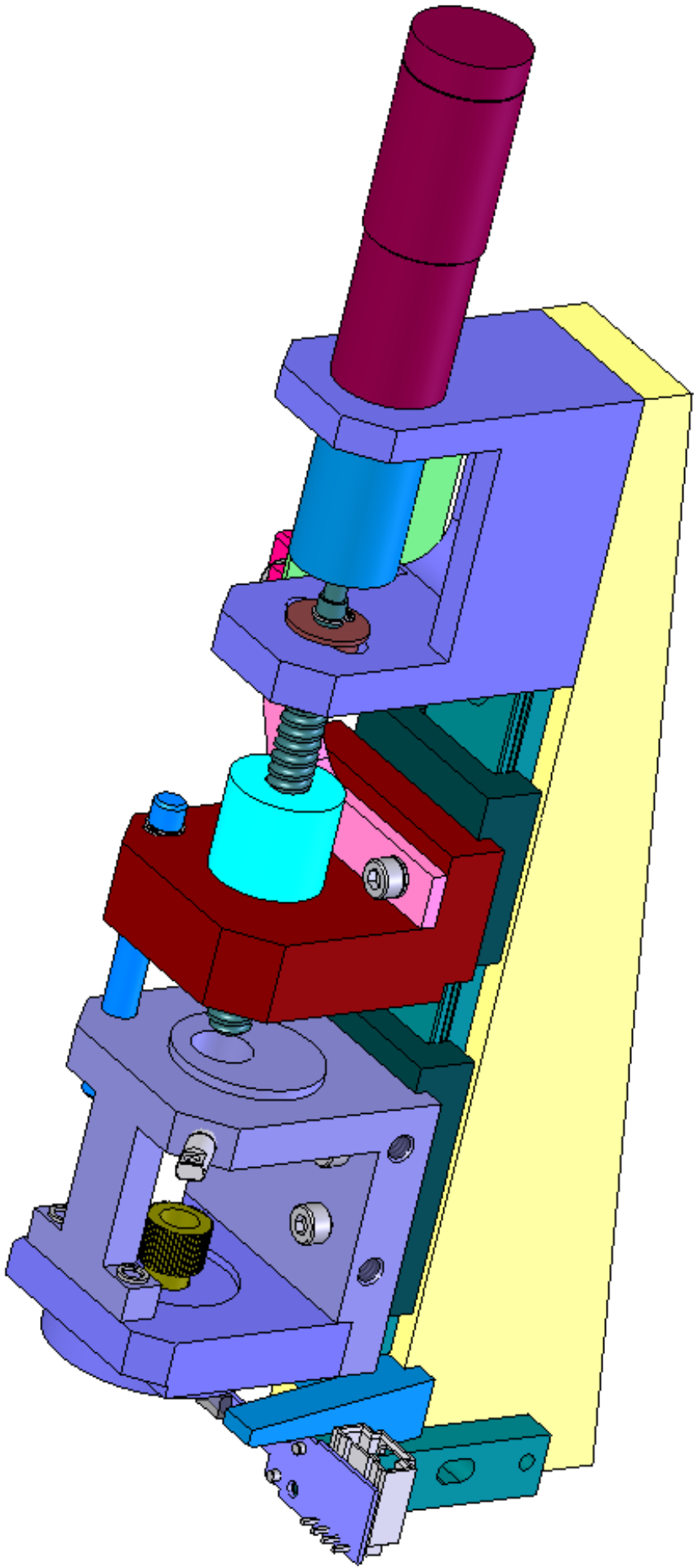
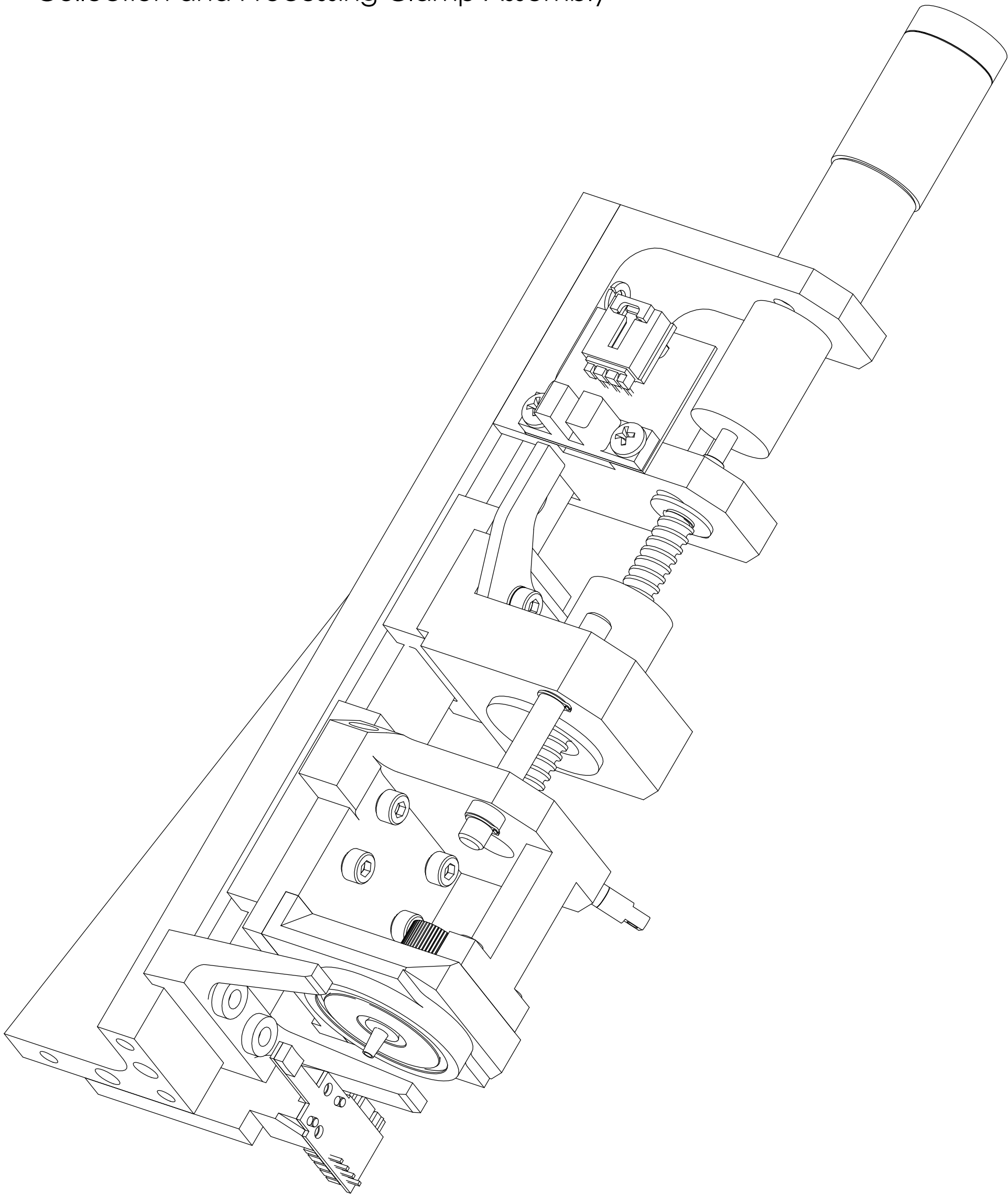


Collection and Processing Clamp Assembly



BILL OF MATERIALS					last updated on: Thursday, March 30, 2006 2:24:01 PM				
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:			APPROVALS	DATE	Monterey Bay Aquarium Research Institute		
Inspector		2 PLACE DIM ±.01	3 PLACE DIM ±.005	4 PLACE DIM ±.0005	ANGLES ±1°	ENGINEER Jason Feldman 831-775-1837	7700 Sandholdt Road Moss Landing, CA 95039		
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING 3. REMOVE BURRS & SHARP EDGES .010 MAX 4. MACHINED FILLET RADII .010 TO .020 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .001 PER INCH. MAX .010 INCHES FOR SINGLE SURFACE. 7. SURFACE FINISH TO BE 63 MICRON UNLESS OTHERWISE SPECIFIED					CHECKED		
Engineer									
NEXT ASSY Description	NEXT ASSY Number								
DO NOT SCALE DRAWING		PROJECT NUMBER 701312.00					Clamp		
		PROJECT ESP 2G					SIZE C	DWG. NO. 1002145	REV. I
CAD FILE: (Tornado) X:/ProjectLibrary/701312 ESP 2G/SolidWorks files						SHEET 1 OF 13			



THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MBARI. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF MBARI IS PROHIBITED.

CLAMP - SUPPORT
1002145-001

2X $\phi .1885^{+.0000}_{-.0005}$ $\nabla .25$
(CLASS LC2 FIT TO $\phi 3/16$ PIN)

