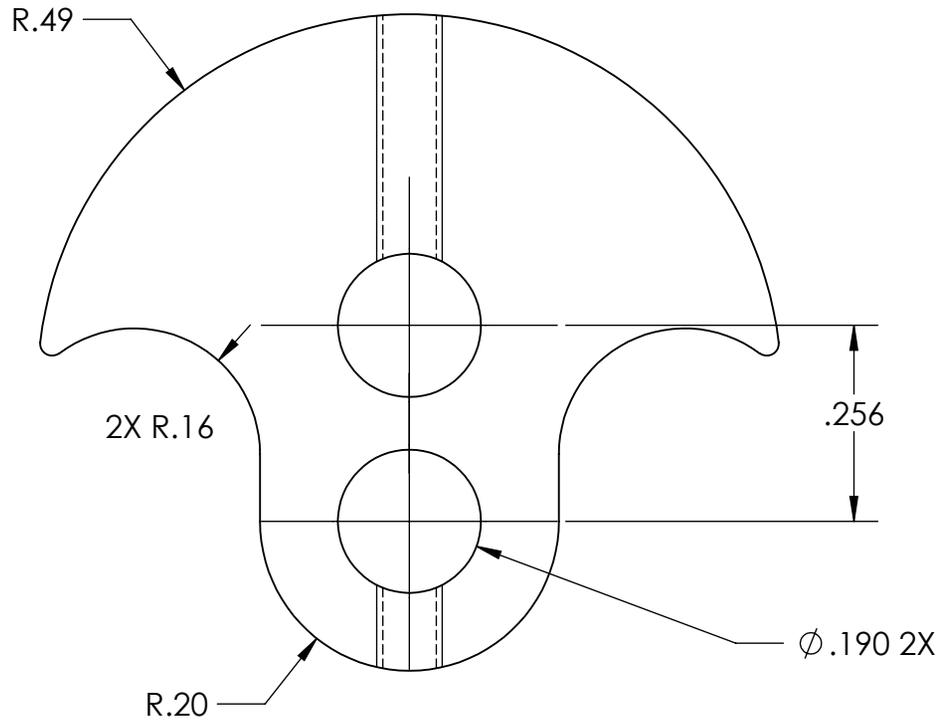
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO, ME DEPARTMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO, ME DEPARTMENT IS PROHIBITED.		DIMENSIONS ARE IN INCHES THIRD ANGLE PROJECTION 		Boehm ReDesign	
DEFAULT TOLERANCES:		MATERIAL: Brass			
DESCRIPTION: Fly Wheel		UNIVERSITY OF IDAHO ME DEPARTMENT		PART #: _____ QTY: 2	
LINEAR: X. ± .25 X.X ± .1 X.XX ± .01 X.XXX ± .002	ANGULAR: X. ± 2 X.X ± 1 X.XX ± 0 30'	CHECKED BY: XXXXXXXXXXXX	DATE: XX/XX/XX		
		DRAWN BY: _____ DATE: 10/3/2018			
		FILE NAME: ReDesignflywheel.SLDPRT			



PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO, ME DEPARTMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO, ME DEPARTMENT IS PROHIBITED.		DIMENSIONS ARE IN INCHES THIRD ANGLE PROJECTION 		Boehm ReDesign	
DEFAULT TOLERANCES: LINEAR: X. ± .25 X.X ± .1 X.XX ± .01 X.XXX ± .002		MATERIAL: Plain Carbon Steel			
ANGULAR: X. ± 2 X.X ± 1 X.XX ± 0 30'		DESCRIPTION: Connects Crank Weight to Fly Wheel		PART #:	QTY: 2
CHECKED BY: XXXXXXXXXXXX		DATE: XX/XX/XX		SCALE: 2:1	SHEET: 15 OF 19
DRAWN BY:		DATE: 10/3/2018		FILE NAME: Smaller axial larger crank.SLDPRT	

