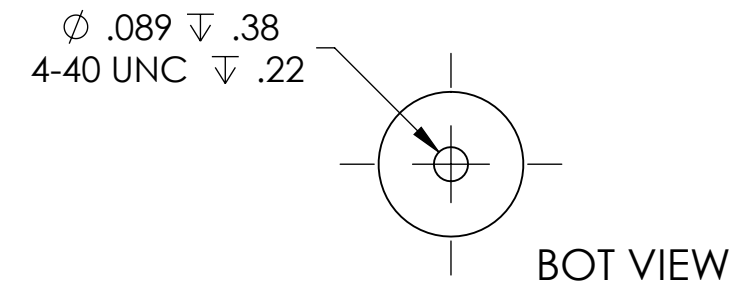
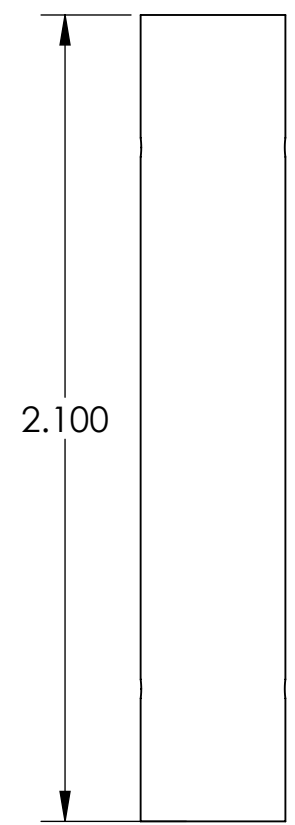
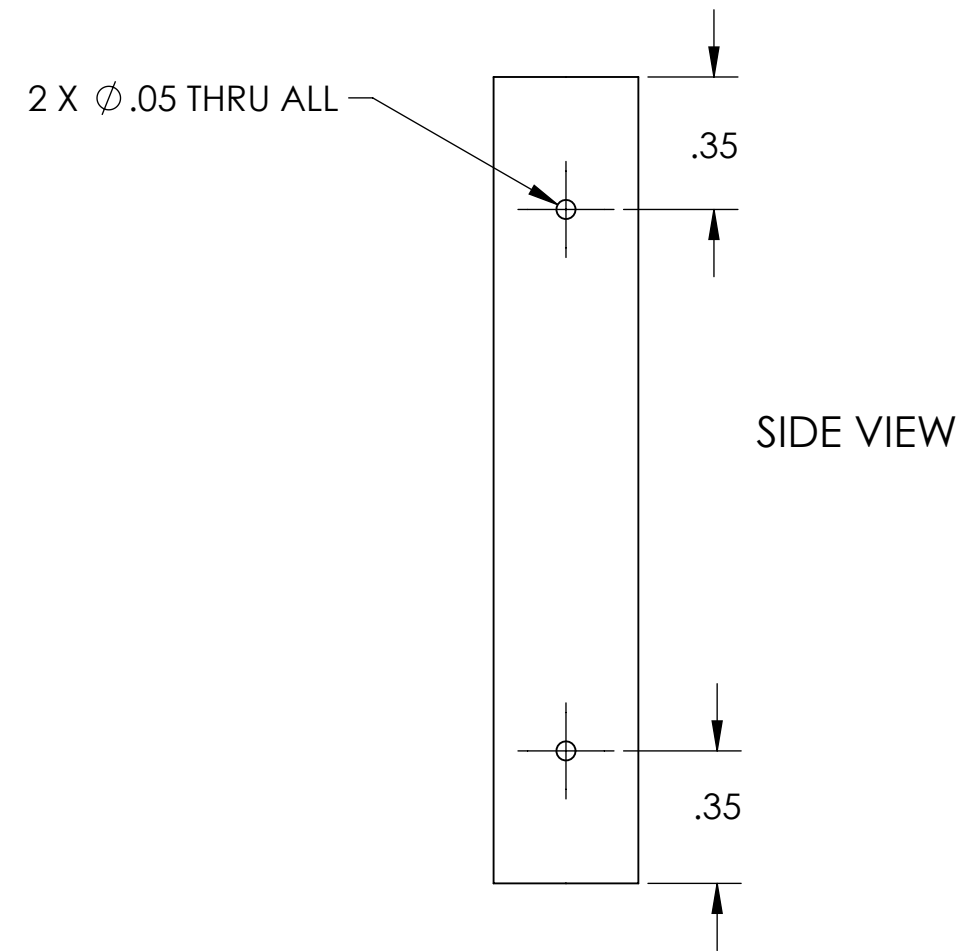
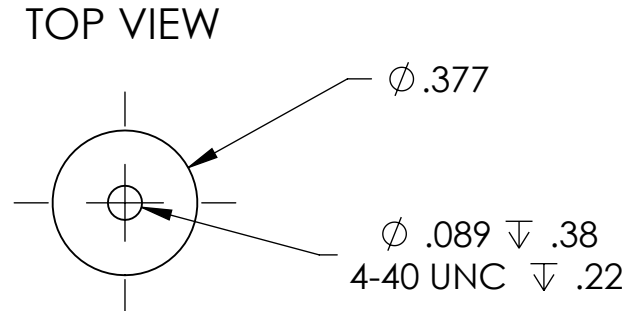
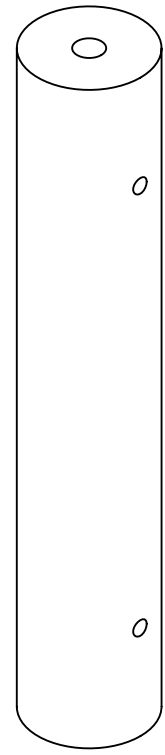


REV.	DATE	DCN #	DRAWING TREE #
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-	-	-	-



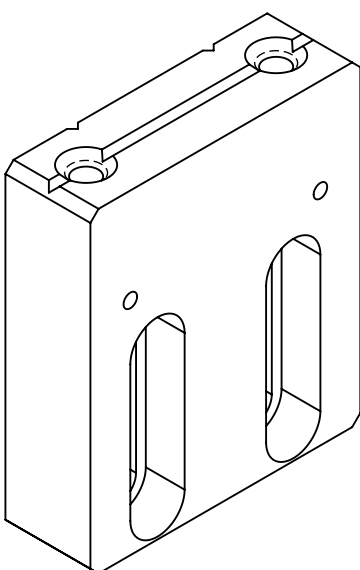
Base Post, PART PDM REV: , DRAWING PDM REV:

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)	
DIMENSIONS ARE IN TOLERANCES: .XX" ± 0.01 " .XXX" ± 0.005 " ANGULAR $\pm 0.5^\circ$	REMOVE ALL SHARP EDGES, .005-.015. FOR MACHINED PARTS. Fabricate 4 Copies
MATERIAL Delrin	FINISH 63 μ inch

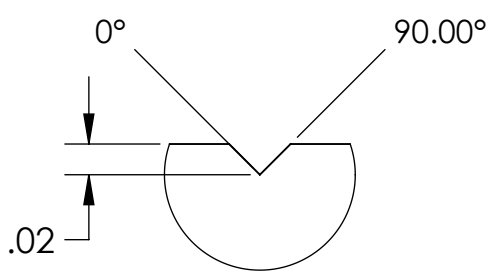
CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME Base Post	
SYSTEM	SUB-SYSTEM	DESIGNER	SIZE DWG. NO.
		DRAFTER Aron Markowitz	B D1700187
		CHECKER Brittany Kamal	REV.
		APPROVAL RXA	SCALE: 2:1 PROJECTION: SHEET 1 OF 1

ESD Holder, PART PDM REV.: , DRAWING PDM REV.:

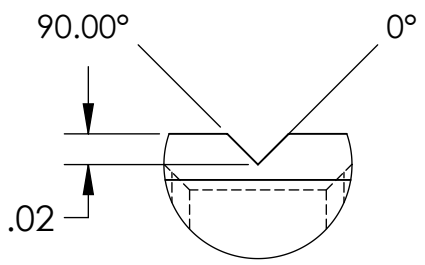
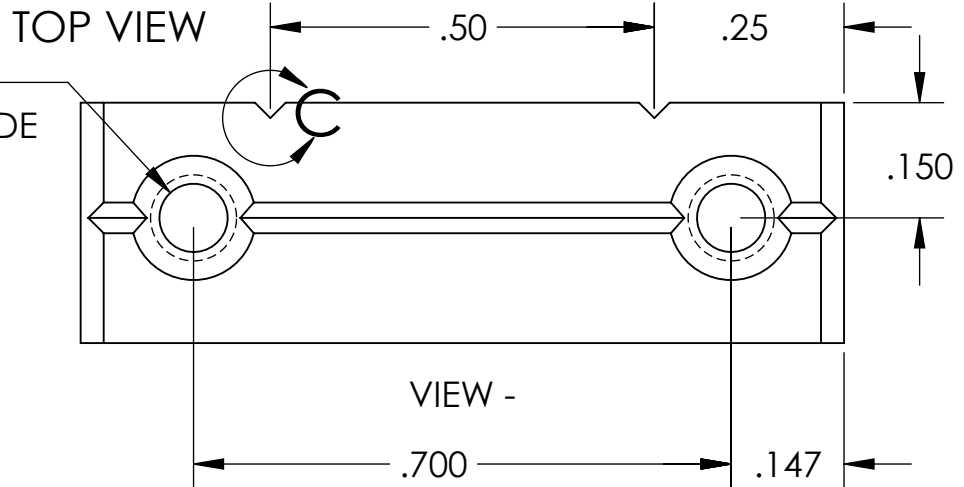
REV.	DATE	DCN #	DRAWING TREE #
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-	-	-	-
-	-	-	-