$\oplus \phi .0005 \text{ (M)} \text{ A B C}$

.5000

B

A

$\text{▮} .0005$

$\text{▮} .0020 \text{ A}$
 $\text{▮} .0030$

.6530

.1560

0

.803

.333

0

C

$\text{▮} .0005 \text{ A B}$
 $\text{▮} .0005$

2X .2125

$\phi .102 \nabla .425$
5-40 UNC - 2B $\nabla .350$

$\text{▮} \phi .0938^{+.0001}_{-.0000} \nabla .15$

6.675 $\pm .025$

9.67°

R.25

.313

1.45

1.150

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.45

1.150

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

.844

#8-32 Tapped Hole $\nabla .40$
3 PLCS

2X .156

0

.313

1.00

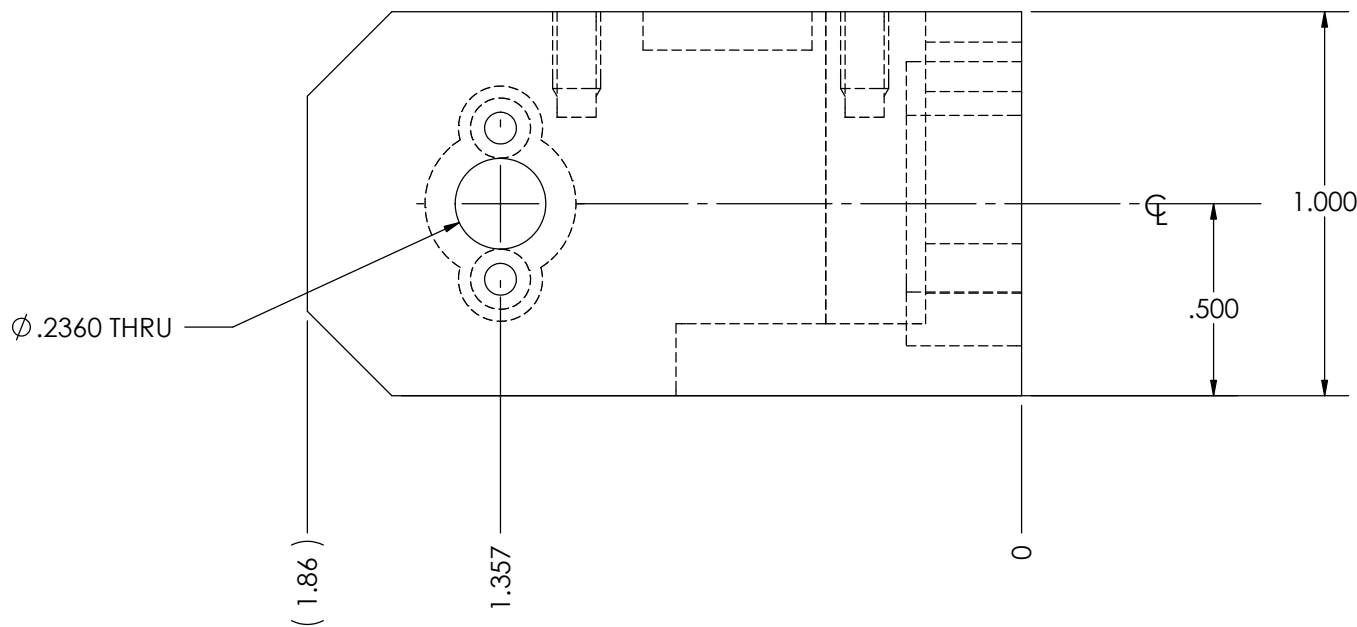
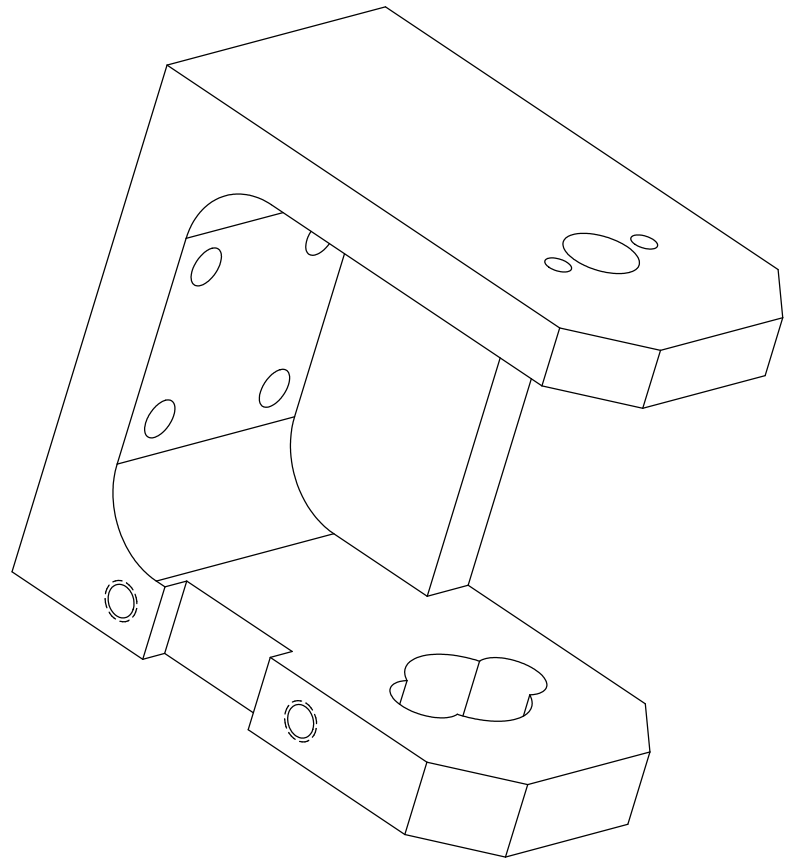
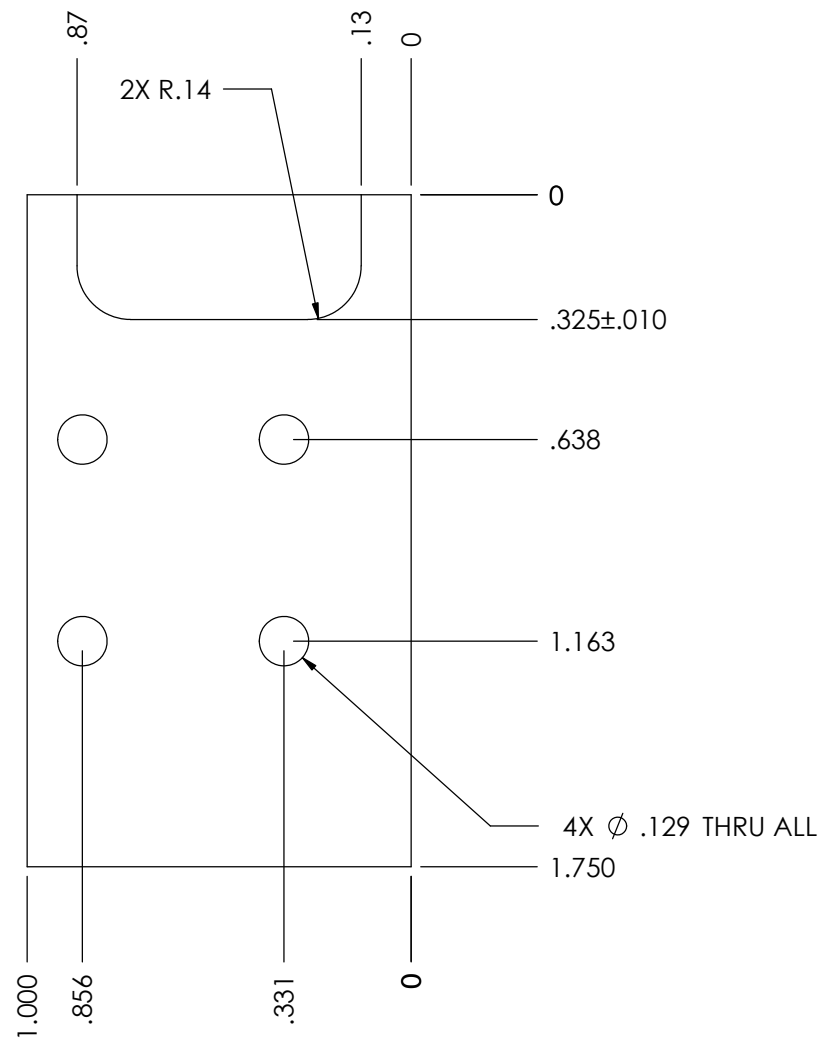
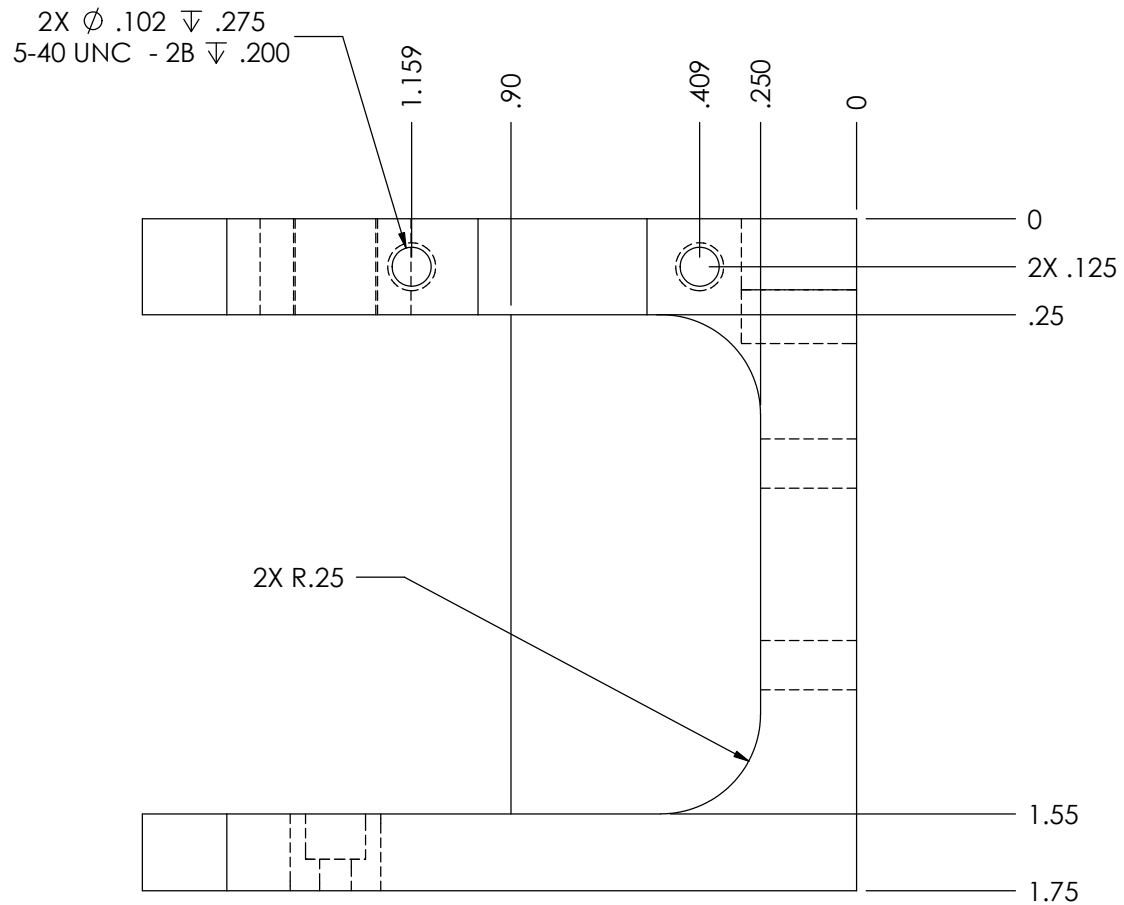
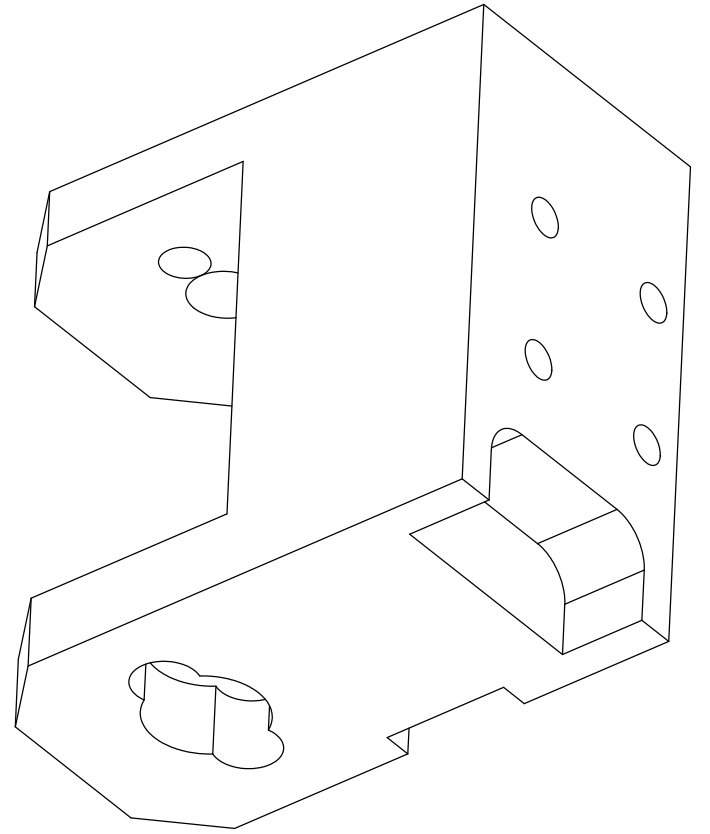
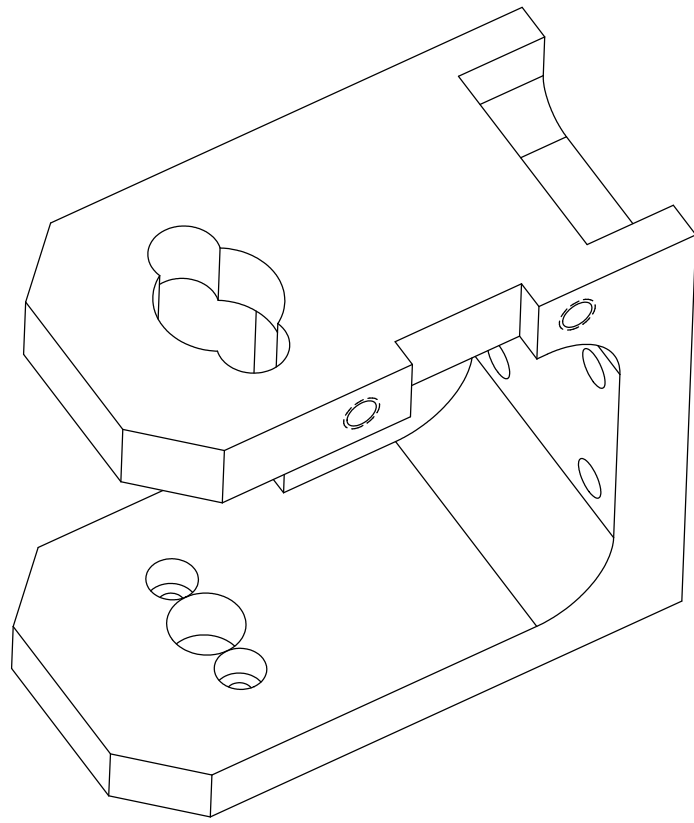
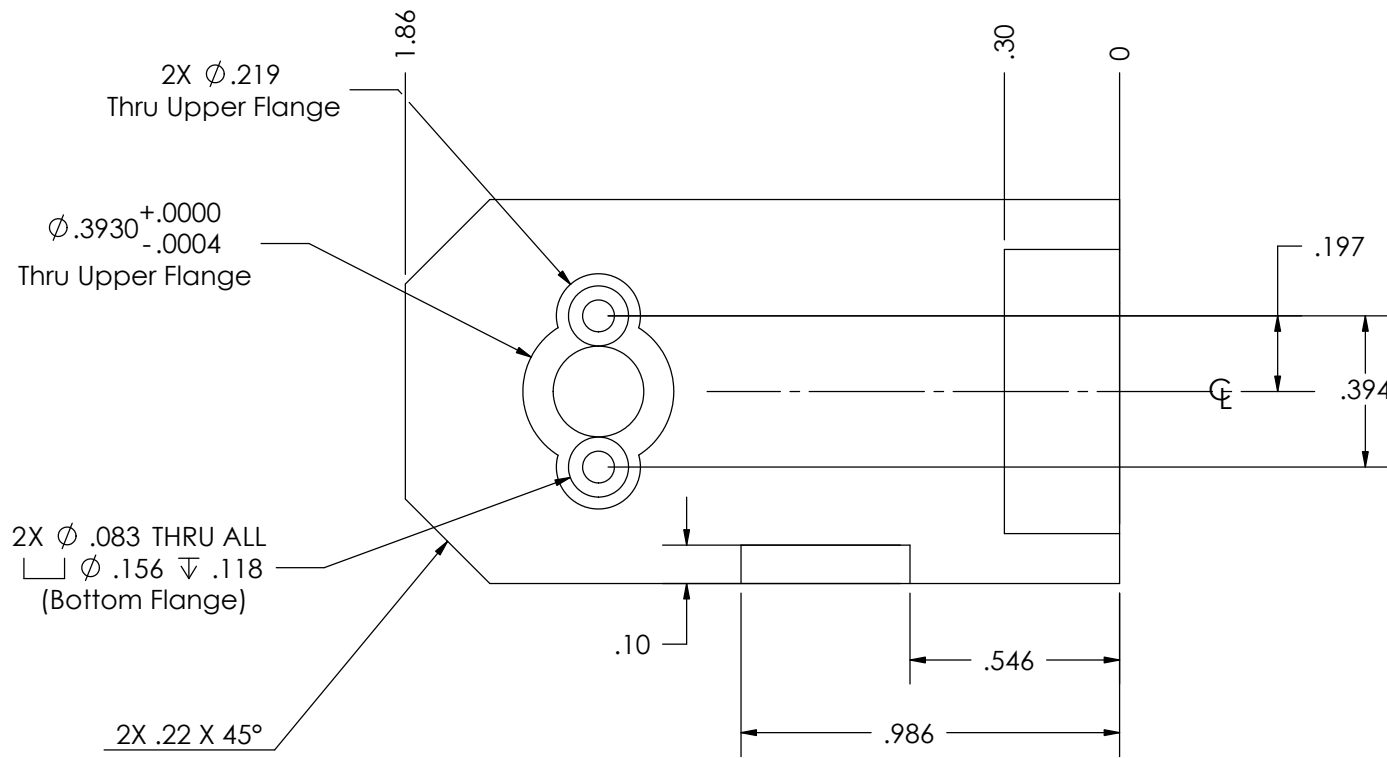
.844

<

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MBARI ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF MBARI IS PROHIBITED