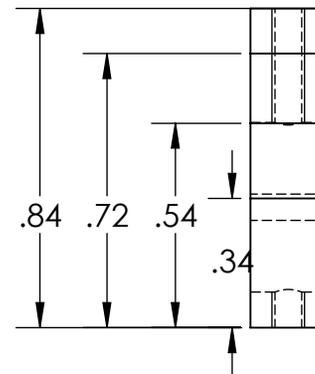
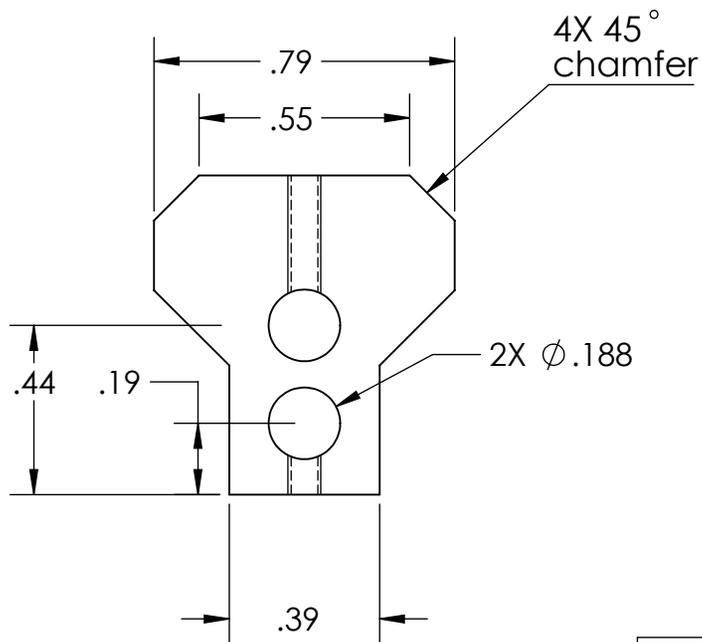
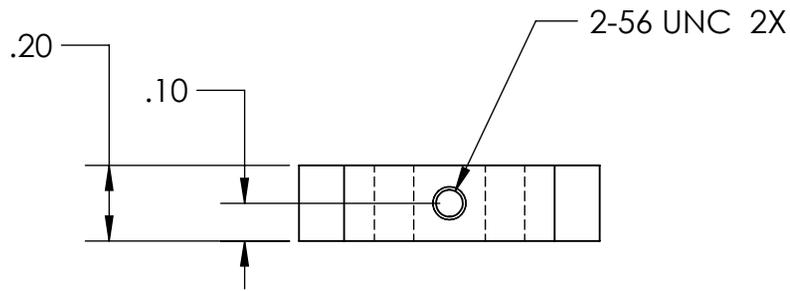


PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO, ME DEPARTMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO, ME DEPARTMENT IS PROHIBITED.		DIMENSIONS ARE IN INCHES THIRD ANGLE PROJECTION 		Boehm ReDesign	
		MATERIAL: Plain Carbon Steel			
DEFAULT TOLERANCES:		DESCRIPTION: Lower Short Crank		UNIVERSITY OF IDAHO ME DEPARTMENT	
LINEAR: X. \pm .25 X.X \pm .1 X.XX \pm .01 X.XXX \pm .002	ANGULAR: X. \pm 2 X.X \pm 1 X.XX \pm 0 30'	CHECKED BY: XXXXXXXXXXXX	DATE: XX/XX/XX		
		DRAWN BY:	DATE: 10/3/2018	PART #:	QTY: 1
		FILE NAME: Modified lower short crank.SLDprt	SCALE: 5:1	SHEET: 16 OF 19	

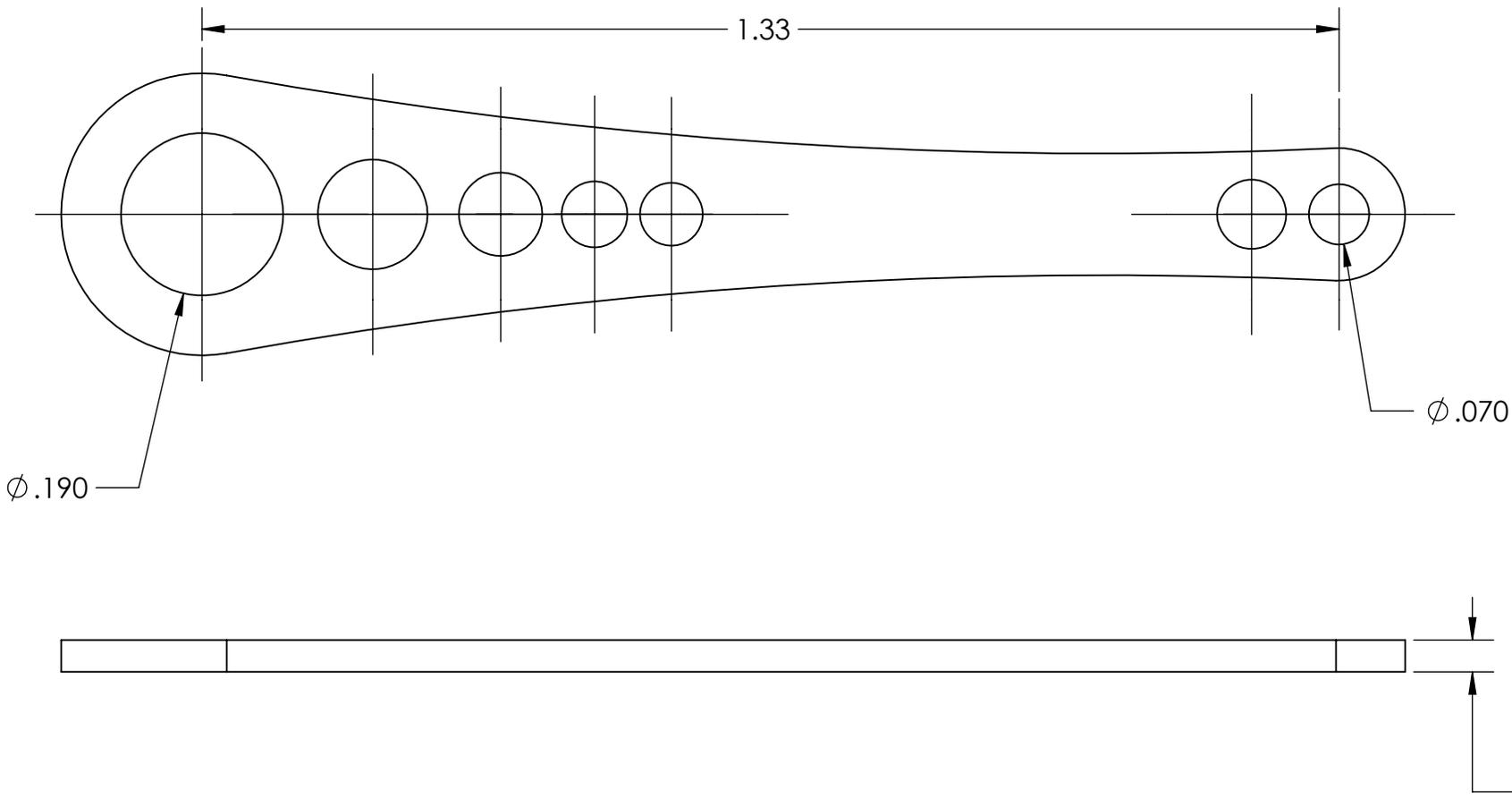
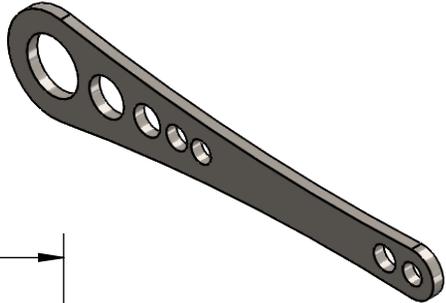