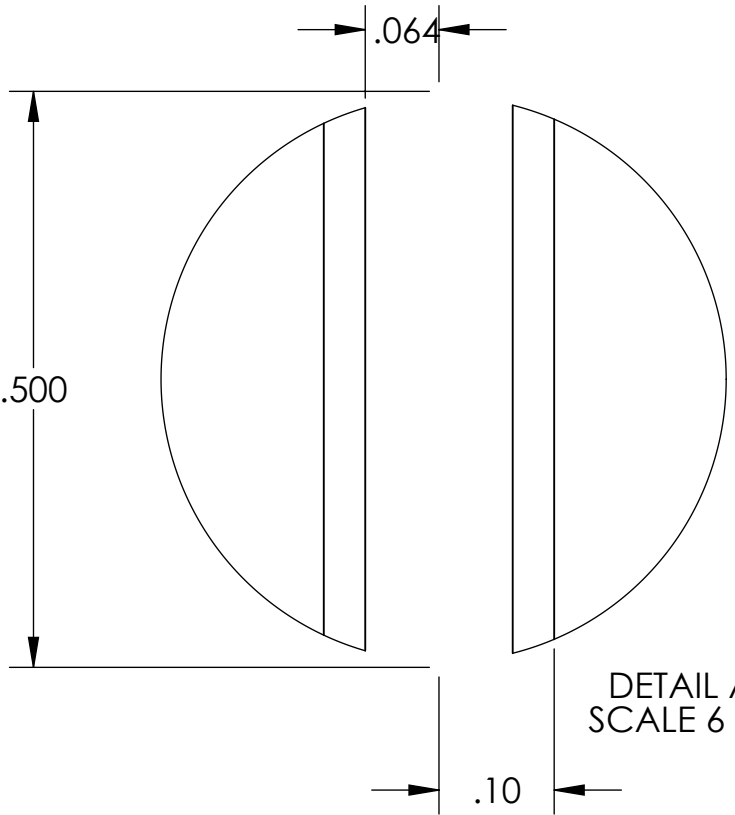
2X ϕ .089 ∇ .38
 4-40 UNC ∇ .30
 ∇ ϕ .162 X 90°, NEAR SIDE



DETAIL C
SCALE 8:1



DETAIL B
SCALE 8:1

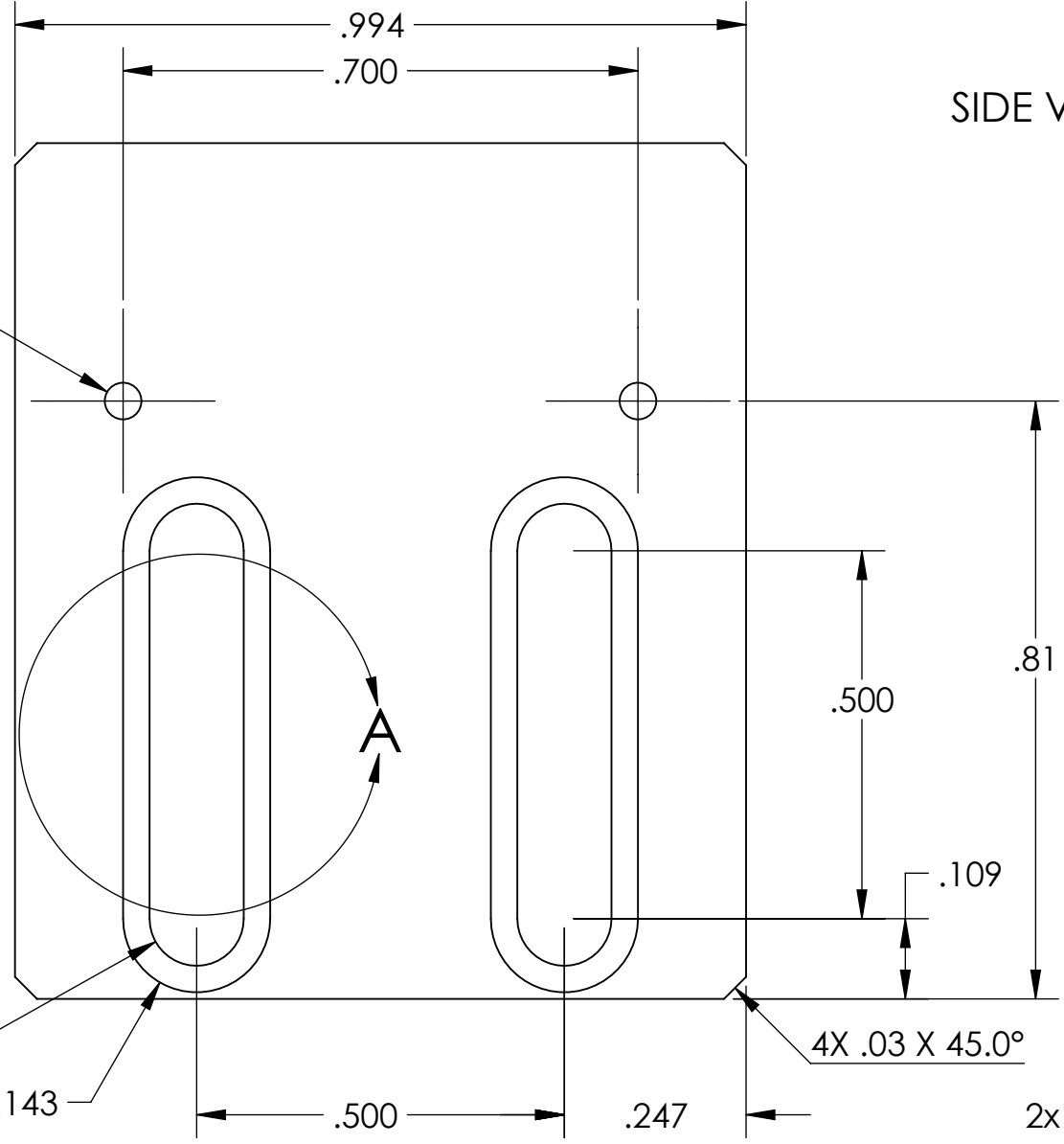


DETAIL A
SCALE 6:1

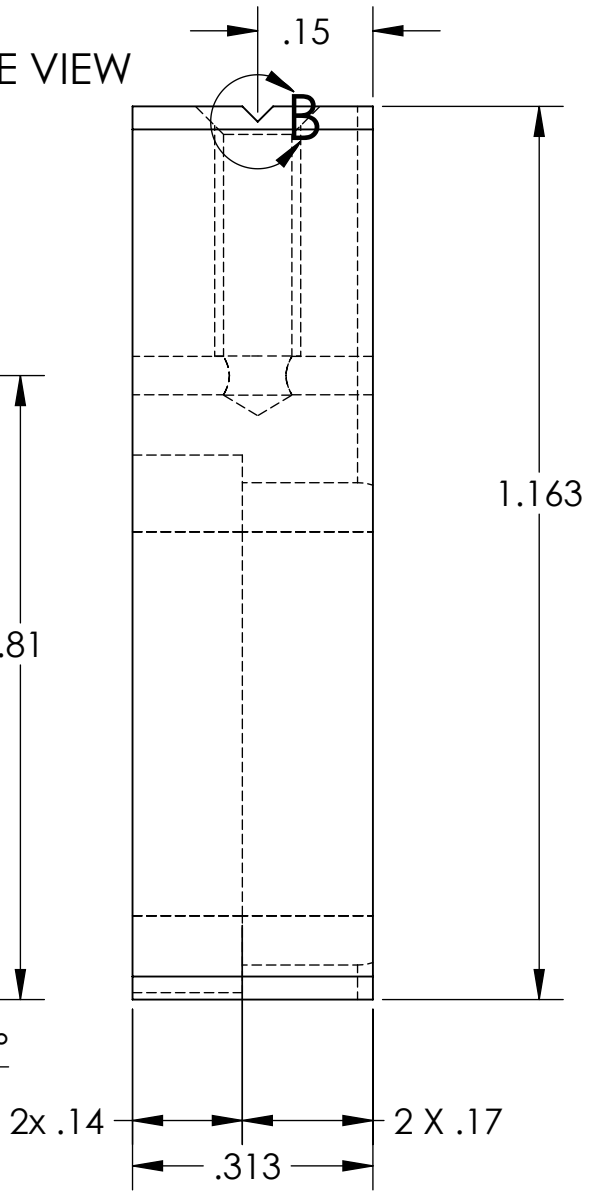
FRONT VIEW

2x ϕ .05 THRU

R.064 ∇ THRU
 2 X R.100 ∇ .143



SIDE VIEW



NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONS ARE IN
 TOLERANCES:
 .XX \pm 0.01"
 .XXX \pm 0.005"
 ANGULAR \pm 0.5°

REMOVE ALL SHARP EDGES, .005-.015. FOR MACHINED PARTS.