CLAMP - MOTOR MOUNT

1002145-003



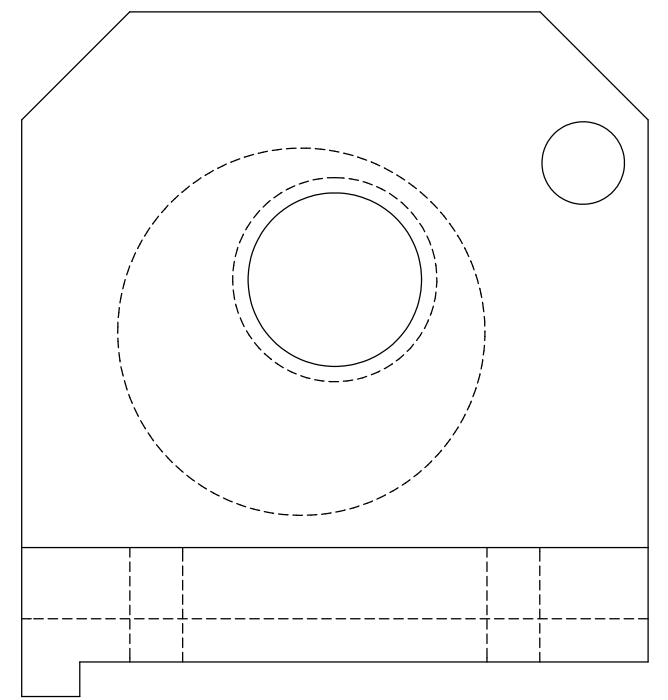
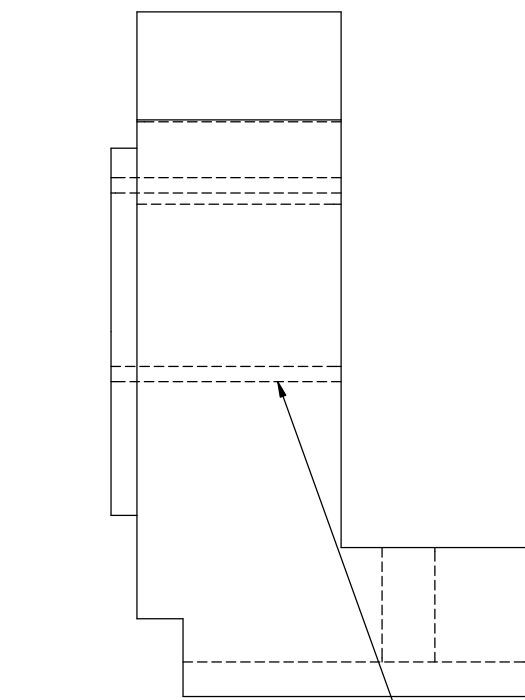
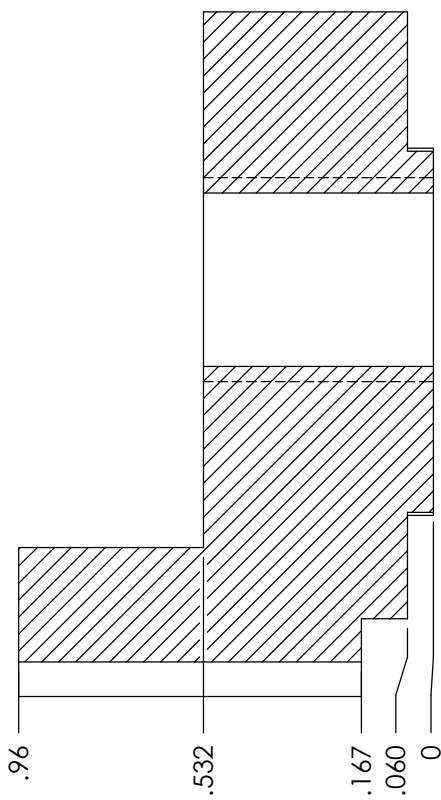
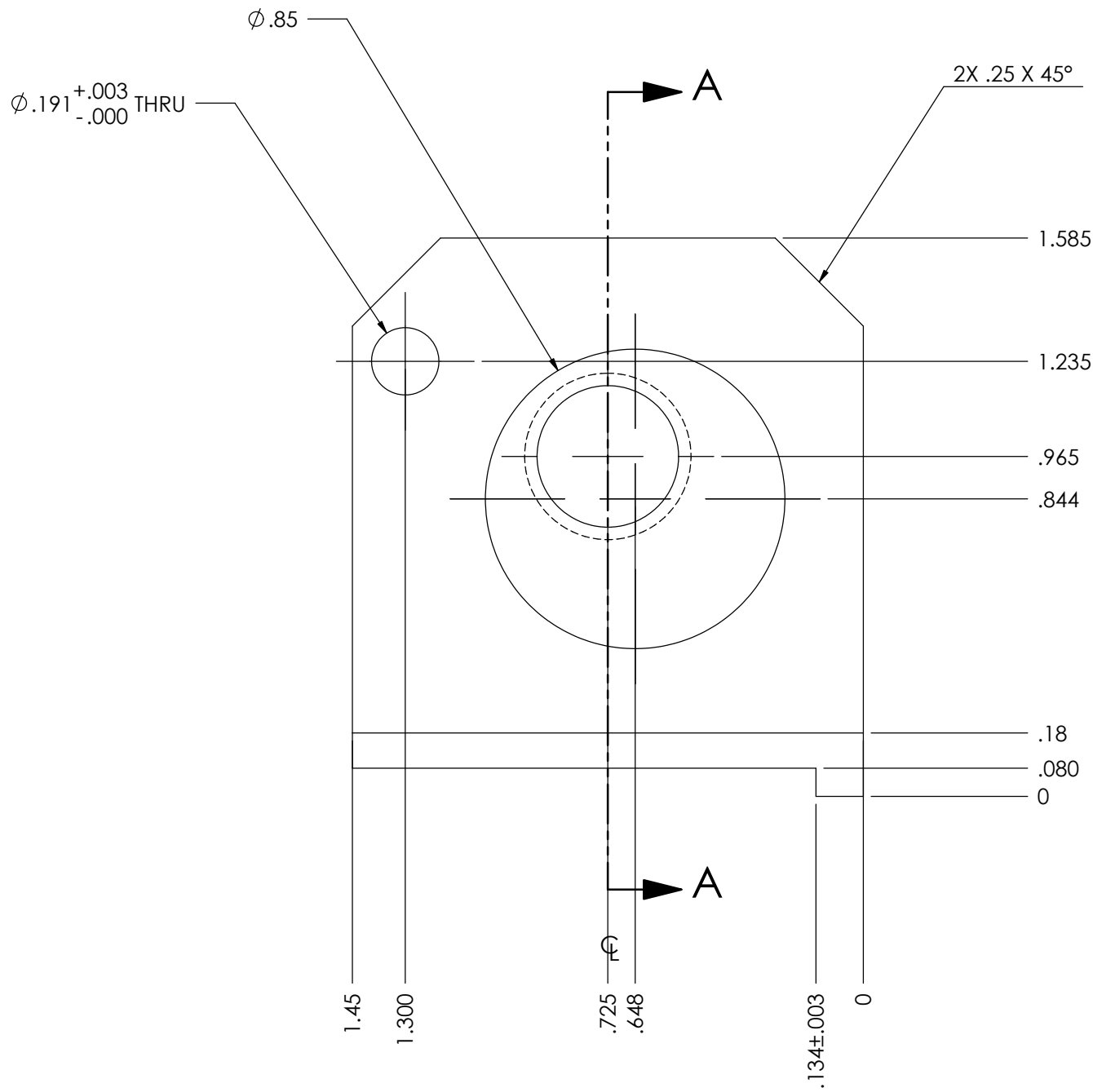
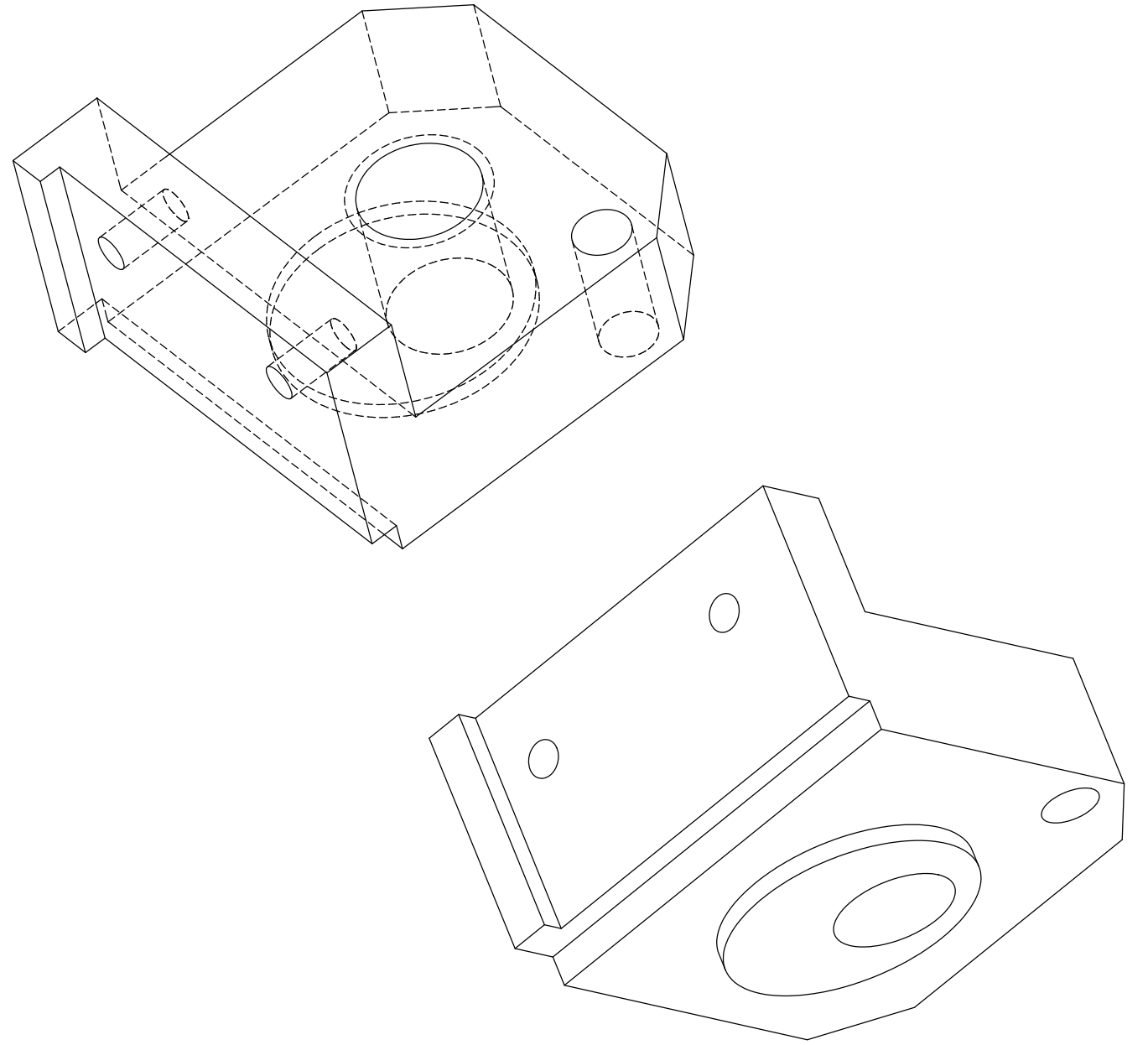
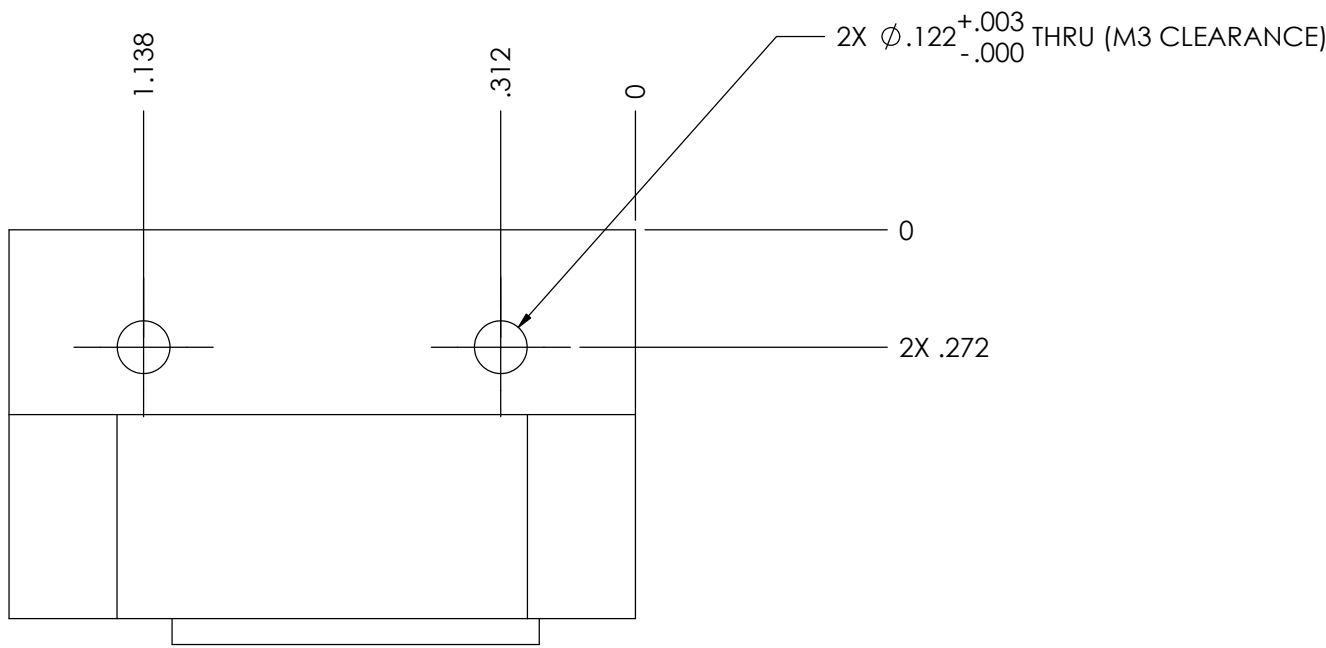
ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
3	1002145-003	Clamp - motor mount	7075-T6 Aluminum	2
BILL OF MATERIALS				
Shop / Q.C.			last updated on: Thursday, March 30, 2006 2:24:01 PM	
Inspector		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE: 2 PLACE DIM $\pm .01$ 3 PLACE DIM $\pm .005$ 4 PLACE DIM $\pm .0005$ ANGLES $\pm 1^\circ$ 1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING 3. REMOVE BURRS & SHARP EDGES .010 MAX 4. MACHINED FILLET RADII .010 TO .020 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .001 PER INCH. MAX .010 INCHES FOR SINGLE SURFACE. 7. SURFACE FINISH TO BE 63 MICRON UNLESS OTHERWISE SPECIFIED	APPROVALS DATE ENGINEER Jason Feldman 831-775-1837	
Shop Foreman			CHECKED	
Engineer			PROJECT NUMBER 701312.00	
NEXT ASSY Description	NEXT ASSY Number	PROJECT ESP 2G	SIZE C	DWG. NO. 1002145
DO NOT SCALE DRAWING		REV. I		
		CAD FILE: (Tornado) X:/ProjectLibrary/701312 ESP 2G/SolidWorks files		
		SHEET 3 OF 13		



THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MBARI. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF MBARI IS PROHIBITED.

CLAMP - BALLSCREW NUT MOUNT

1002145-004



M12x1.00 Tapped Hole THRU

SECTION A-A

ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
4	1002145-004	Clamp - top	7075-T6 Aluminum	2

BILL OF MATERIALS				last updated on: Thursday, March 30, 2006 2:24:01 PM	
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE	
Inspector		2 PLACE DIM $\pm .01$	3 PLACE DIM $\pm .005$	4 PLACE DIM $\pm .0005$	ANGLES $\pm 1^\circ$
Shop Foreman		1. DIMENSIONS ARE IN INCHES		ENGINEER Jason Feldman 831-775-1837	
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING		CHECKED	
NEXT ASSY Description		3. REMOVE BURRS & SHARP EDGES .010 MAX		PROJECT NUMBER 701312.00	
NEXT ASSY Number		4. MACHINED FILLET RADII .010 TO .020		PROJECT ESP 2G	
DO NOT SCALE DRAWING		5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005		SIZE C	
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .001 PER INCH. MAX .010 INCHES FOR SINGLE SURFACE.		DWG. NO. 1002145	
		7. SURFACE FINISH TO BE 63 MICRON UNLESS OTHERWISE SPECIFIED		REV. I	
				CAD FILE: (Tornado) X:/ProjectLibrary/701312 ESP 2G/SolidWorks files	
				SHEET 4 OF 13	

Monterey Bay Aquarium Research Institute
7700 Sandholdt Road
Moss Landing, CA
95039