2X $\phi .07$ THRU
2-56 UNC THRU

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO, ME DEPARTMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO, ME DEPARTMENT IS PROHIBITED.		DIMENSIONS ARE IN INCHES THIRD ANGLE PROJECTION		Boehm Redesign	
		MATERIAL: Plain Carbon Steel			
DEFAULT TOLERANCES: LINEAR: X. $\pm .25$ X.X $\pm .1$ X.XX $\pm .01$ X.XXX $\pm .002$		DESCRIPTION: Crank Weight		UNIVERSITY OF IDAHO ME DEPARTMENT	
ANGULAR: X. ± 2 X.X ± 1 X.XX $\pm 0.30'$		CHECKED BY: XXXXXXXXXXXX	DATE: XX/XX/XX		
		DRAWN BY:		DATE: 10/4/2018	SCALE: 2:1
		FILE NAME: ReDesignCrank Weights.SLDPRT		SHEET: 17 OF 19	



PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO, ME DEPARTMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO, ME DEPARTMENT IS PROHIBITED.		DIMENSIONS ARE IN INCHES THIRD ANGLE PROJECTION		Boehm Redesign	
		MATERIAL: Plain Carbon Steel			
DEFAULT TOLERANCES: LINEAR: X. ± .25 X.X ± .1 X.XX ± .01 X.XXX ± .002		DESCRIPTION: Crank Weight		UNIVERSITY OF IDAHO ME DEPARTMENT	
ANGULAR: X. ± 2 X.X ± 1 X.XX ± 0 30'		CHECKED BY: XXXXXXXXXXXX	DATE: XX/XX/XX		
FILE NAME: crank weight 2.SLDPRT		DATE: 10/3/2018		SCALE: 2:1	SHEET: 18 OF 19



PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF UNIVERSITY OF IDAHO, ME DEPARTMENT. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF UNIVERSITY OF IDAHO, ME DEPARTMENT IS PROHIBITED.		DIMENSIONS ARE IN INCHES THIRD ANGLE PROJECTION		Boehm Redesign	
DEFAULT TOLERANCES: LINEAR: X. ± .25 X.X ± .1 X.XX ± .01 X.XXX ± .002		MATERIAL:			
ANGULAR: X. ± 2 X.X ± 1 X.XX ± 0 30'		DESCRIPTION: Final Assembly Boehm Redesign Stirling		UNIVERSITY OF IDAHO ME DEPARTMENT	
CHECKED BY: XXXXXXXXXX		DATE: XX/XX/XX			
DRAWN BY:		DATE: 10/4/2018		PART #:	QTY: 1
FILE NAME: Redesign Sterling.SLDPR		SCALE: 2:1		SHEET: 19 OF 19	