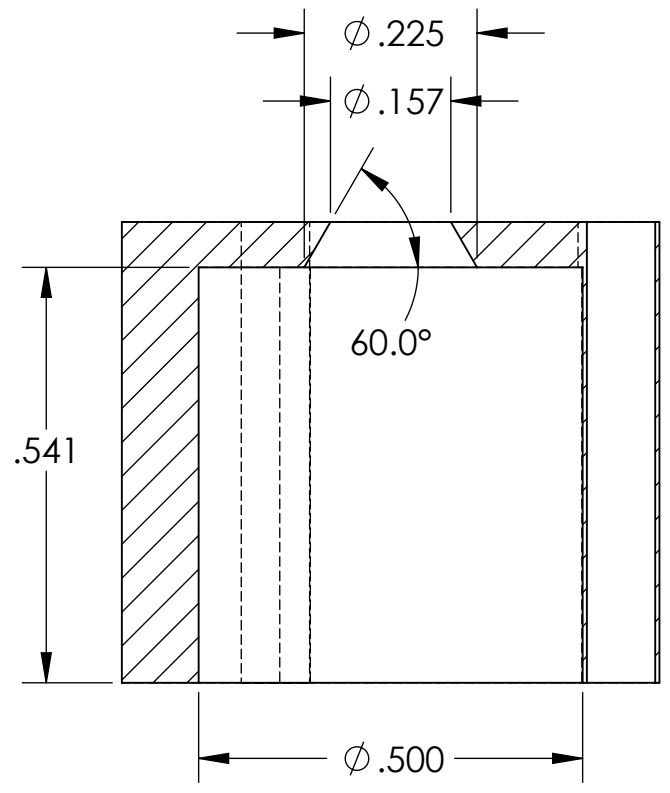
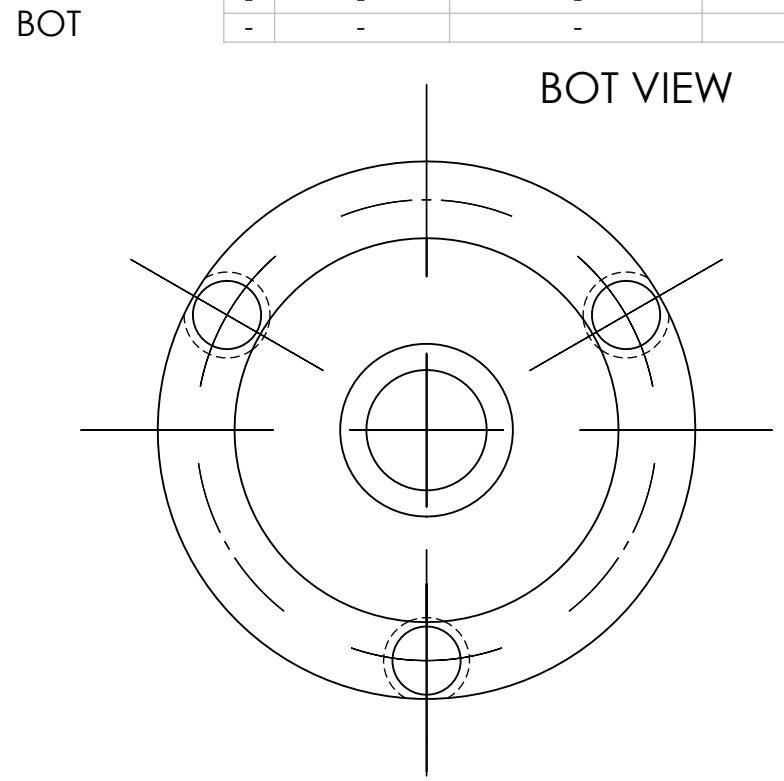
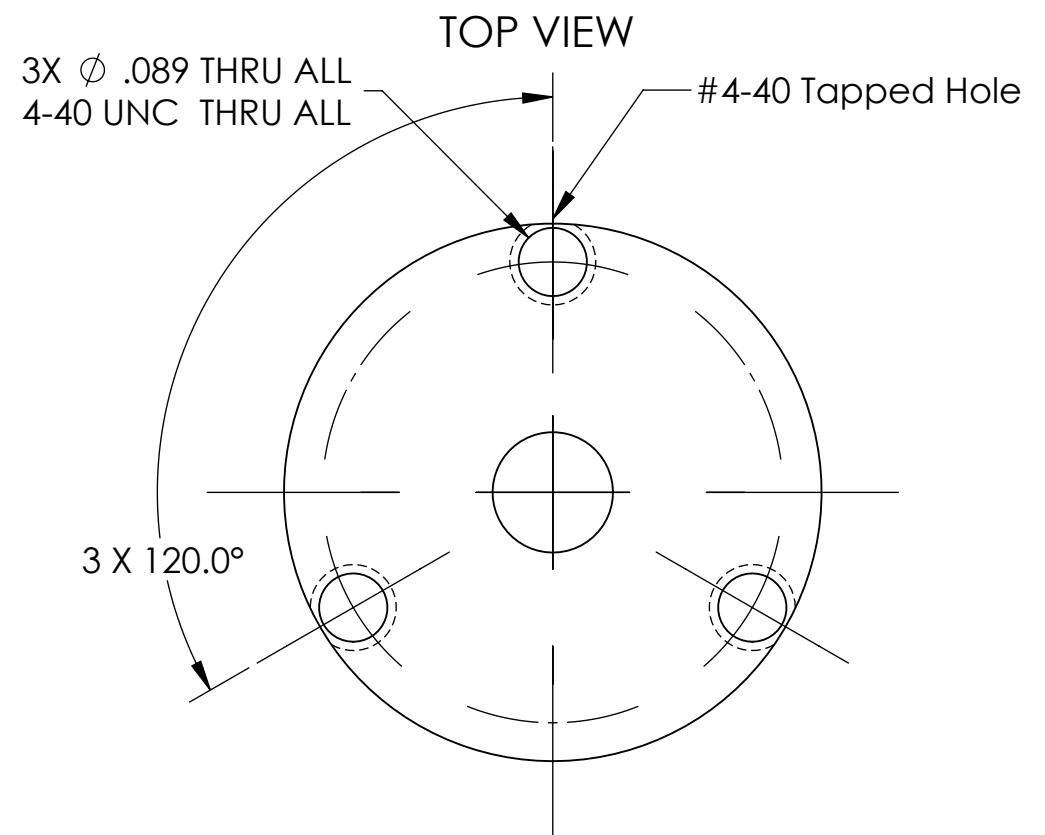
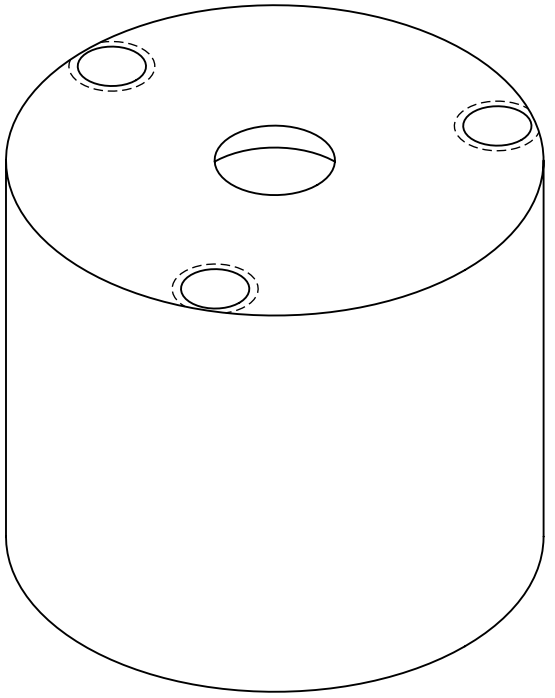
MATERIAL Aluminum 6061 FINISH 63 μ inch

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY
 SYSTEM SUB-SYSTEM
 NEXT ASSY