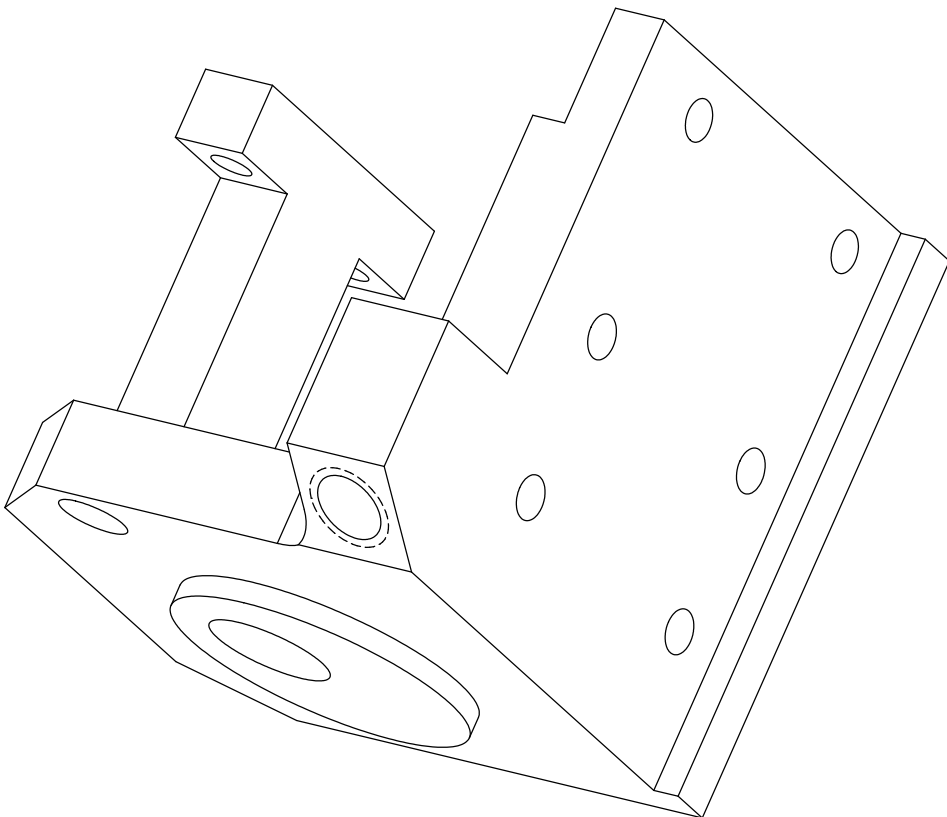
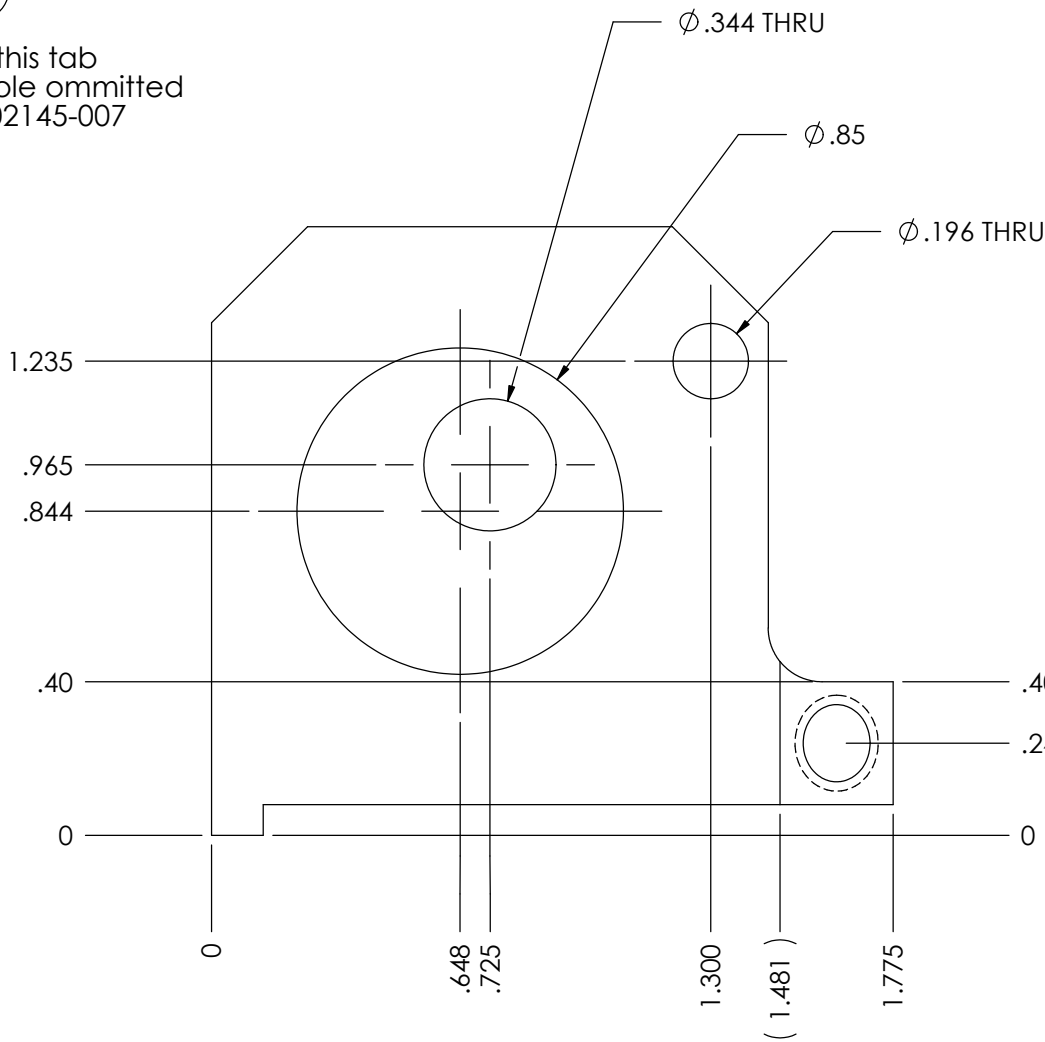
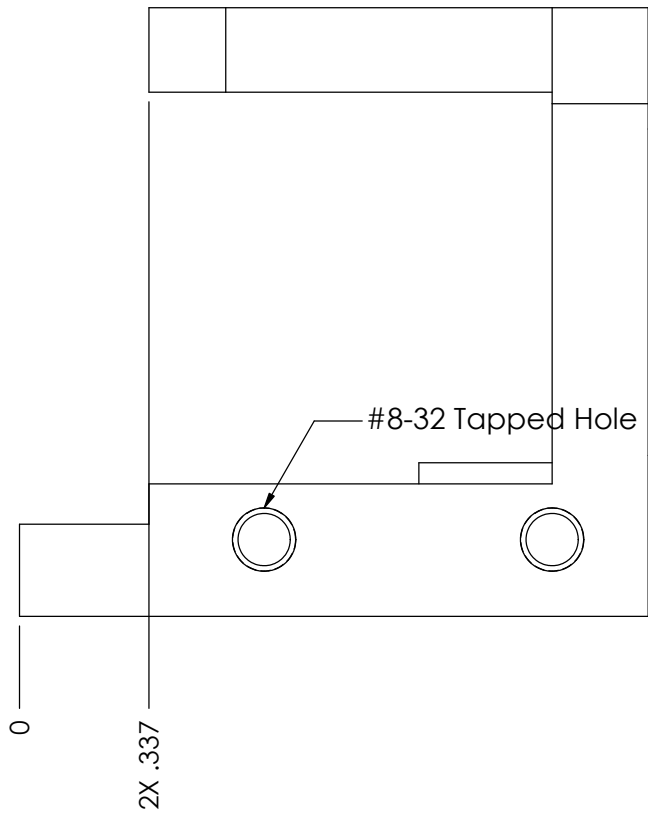
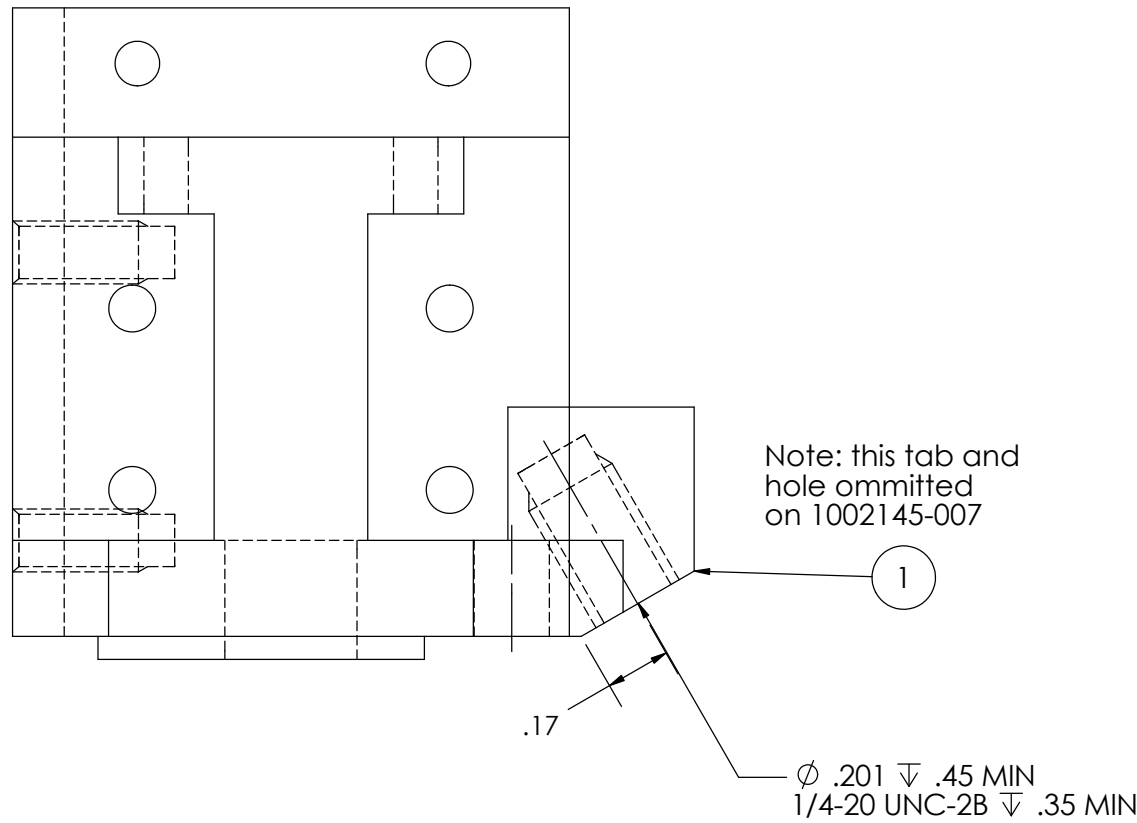
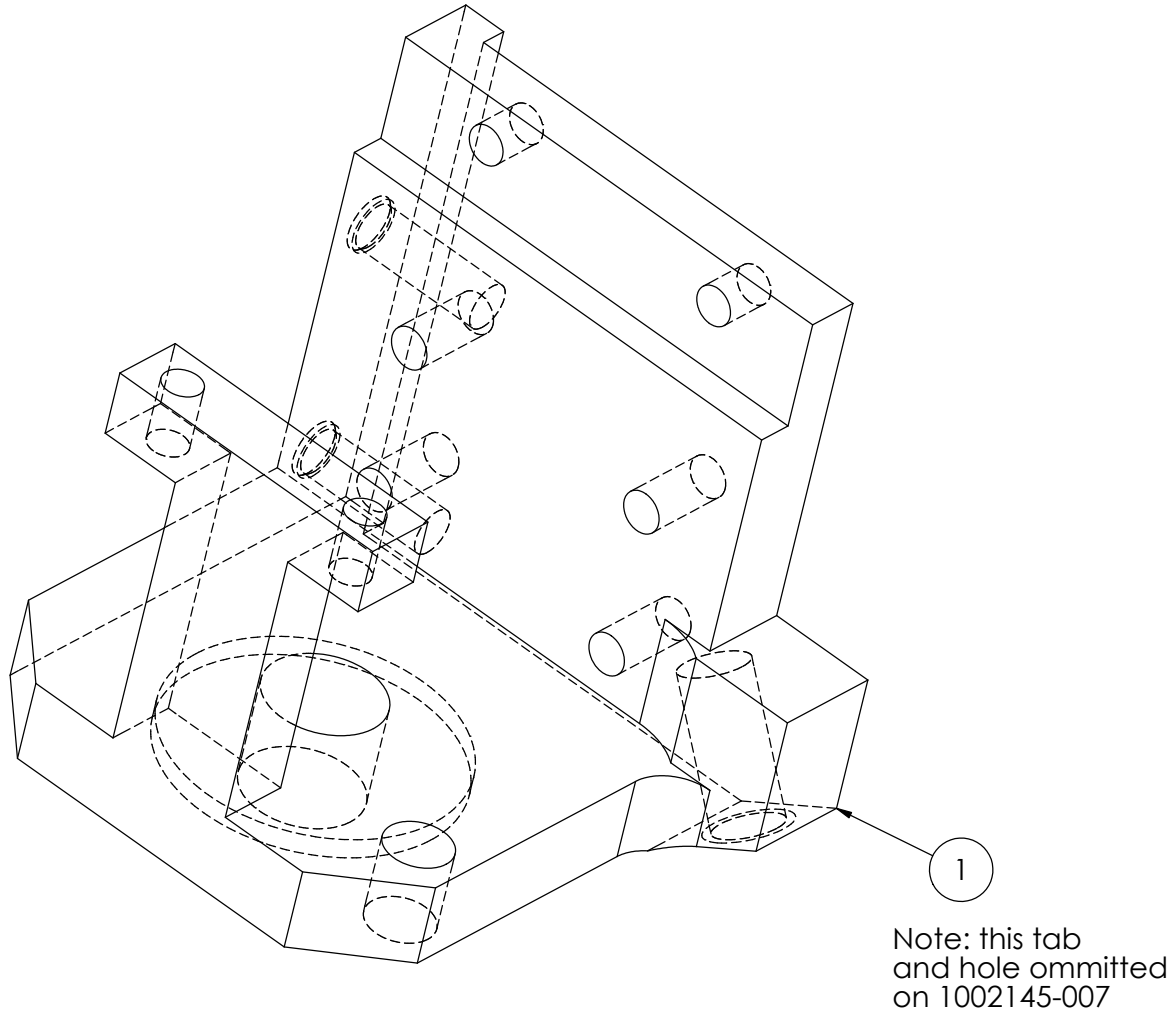
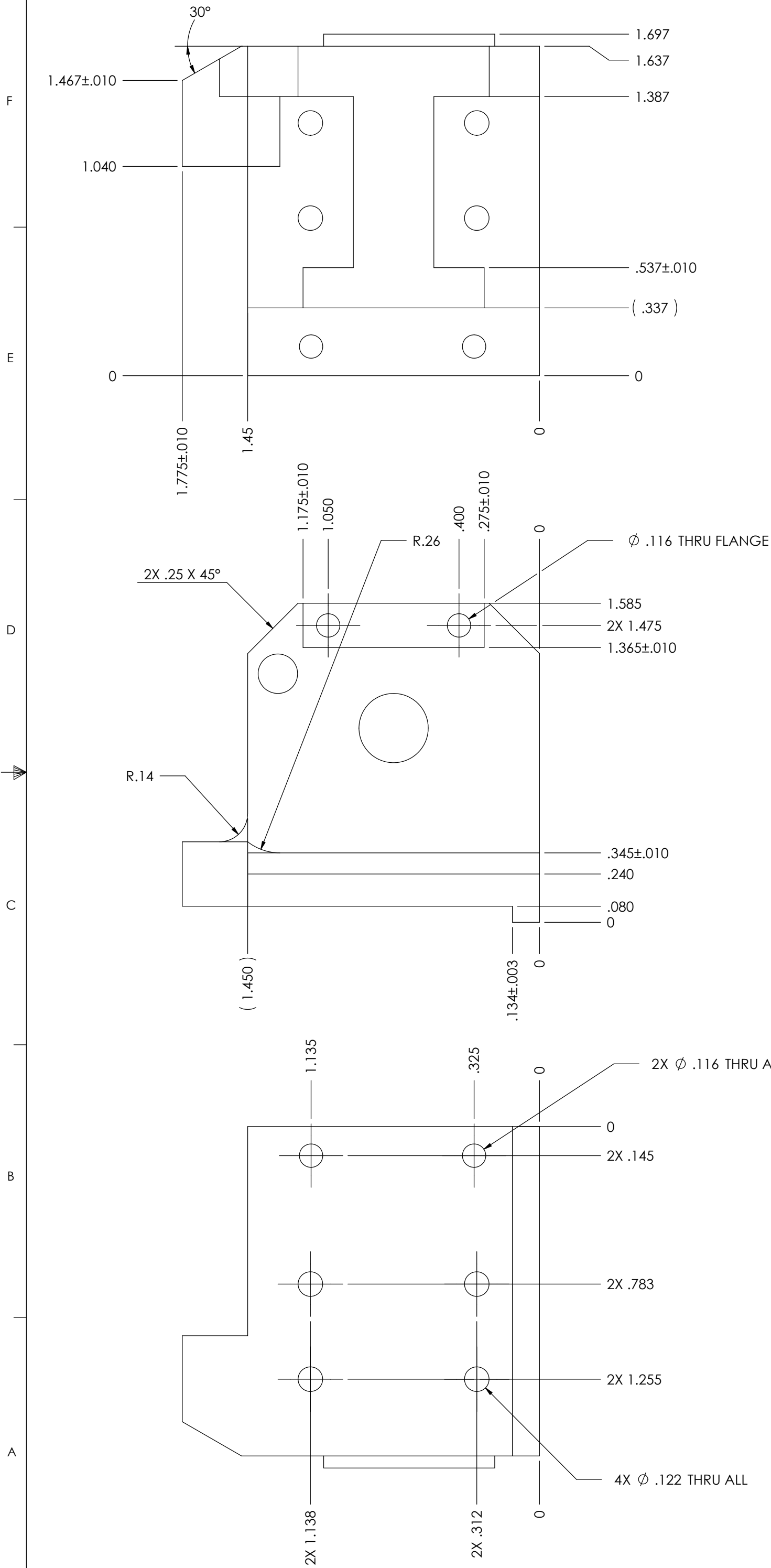


Processing Clamp

SIZE C DWG. NO. 1002145 REV. I

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MBARI ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF MBARI IS PROHIBITED

CLAMP - SPRING MOUNT
1002145-006



ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
6	1002145-006	Clamp - Processing bottom	7075-T6 Aluminum	1

BILL OF MATERIALS				last updated on: Thursday, March 30, 2006 2:24:01 PM	
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS	DATE
Inspector		2 PLACE DIM $\pm$.01	3 PLACE DIM $\pm$.005	4 PLACE DIM $\pm$.0005	ANGLES $\pm$ 1°
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING 3. REMOVE BURRS & SHARP EDGES .010 MAX 4. MACHINED FILLET RADII .010 TO .020 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005			
Engineer		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .001 PER INCH. MAX .010 INCHES FOR SINGLE SURFACE. 7. SURFACE FINISH TO BE 63 MICRON UNLESS OTHERWISE SPECIFIED			
NEXT ASSY Description	NEXT ASSY Number	PROJECT NUMBER 701312.00		CHECKED	
		PROJECT ESP 2G		PROJECT NUMBER 701312.00	
DO NOT SCALE DRAWING		CAD FILE: (Tornado) X:\ProjectLibrary\701312 ESP 2G\SolidWorks files		SHEET 5 OF 13	

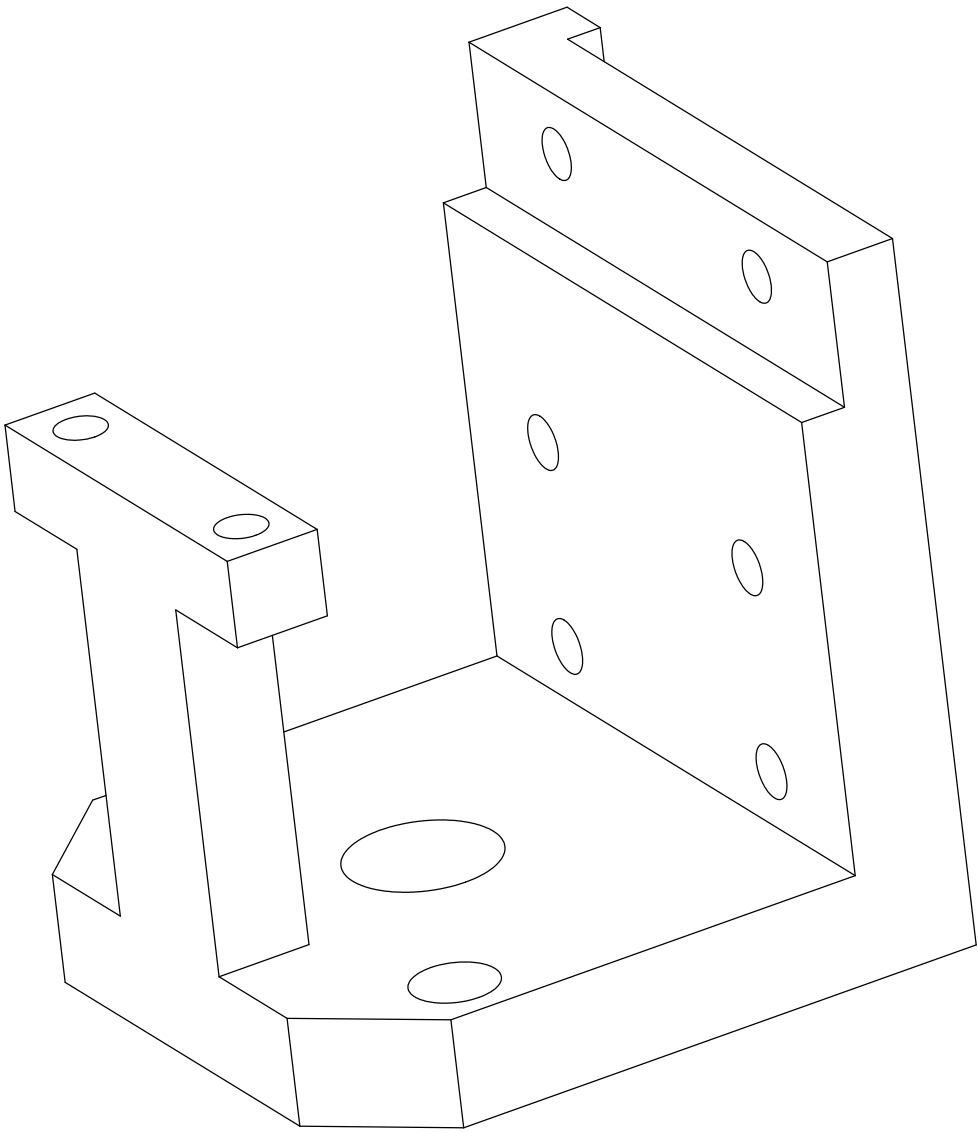
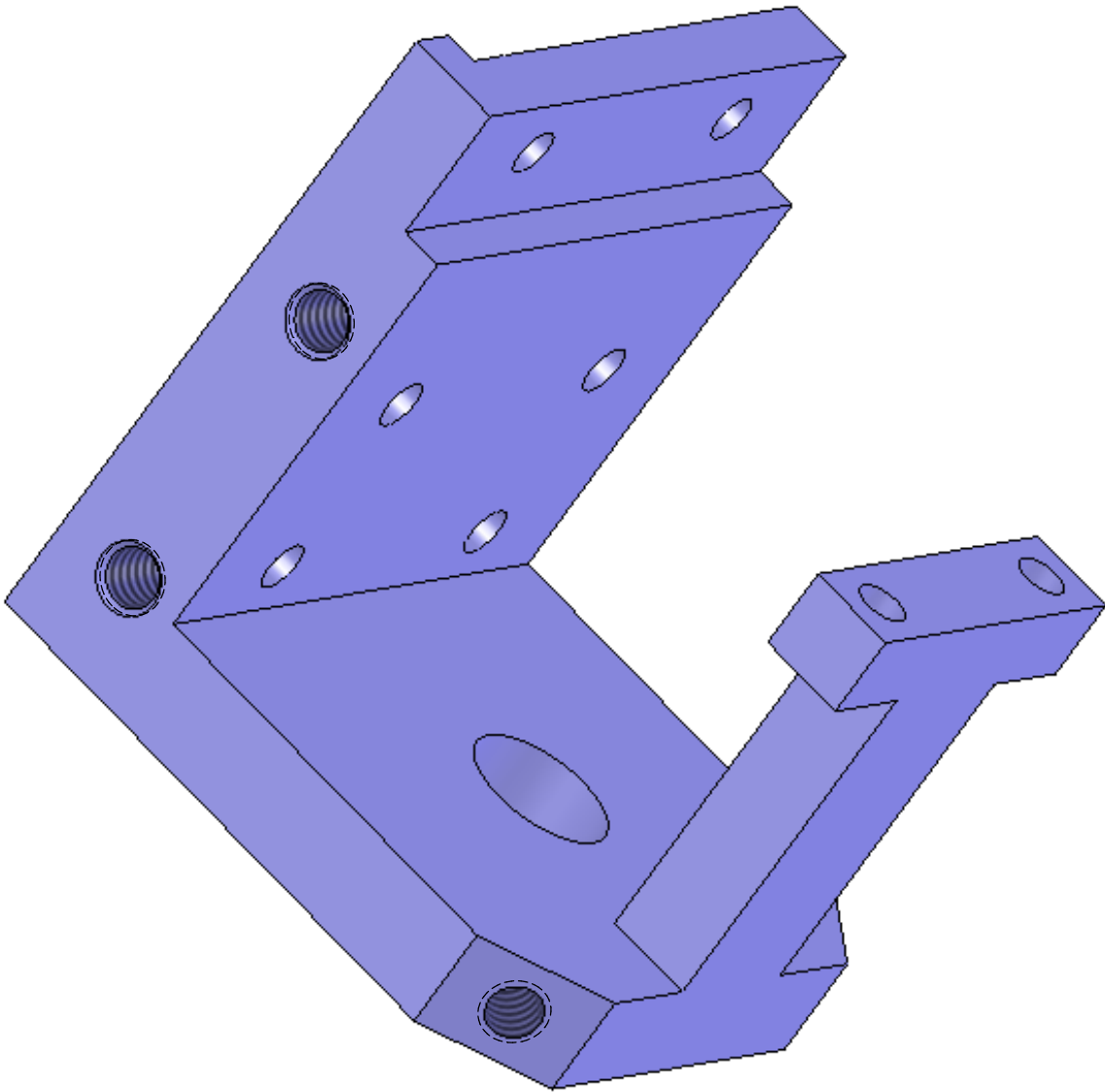
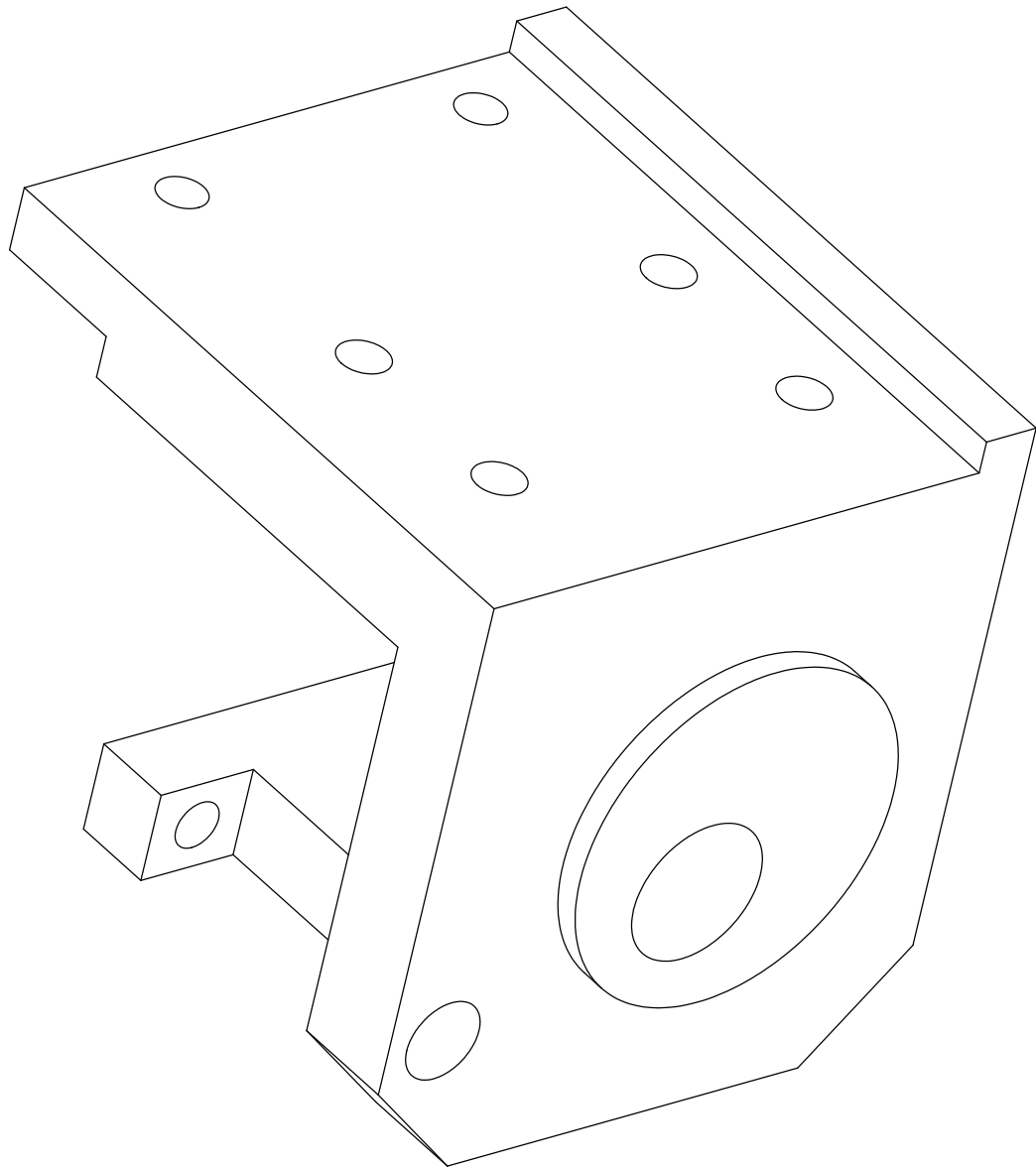
Monterey Bay Aquarium Research Institute		7700 Sandholdt Road Moss Landing, CA 95039	
Processing Clamp		SIZE C	
DWG. NO. 1002145		REV. I	



THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MBARI ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF MBARI IS PROHIBITED

CLAMP - SPRING MOUNT
1002145-008-(COLLECTION)

NOTE: IDENTICAL TO 1002145-006
PART WITHOUT 1/4-20 TAB



ITEM NO. n/a	PART NUMBER 1002145-008-COLLECTION	DESCRIPTION Collection Clamp - spring mount	MATERIAL 7075-T6 Aluminum	QTY. 1
BILL OF MATERIALS			last updated on: Thursday, March 30, 2006 2:24:01 PM	
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE
Inspector		2 PLACE DIM ±.01	3 PLACE DIM ±.005	4 PLACE DIM ±.0005
Shop Foreman		ANGLES ±1°		ENGINEER Jason Feldman 831-775-1837
Engineer		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING 3. REMOVE BURRS & SHARP EDGES .010 MAX 4. MACHINED FILLET RADII .010 TO .020 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005		7700 Sandholdt Road Moss Landing, CA 95039
NEXT ASSY Description	NEXT ASSY Number	6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .001 PER INCH. MAX .010 INCHES FOR SINGLE SURFACE. 7. SURFACE FINISH TO BE 63 MICRON UNLESS OTHERWISE SPECIFIED		PROJECT NUMBER 701312.00
DO NOT SCALE DRAWING		PROJECT ESP 2G		Processing Clamp
		C		SIZE DWG. NO. 1002145
		I		REV. I
CAD FILE: (Tornado) X:/ProjectLibrary/701312 ESP 2G/SolidWorks files				SHEET 6 OF 13