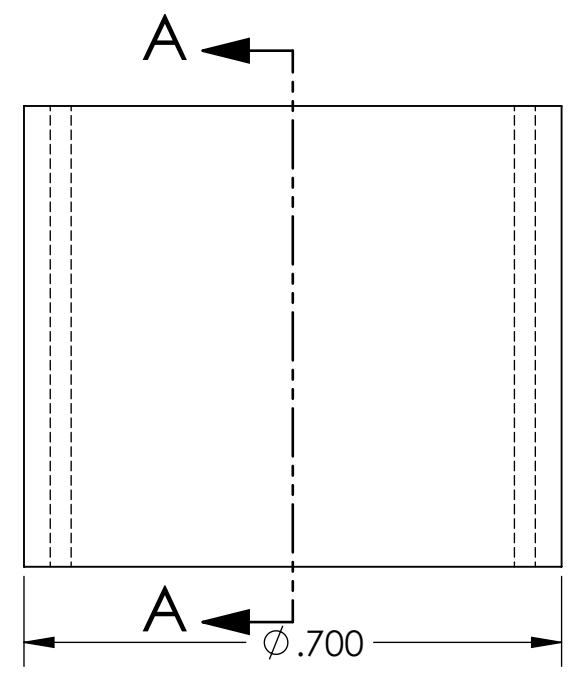
PART NAME ESD Holder
 DESIGNER Aaron Markowitz
 DRAFTER
 CHECKER Brittany Kamal
 APPROVAL RXA
 SIZE DWG. NO. B D1700187
 SCALE: 4:1 PROJECTION: SHEET 1 OF 1

Hemisphere Clamp, PART PDM REV.: , DRAWING PDM REV.:

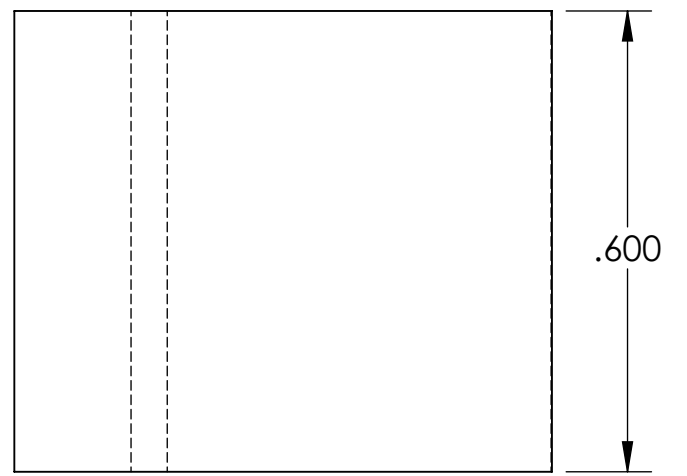
REV.	DATE	DCN #	DRAWING TREE #
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-	-	-	-



SECTION A-A

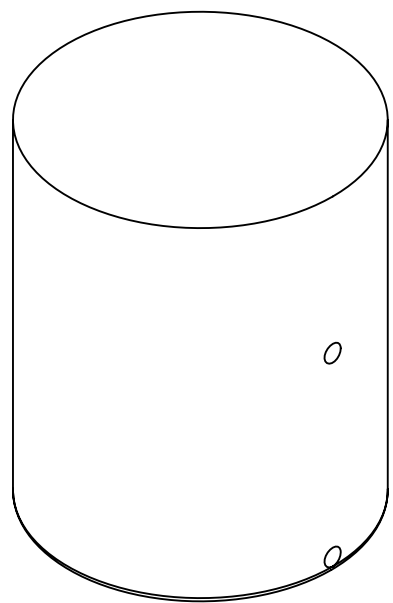


SIDE VIEW

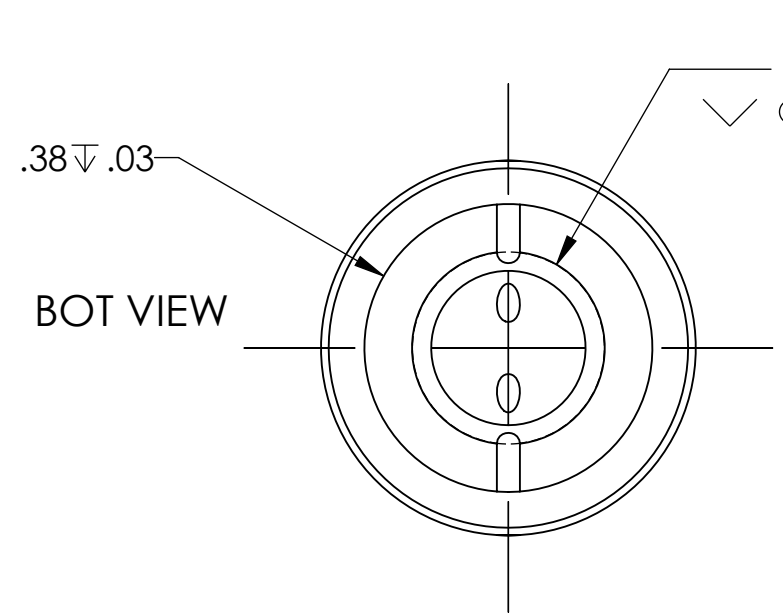
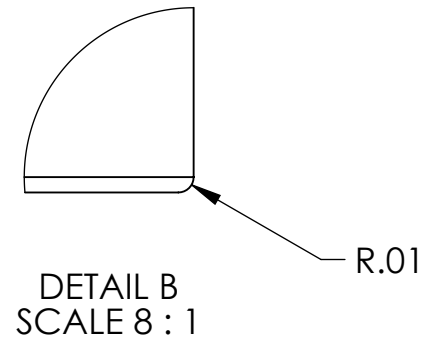
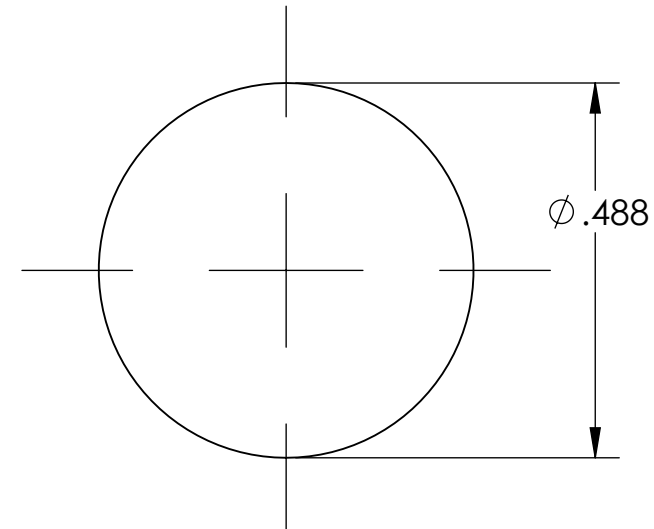


NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)		LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN TOLERANCES: .XX ± 0.01" .XXX ± 0.005" ANGULAR ± 0.5°		REMOVE ALL SHARP EDGES, .005-.015. FOR MACHINED PARTS.		Hemisphere Clamp	
MATERIAL Aluminum 6061		FINISH 63 μinch		DESIGNER	SIZE DWG. NO.
		NEXT ASSY		DRAFTER	B
				CHECKER	SCALE: 4:1 PROJECTION:
				APPROVAL	SHEET 1 OF 1

REV.	DATE	DCN #	DRAWING TREE #
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-	-	-	-

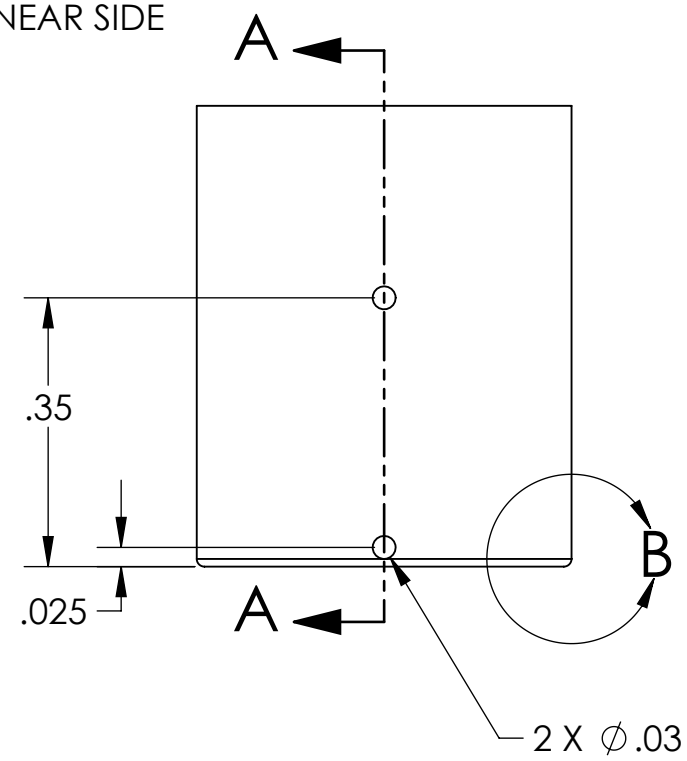


TOP VIEW

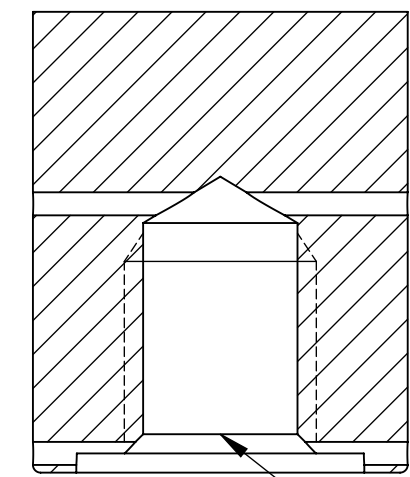


BOT VIEW

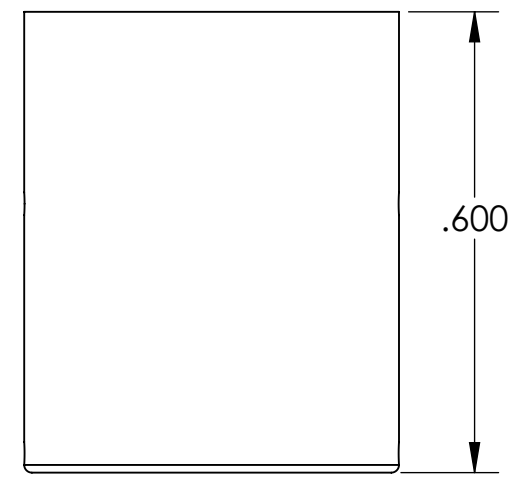
$\phi .201 \pm .30$
 $1/4-20 \text{ UNC} \pm .25$
 $\checkmark \phi .251 \times 90^\circ, \text{ NEAR SIDE}$