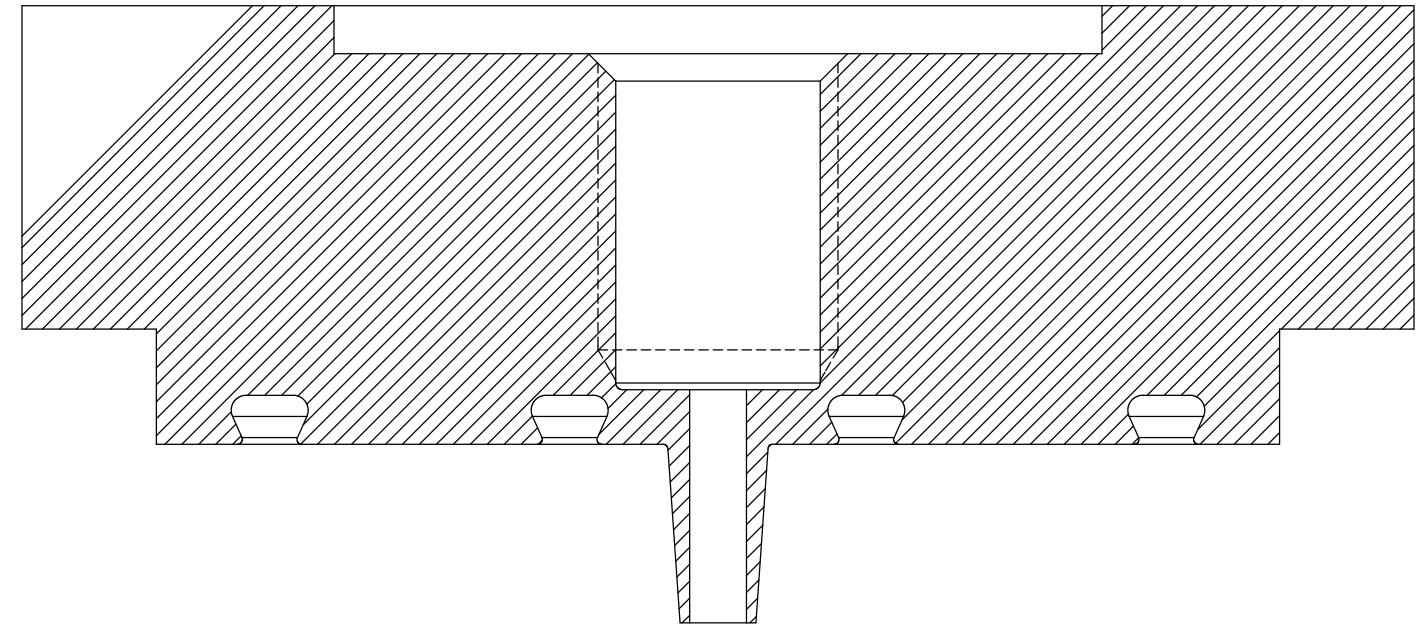
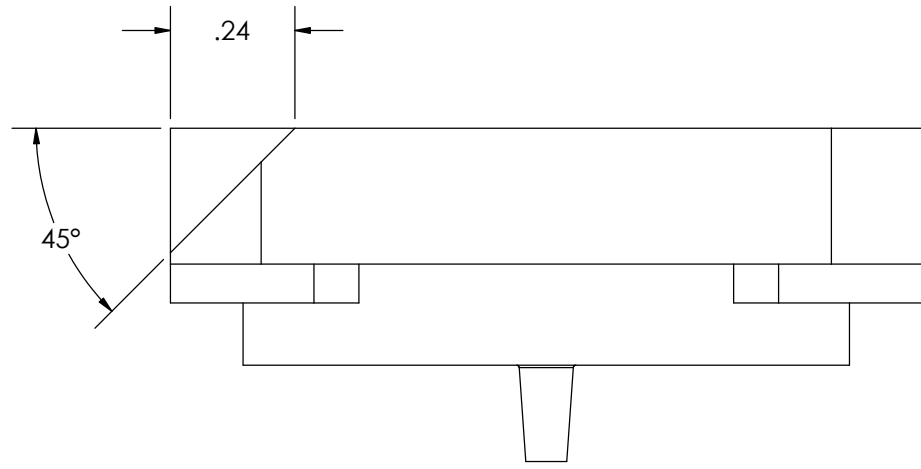
Monterey Bay Aquarium Research Institute
7700 Sandholdt Road
Moss Landing, CA
95039



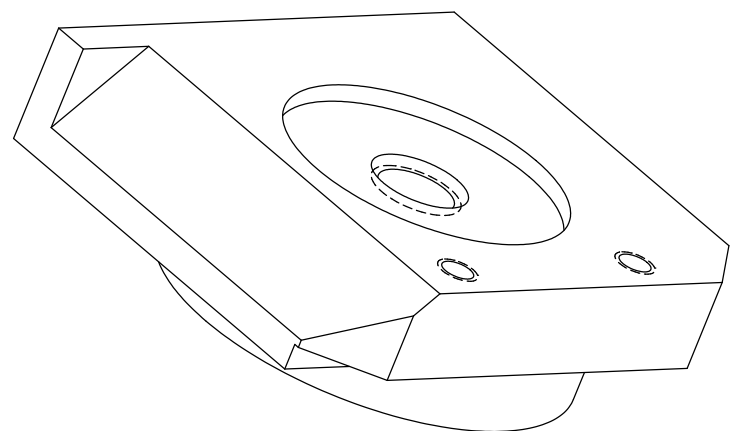
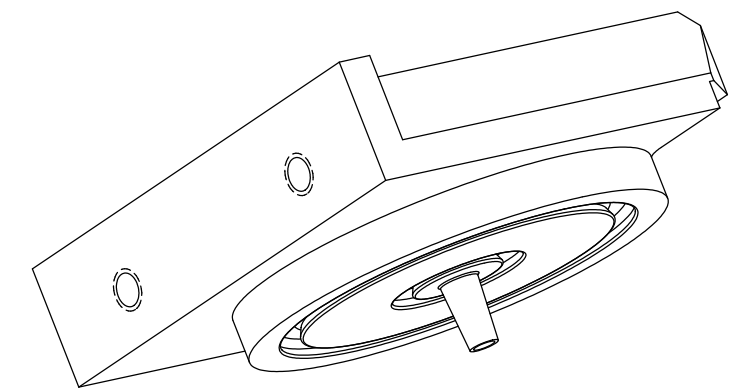
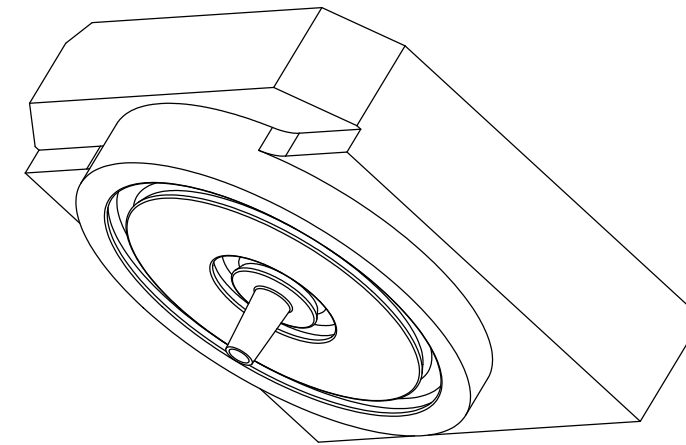
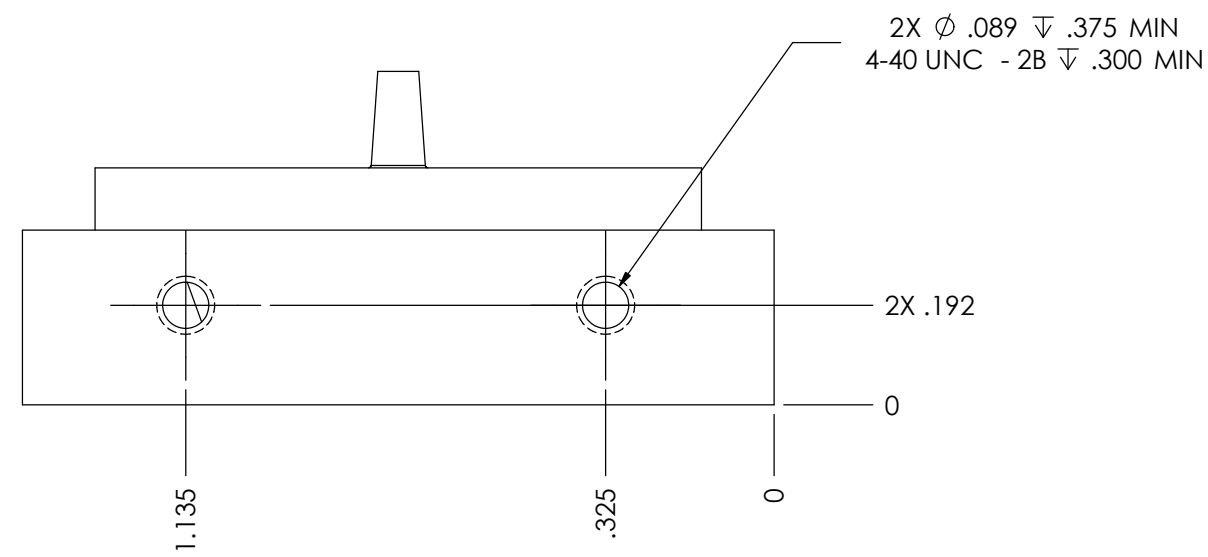
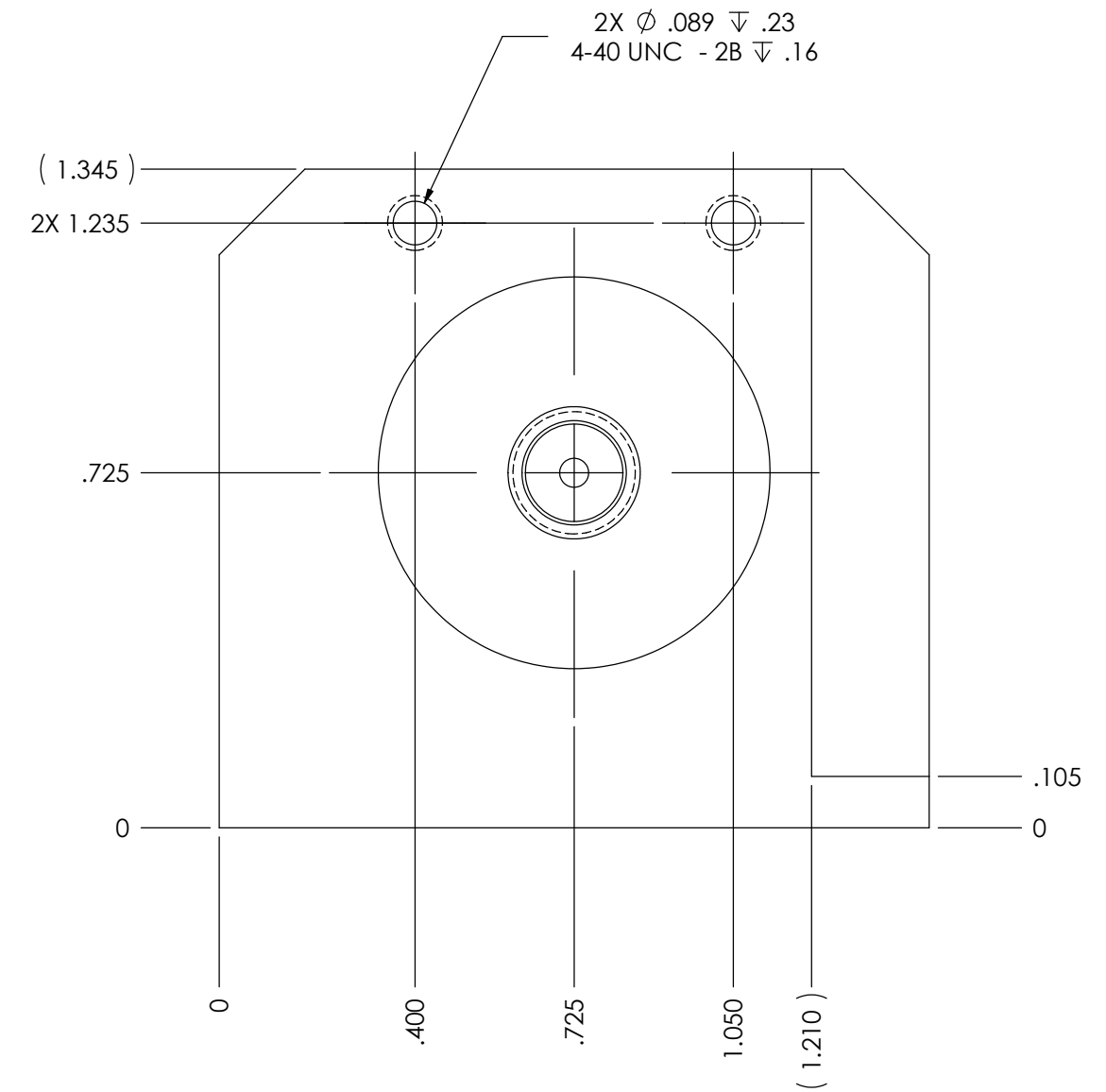
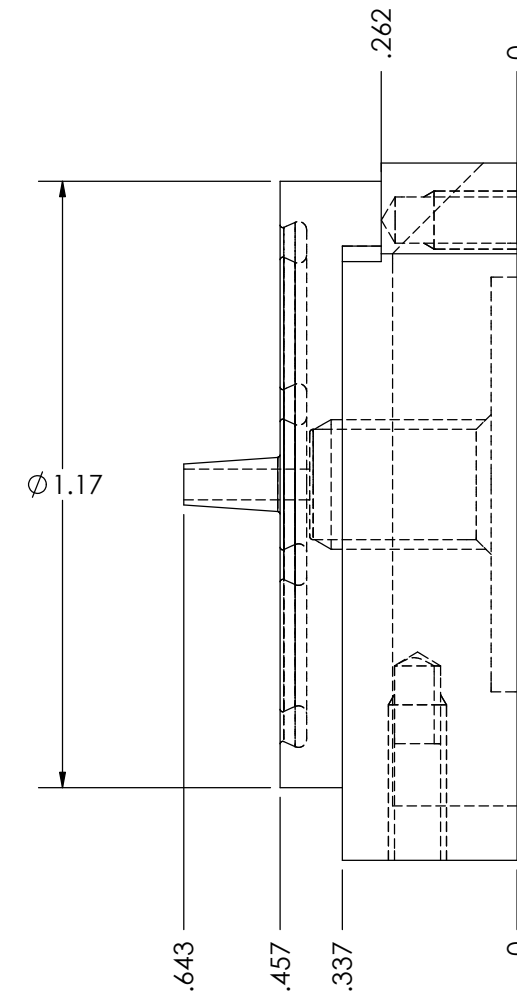
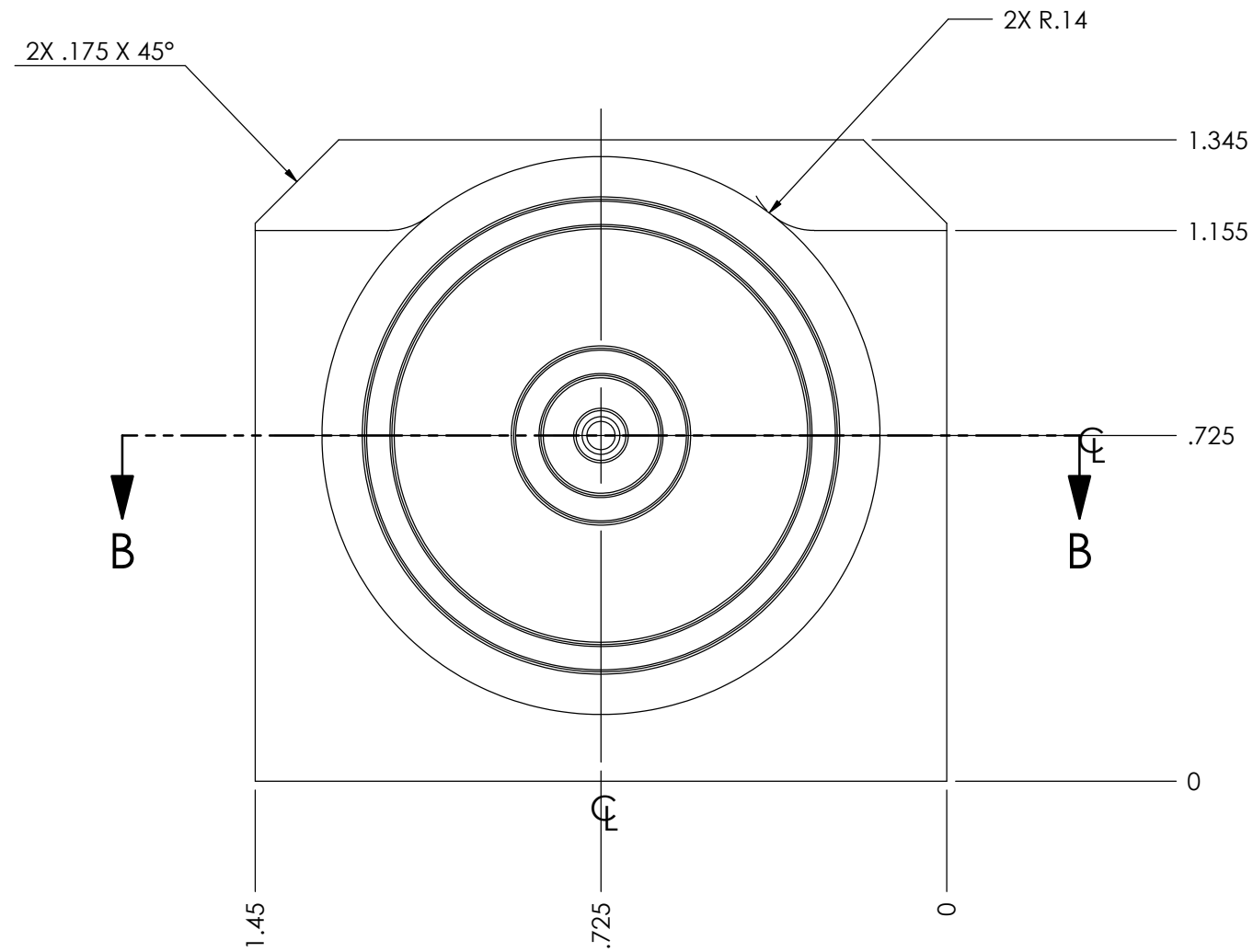
Processing Clamp

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MBARI ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF MBARI IS PROHIBITED

CLAMP - GASKET MOUNT 1002145-013



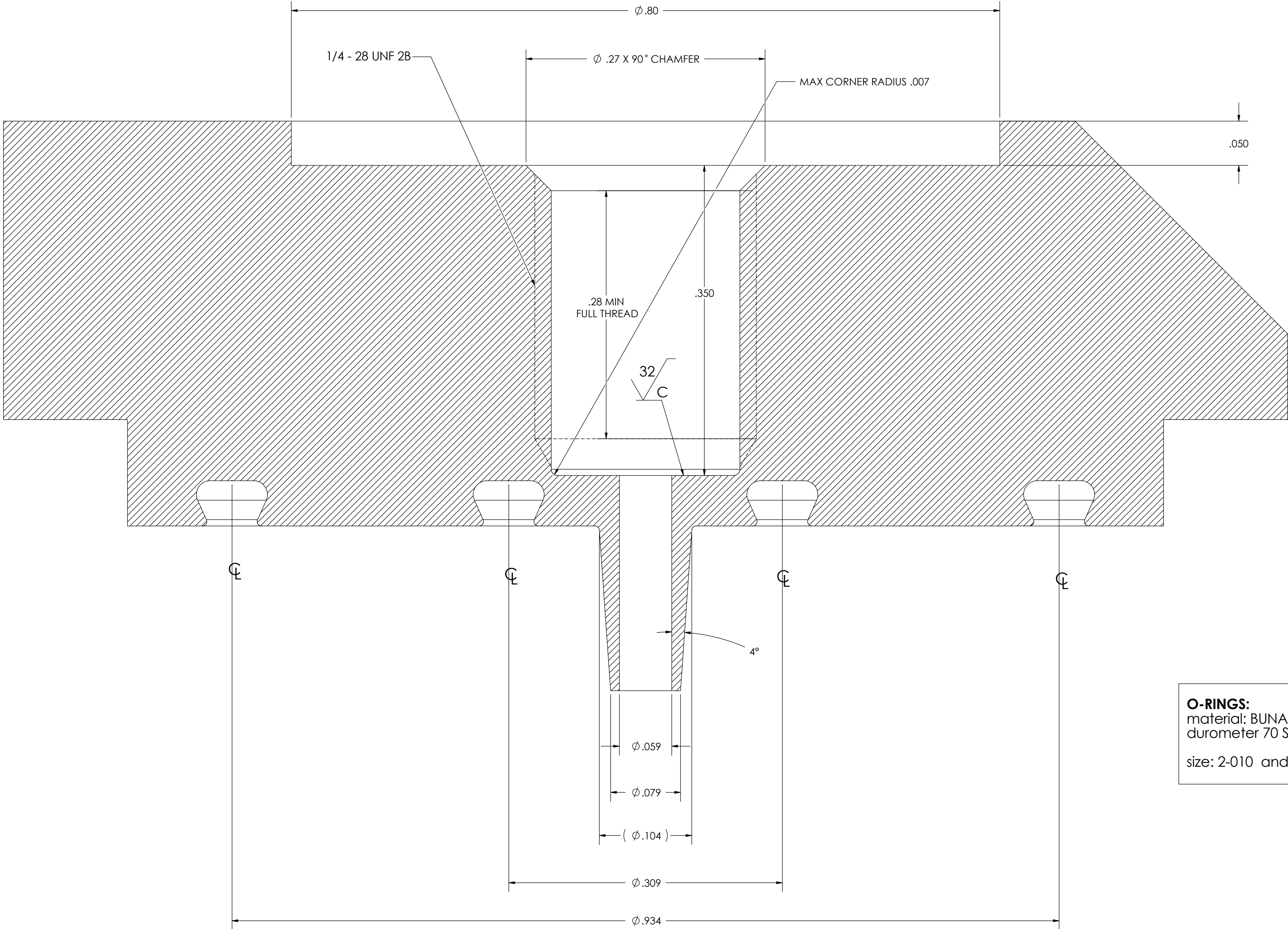
SECTION B-B



MORE DETAILS TO FOLLOW ON NEXT SHEET

ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
12	1002145-013	Clamp - pressure connection	PEEK (no fill)	2
BILL OF MATERIALS				
Shop / Q.C.		last updated on: Thursday, March 30, 2006 2:24:01 PM		
Inspector		APPROVALS DATE		
Shop Foreman		ENGINEER Jason Feldman 831-775-1837		
Engineer		CHECKED		
NEXT ASSY Description	NEXT ASSY Number	PROJECT NUMBER 701312.00		
DO NOT SCALE DRAWING		PROJECT ESP 2G		
		SIZE C DWG. NO. 1002145 REV. I		
		CAD FILE: (Tornado) X:\ProjectLibrary\701312 ESP 2G\SolidWorks files SHEET 7 OF 13		

CLAMP - GASKET MOUNT
(DETAIL)



O-RINGS:
material: BUNA-N
durometer 70 Shore A

size: 2-010 and size 2-020

SECTION B - B

TYPICAL O-RING DIMENSIONS (SHEET 13)

BILL OF MATERIALS						last updated on: Thursday, March 30, 2006 2:24:01 PM	
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS DATE	
Inspector		2 PLACE DIM ±.01	3 PLACE DIM ±.005	4 PLACE DIM ±.0005	ANGLES ±1°	Monterey Bay Aquarium Research Institute 7700 Sandholdt Road Moss Landing, CA 95039 	
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING 3. REMOVE BURRS & SHARP EDGES .010 MAX 4. MACHINED FILLET RADII .010 TO .020					
Engineer		5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005					
NEXT ASSY Description	NEXT ASSY Number	6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .001 PER INCH. MAX .010 INCHES FOR SINGLE SURFACE.					
DO NOT SCALE DRAWING		7. SURFACE FINISH TO BE 63 MICRON UNLESS OTHERWISE SPECIFIED				PROJECT NUMBER 701312.00	
						PROJECT ESP 2G	SIZE C
						DWG. NO. 1002145	
						REV. I	
CAD FILE: (Tornado) X:/ProjectLibrary/701312 ESP 2G/SolidWorks files						SHEET 8 OF 13	

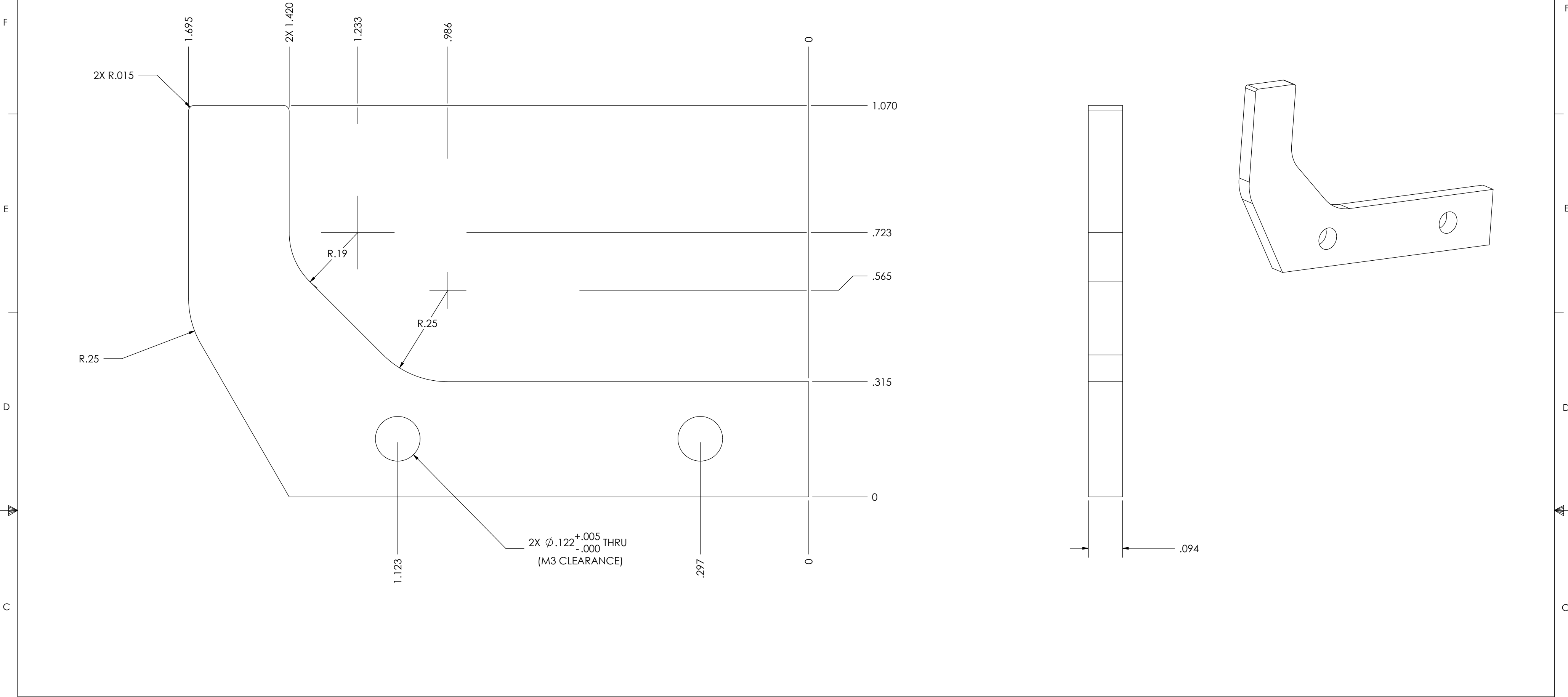
Monterey Bay Aquarium Research Institute
7700 Sandholdt Road
Moss Landing, CA
95039



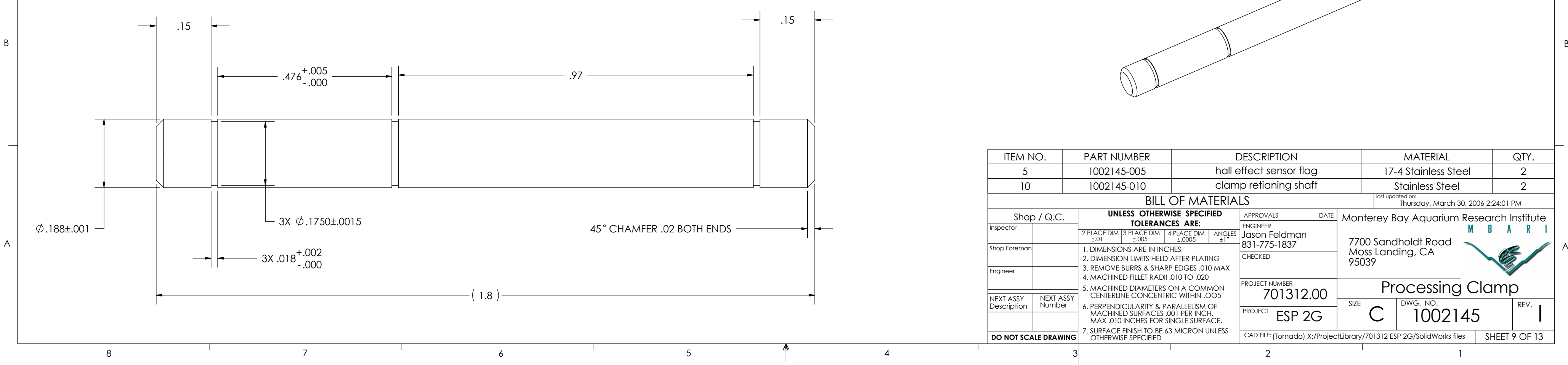
Processing Clamp

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MBARI ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF MBARI IS PROHIBITED