SIDE VIEW



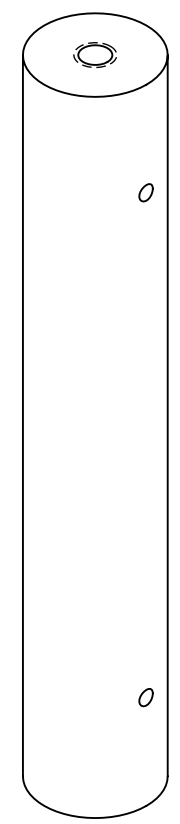
SECTION A-A — 1/4-20 Tapped Hole



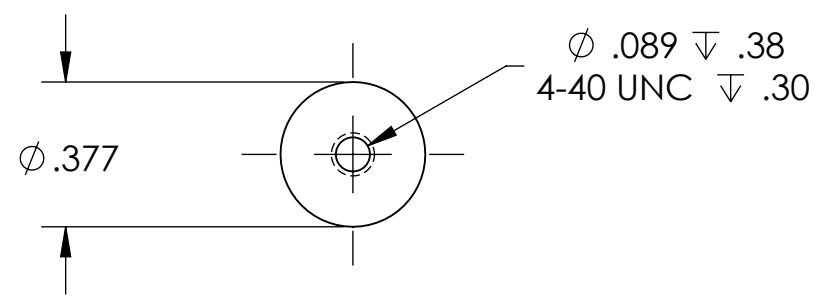
Hemisphere Mount, PART PDM REV: , DRAWING PDM REV:

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN TOLERANCES: .XX ± 0.01" .XXX ± 0.005" ANGULAR ± 0.5°				REMOVE ALL SHARP EDGES, .005-.015. FOR MACHINED PARTS.		Hemisphere Mount	
MATERIAL Aluminum 6061				FINISH 63 μinch		NEXT ASSY	
				DESIGNER		SIZE DWG. NO.	
				DRAFTER		B	
				CHECKER		REV.	
				APPROVAL		SCALE: 4:1 PROJECTION: SHEET 1 OF 1	

REV.	DATE	DCN #	DRAWING TREE #
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-	-	-	-
-	-	-	-

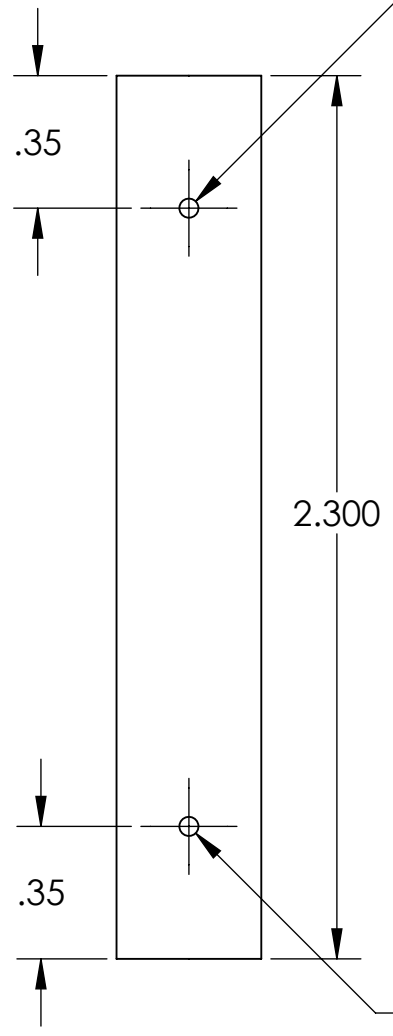


TOP VIEW

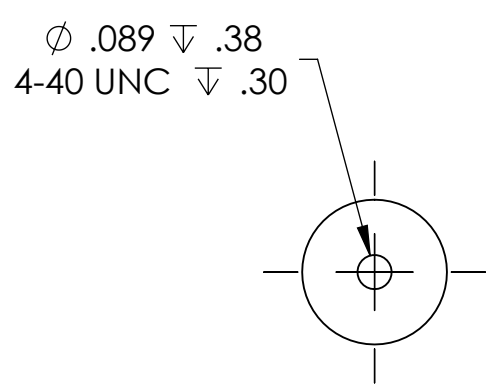


ϕ .05

SIDE VIEW



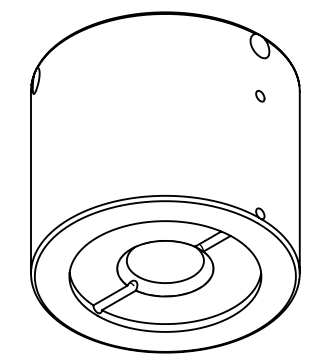
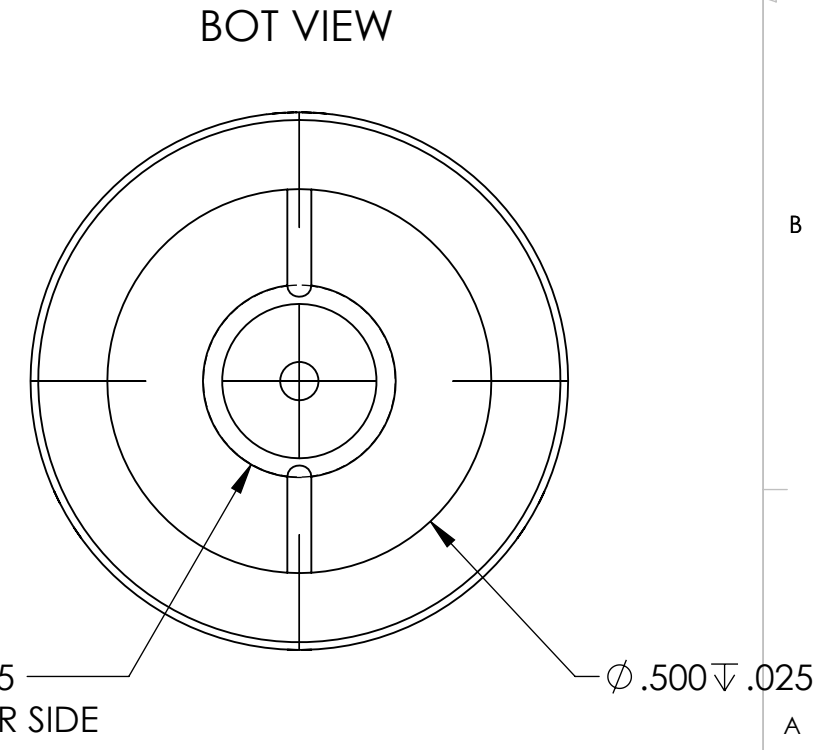
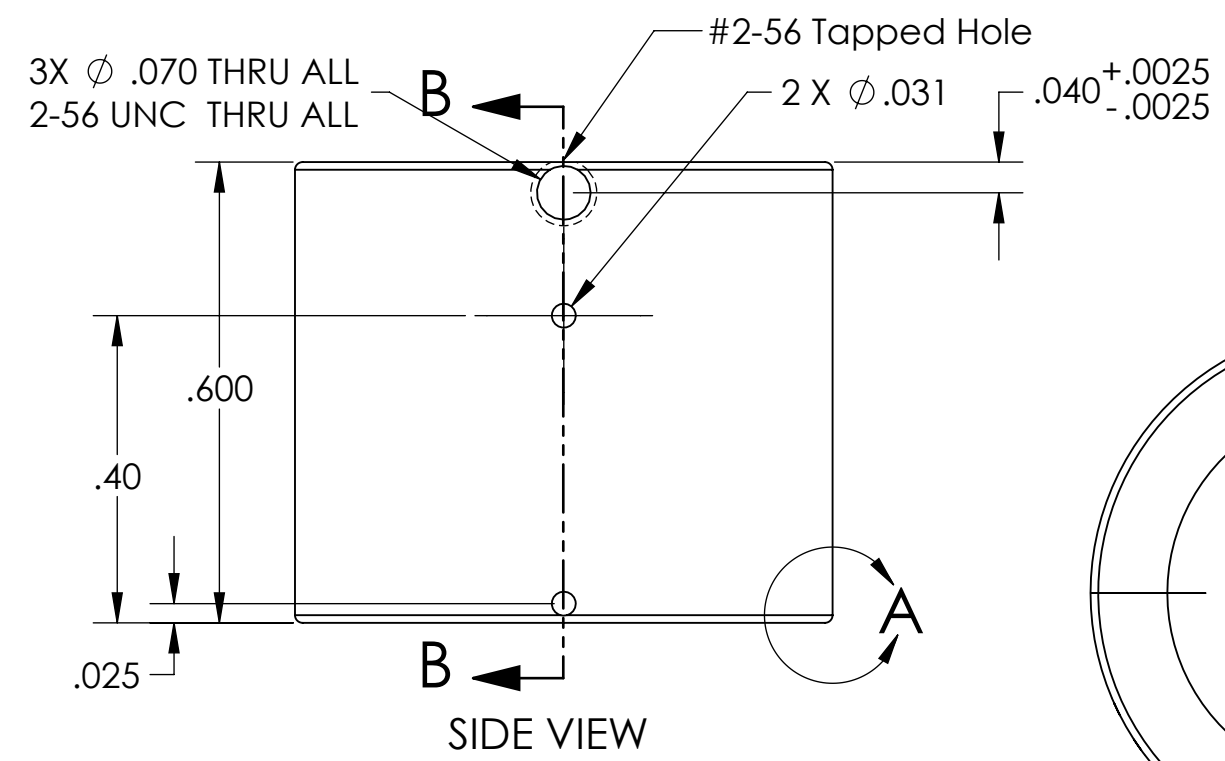
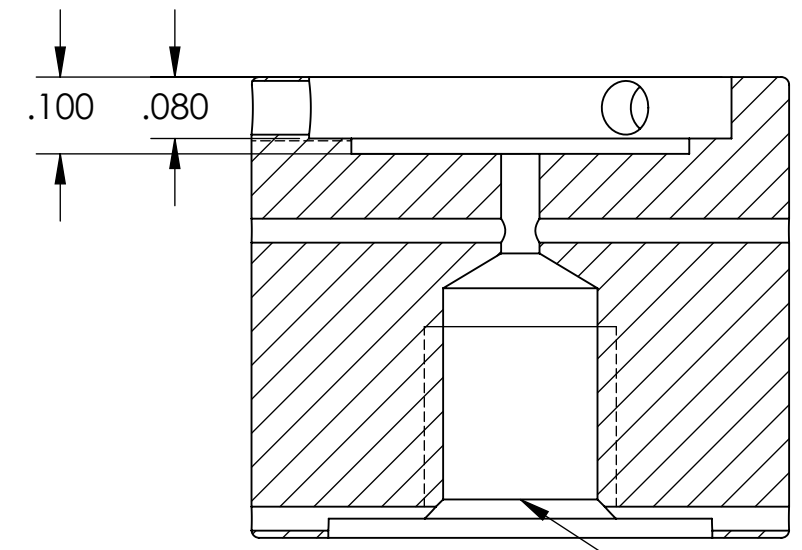
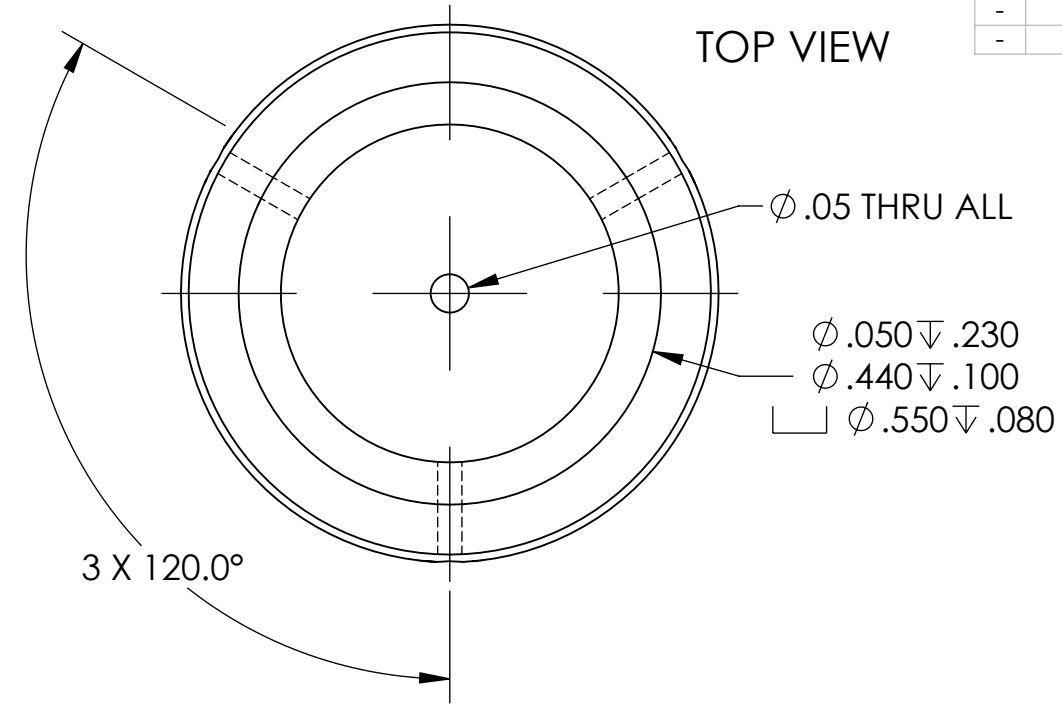
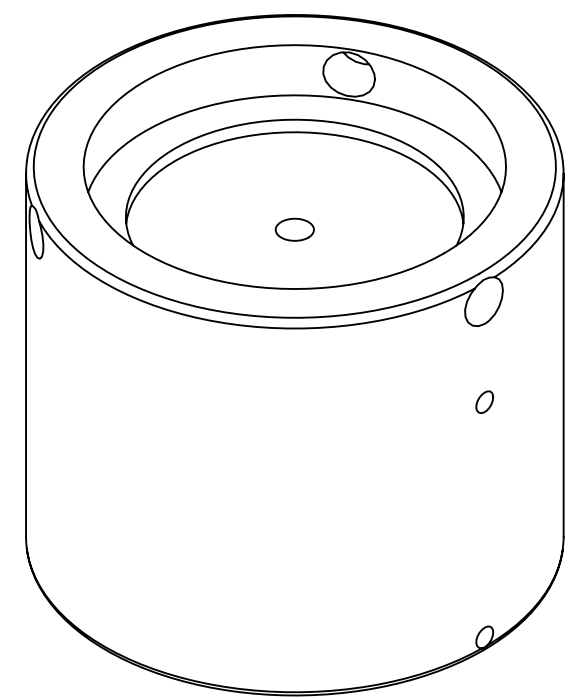
BOT VIEW



Holder Post, PART PDM REV., DRAWING PDM REV:

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN TOLERANCES:		REMOVE ALL SHARP EDGES, .005-.015. FOR MACHINED PARTS.		SYSTEM		Holder Post	
.XX" ± 0.01"		Fabricate 3 Copies		SUB-SYSTEM		SIZE DWG. NO.	
.XXX" ± 0.005"		MATERIAL Delrin		NEXT ASSY		B	
ANGULAR ± 0.5°		FINISH 63 μinch		DESIGNER		REV.	
				DRAFTER			
				CHECKER			
				APPROVAL		SCALE: 2:1 PROJECTION: SHEET 1 OF 1	

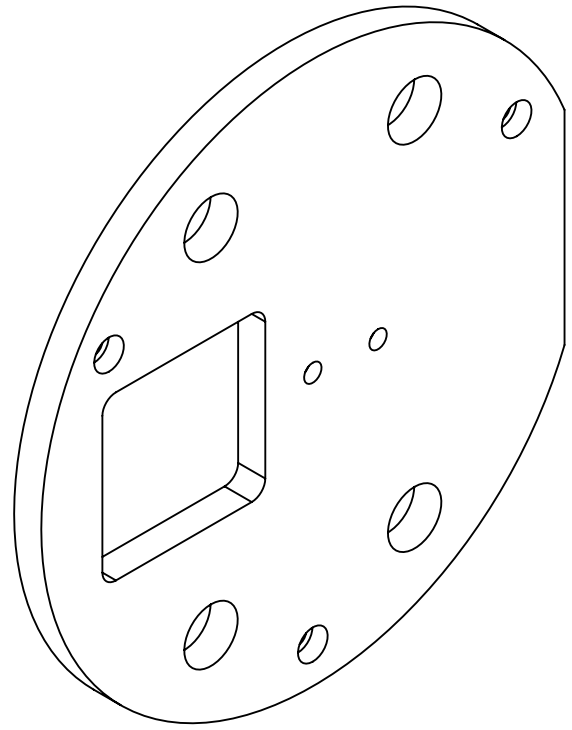
REV.	DATE	DCN #	DRAWING TREE #
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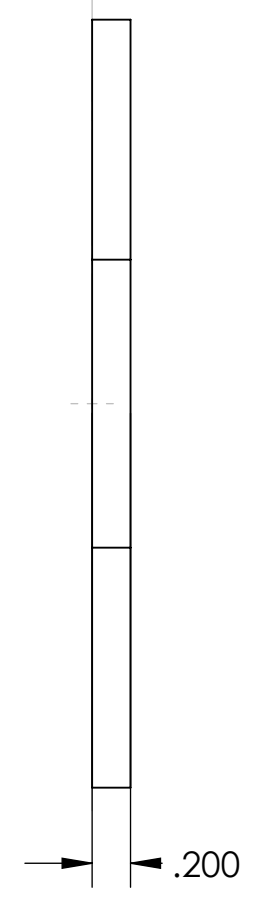
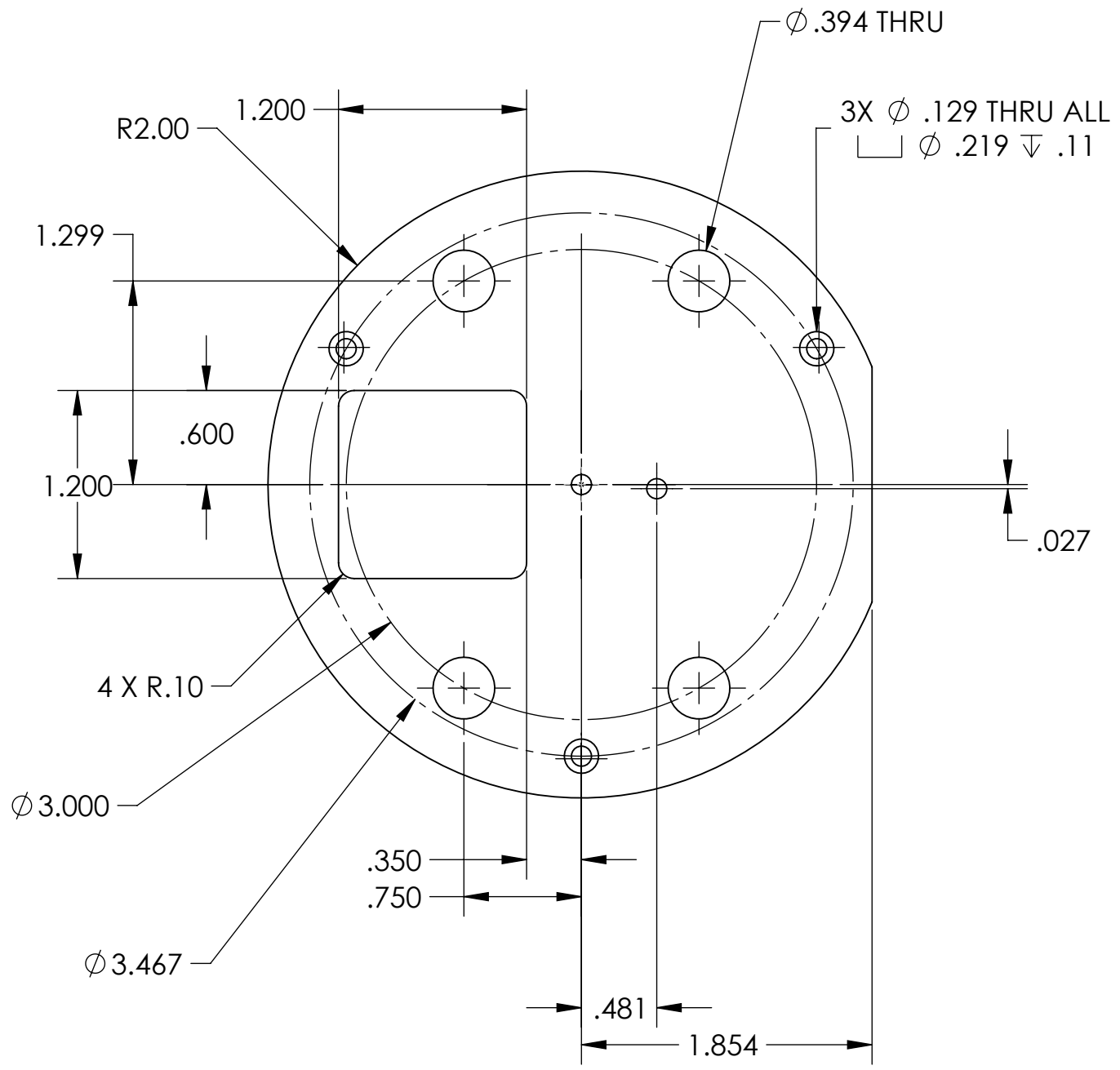
Lens Mount 0.5in, PART PDM REV.: DRAWING PDM REV.:

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN TOLERANCES: .XX ± 0.01" .XXX ± 0.005" ANGULAR ± 0.5°				REMOVE ALL SHARP EDGES, .005-.015. FOR MACHINED PARTS.		Lens Mount	
MATERIAL Aluminum 6061				FINISH 63 μinch		NEXT ASSY	
SYSTEM		SUB-SYSTEM		DESIGNER	SIZE DWG. NO.	REV.	
				DRAFTER	B		
				CHECKER			
				APPROVAL		SCALE: 4:1 PROJECTION:	
						SHEET 1 OF 1	

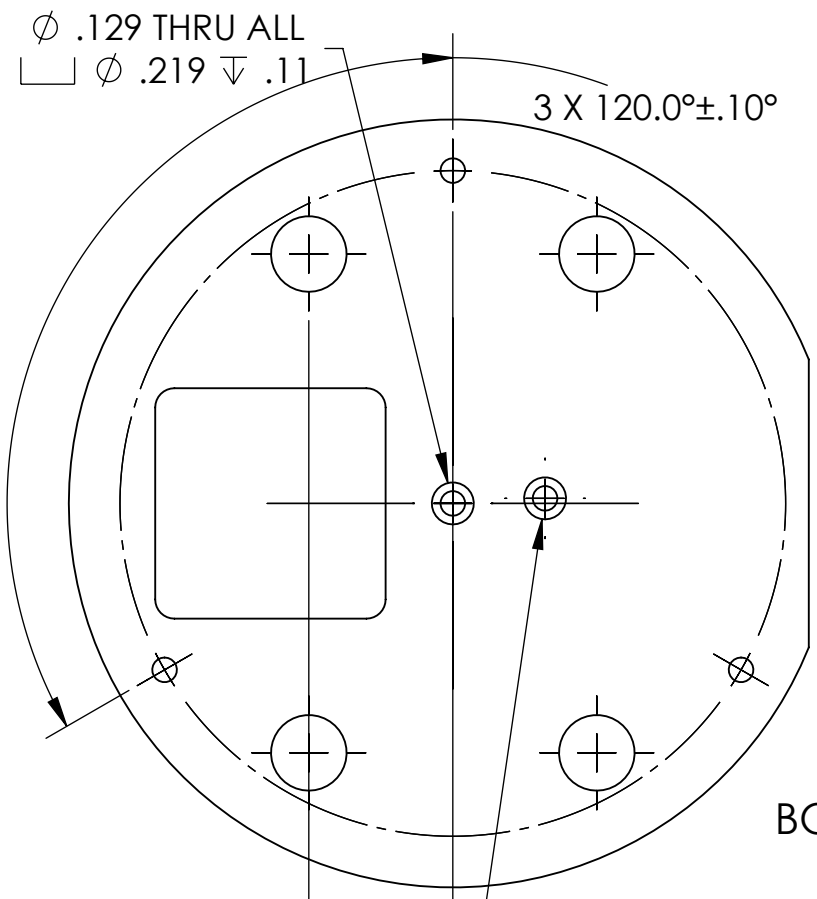
REV.	DATE	DCN #	DRAWING TREE #
-	-	-	-
-	-	-	-
-	-	-	-



TOP VIEW



SIDE VIEW



BOT VIEW

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN TOLERANCES: .XX ± 0.01" .XXX ± 0.005" ANGULAR ± 0.5°				LIGO		Platform	
REMOVE ALL SHARP EDGES, .005-.015. FOR MACHINED PARTS.				SYSTEM	SUB-SYSTEM	DESIGNER	SIZE DWG. NO.
MATERIAL Aluminum 6061				FINISH 63 μinch	NEXT ASSY	CHECKER	B
						APPROVAL	SCALE: 1:1 PROJECTION: SHEET 1 OF 1

Platform, PART PDM REV.: DRAWING PDM REV.:

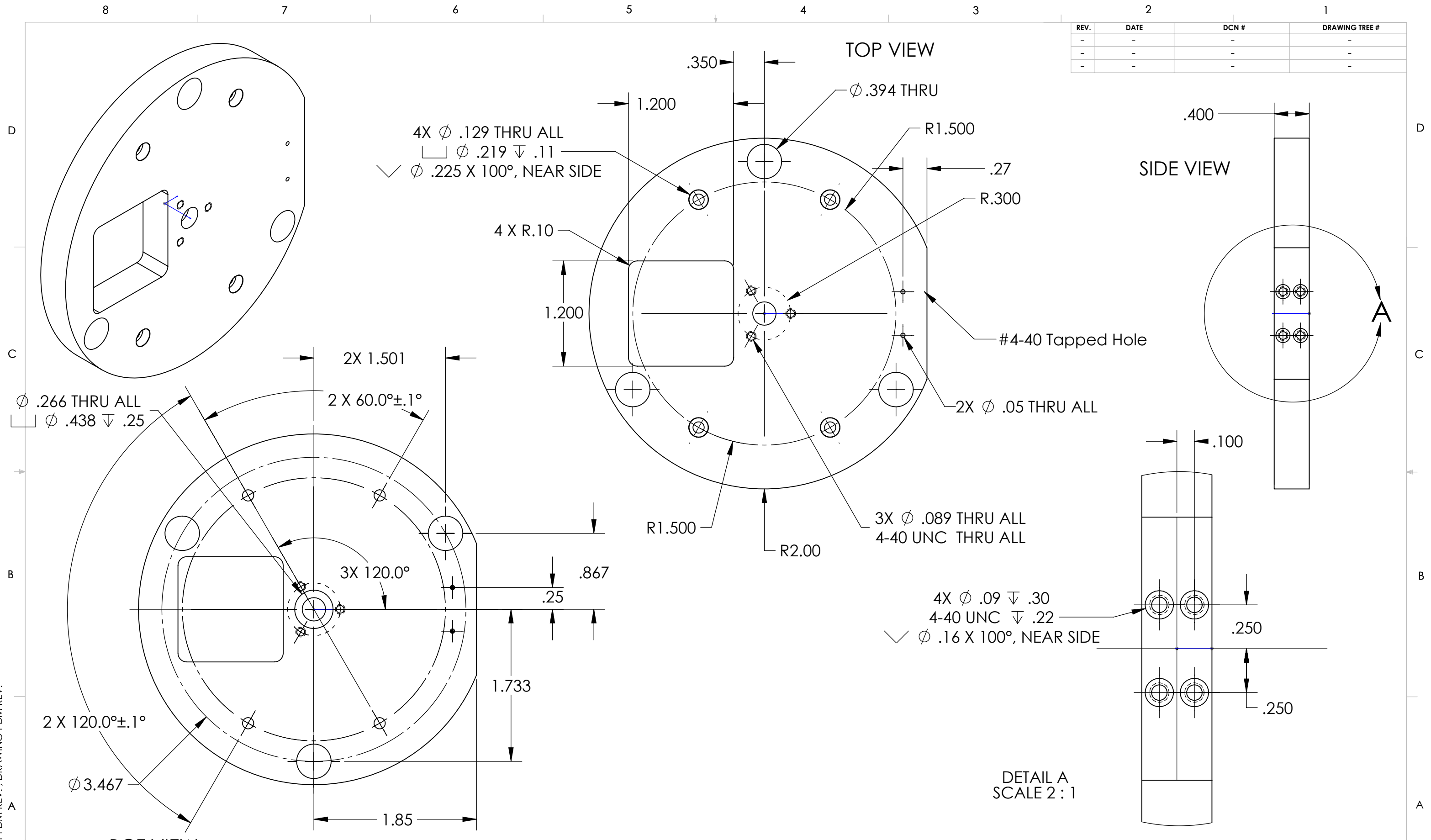
8 7 6 5 4 3 2 1

D
C
B
A

D
C
B
A

8 7 6 5 4 3 2 1

REV.	DATE	DCN #	DRAWING TREE #
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-	-	-	-
-	-	-	-

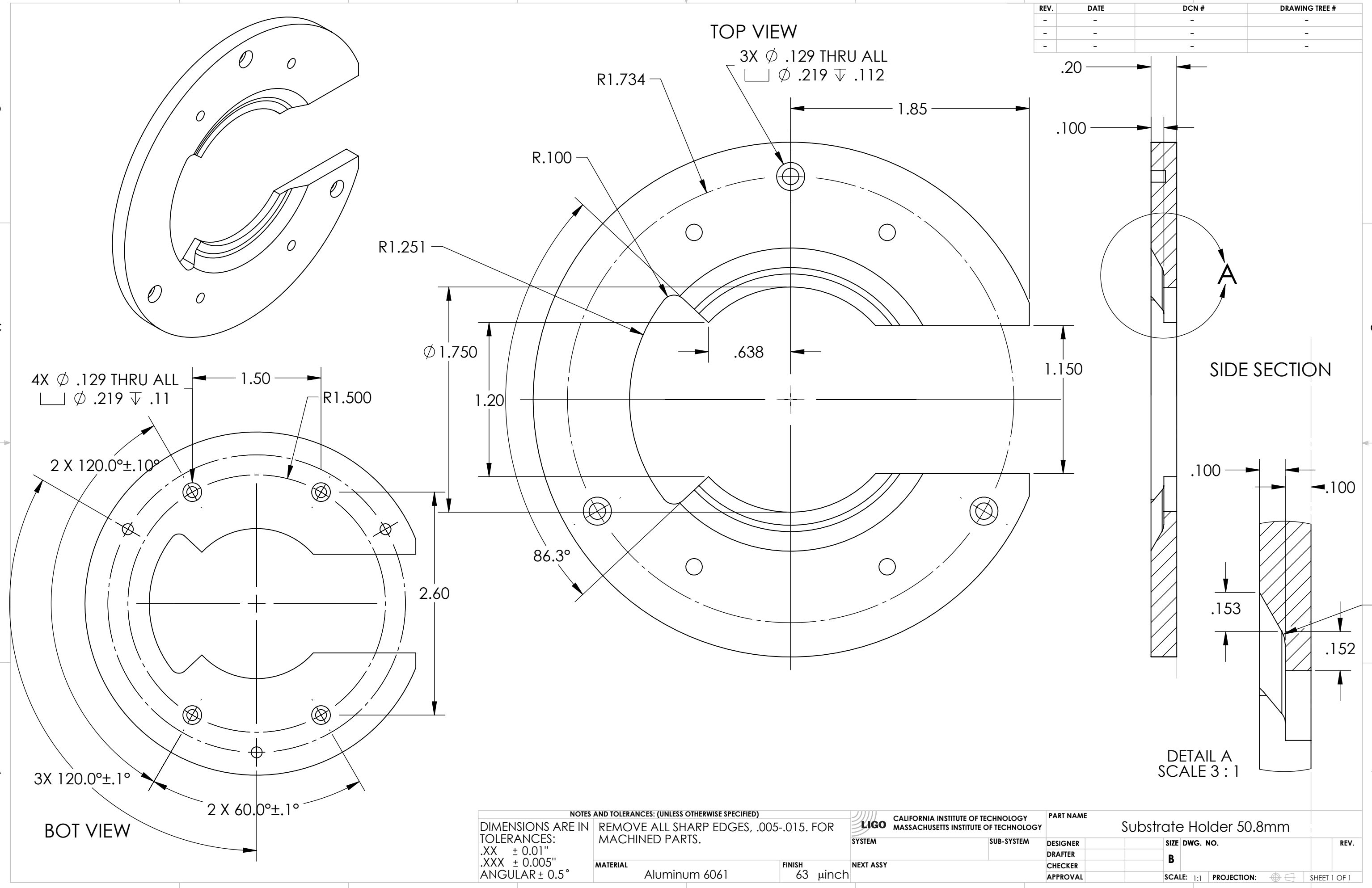


Sphere Base, PART PDM REV: , DRAWING PDM REV:

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN TOLERANCES: .XX \pm 0.01" .XXX \pm 0.005" ANGULAR \pm 0.5°				REMOVE ALL SHARP EDGES, .005-.015. FOR MACHINED PARTS.		Sphere Base	
MATERIAL Aluminum 6061		FINISH 63 μ inch		NEXT ASSY		DESIGNER	
						DRAFTER	
						CHECKER	
						APPROVAL	
				SYSTEM		SUB-SYSTEM	
						SIZE DWG. NO.	
						B	
						SCALE: 1:1 PROJECTION:	
						SHEET 1 OF 1	

Substrate Holder 50.8mm, PART PDM REV: , DRAWING PDM REV:

REV.	DATE	DCN #	DRAWING TREE #
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-	-	-	-
-	-	-	-



NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME	
DIMENSIONS ARE IN TOLERANCES: .XX ± 0.01" .XXX ± 0.005" ANGULAR ± 0.5°				REMOVE ALL SHARP EDGES, .005-.015. FOR MACHINED PARTS.		Substrate Holder 50.8mm	
MATERIAL		FINISH		NEXT ASSY		DESIGNER	
Aluminum 6061		63 μ inch				DRAFTER	
						CHECKER	
						APPROVAL	
				SYSTEM		SUB-SYSTEM	
						SIZE DWG. NO.	
						B	
						SCALE: 1:1 PROJECTION:	
						SHEET 1 OF 1	
						REV.	