HALL EFFECT SENSOR FLAG
1002145-005



CLAMP - RETAINING ROD
1002145-010



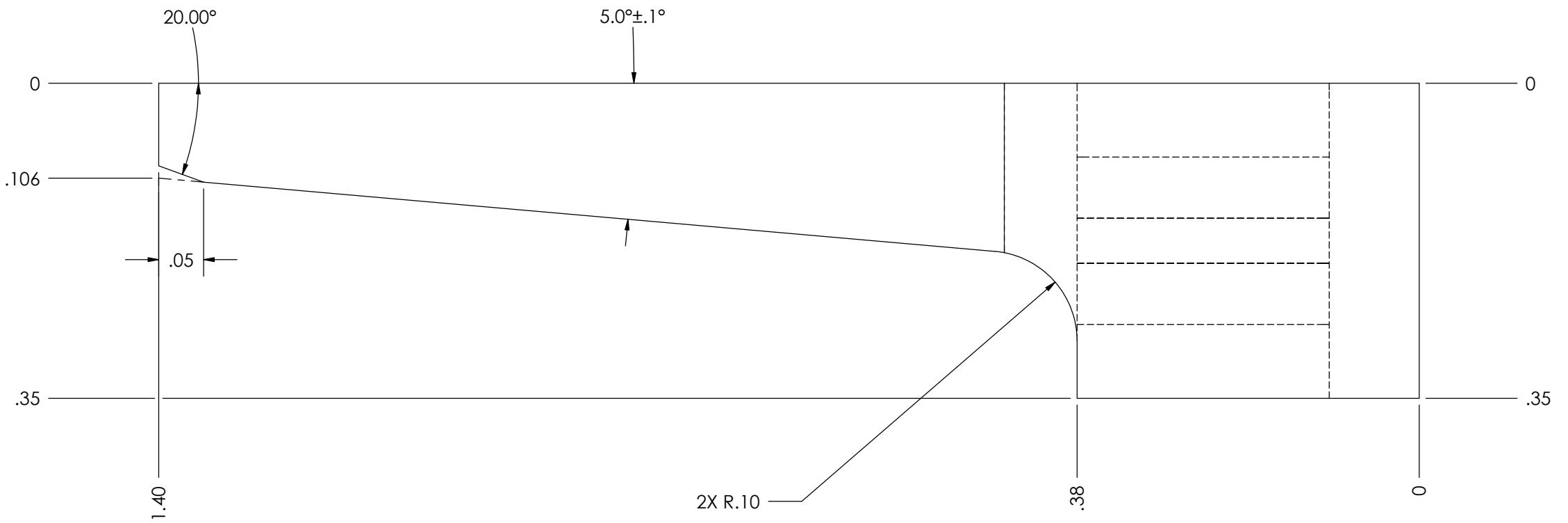
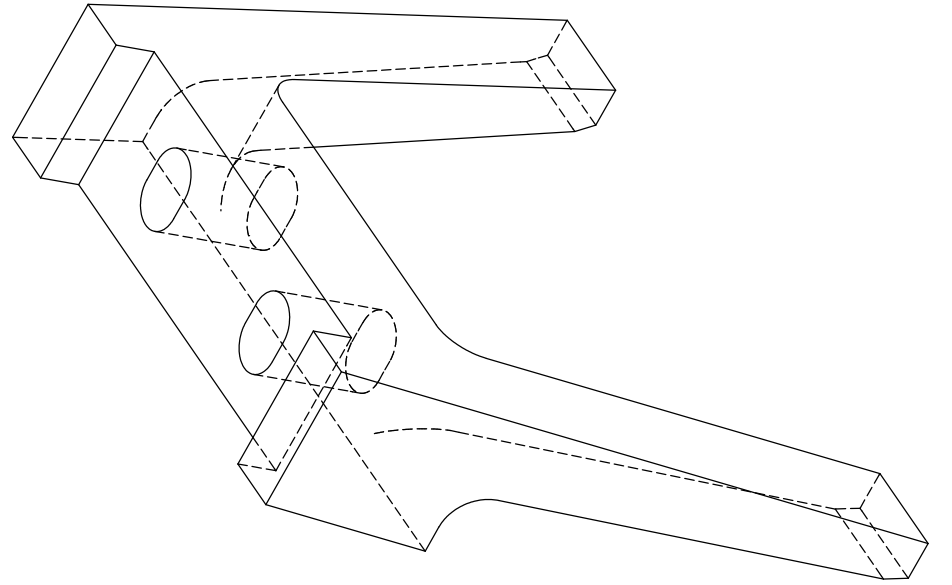
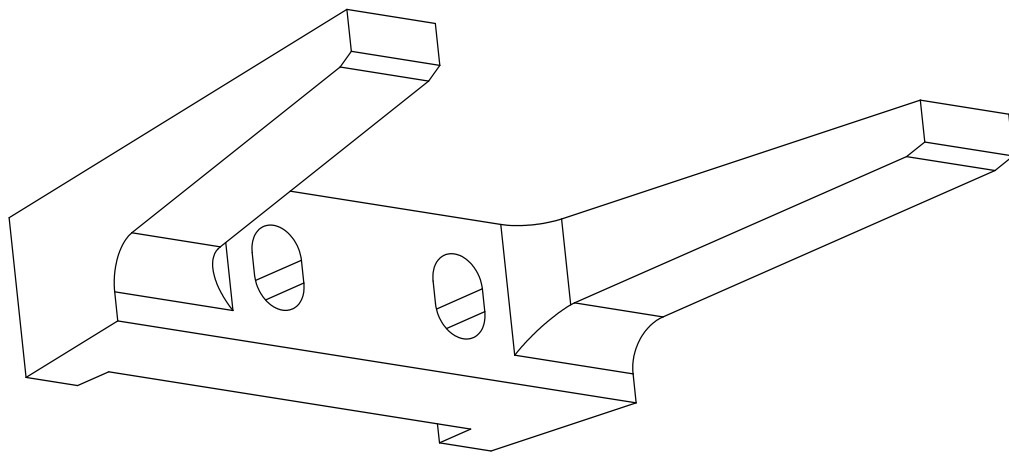
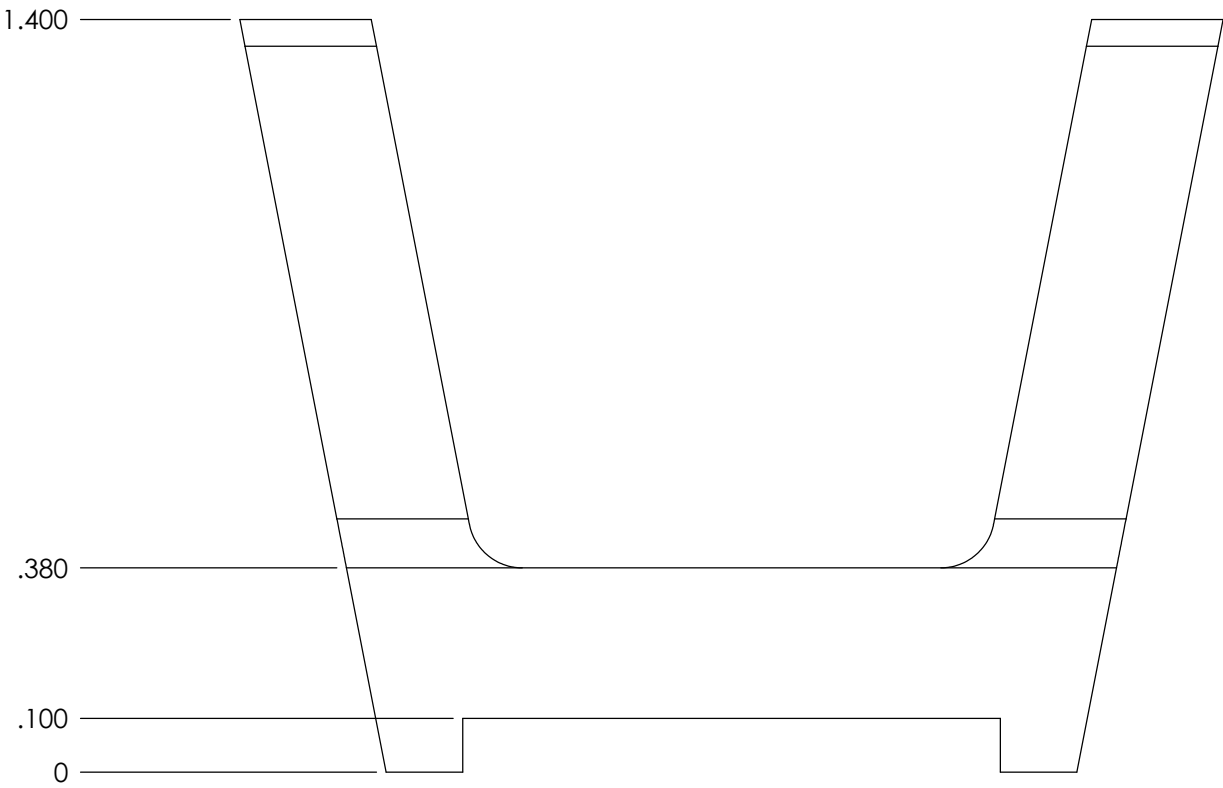
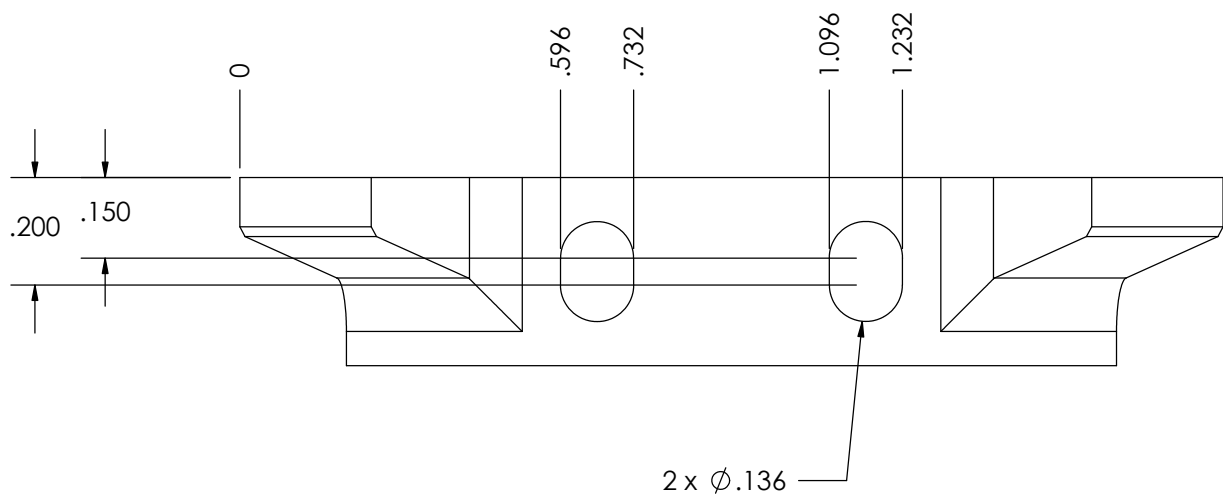
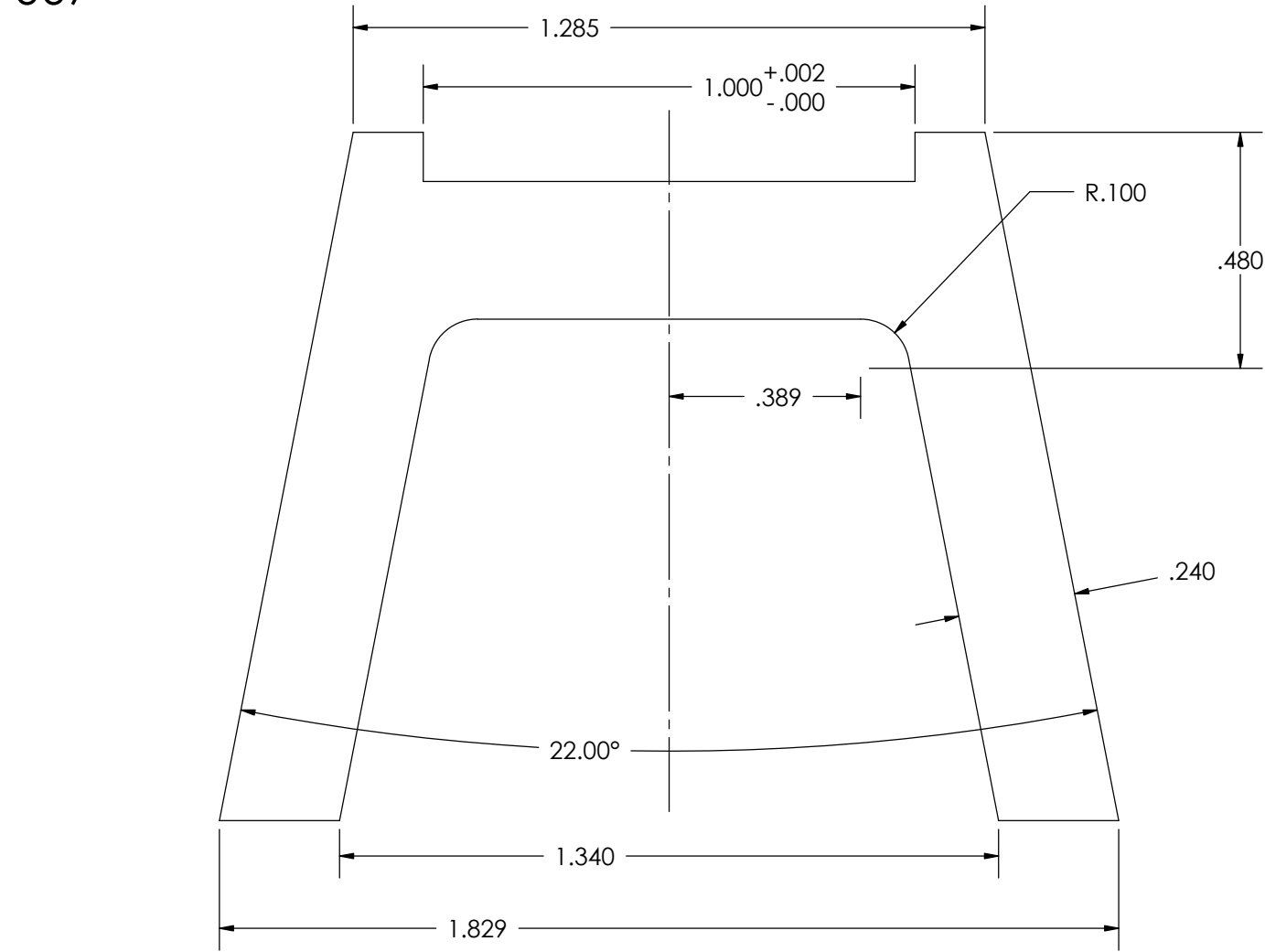
ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
5	1002145-005	hall effect sensor flag	17-4 Stainless Steel	2
10	1002145-010	clamp retaining shaft	Stainless Steel	2

BILL OF MATERIALS			last updated on: Thursday, March 30, 2006 2:24:01 PM	
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:	APPROVALS	DATE
Inspector		2 PLACE DIM ±.01 3 PLACE DIM ±.005 4 PLACE DIM ±.0005 ANGLES ±1°	ENGINEER Jason Feldman 831-775-1837	Monterey Bay Aquarium Research Institute 7700 Sandholdt Road Moss Landing, CA 95039
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING 3. REMOVE BURRS & SHARP EDGES .010 MAX 4. MACHINED FILLET RADII .010 TO .020 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .001 PER INCH. MAX .010 INCHES FOR SINGLE SURFACE. 7. SURFACE FINISH TO BE 63 MICRON UNLESS OTHERWISE SPECIFIED	CHECKED	
Engineer			PROJECT NUMBER 701312.00	
NEXT ASSY Description	NEXT ASSY Number		PROJECT ESP 2G	SIZE C
DO NOT SCALE DRAWING			DWG. NO. 1002145	REV. I
CAD FILE: (Tornado) X:/ProjectLibrary/701312 ESP 2G/SolidWorks files			SHEET 9 OF 13	

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MBARI. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF MBARI IS PROHIBITED.

CLAMP - GRIPPER CONTACT

1002145-007



ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
7	1002145-007	Clamp - puck retainer	7075-T6 Aluminum	2

BILL OF MATERIALS					last updated on: Thursday, March 30, 2006 2:24:01 PM		
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:			APPROVALS DATE		
Inspector		2 PLACE DIM ±.01	3 PLACE DIM ±.005	4 PLACE DIM ±.0005	ENGINEER Jason Feldman 831-775-1837	Monterey Bay Aquarium Research Institute 7700 Sandholdt Road Moss Landing, CA 95039 	
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING 3. REMOVE BURRS & SHARP EDGES .010 MAX 4. MACHINED FILLET RADII .010 TO .020 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .001 PER INCH, MAX .010 INCHES FOR SINGLE SURFACE. 7. SURFACE FINISH TO BE 63 MICRON UNLESS OTHERWISE SPECIFIED					
Engineer							
NEXT ASSY Description	NEXT ASSY Number	PROJECT NUMBER 701312.00			CHECKED		
		PROJECT ESP 2G			PROJECT NUMBER 701312.00		
DO NOT SCALE DRAWING		SIZE C			DWG. NO. 1002145		
					REV. I		
CAD FILE: (Tornado) X:/ProjectLibrary/701312 ESP 2G/SolidWorks files					SHEET 10 OF 13		

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MBARI. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF MBARI IS PROHIBITED.

THERMAL SENSOR MOUNT
1002145-009

F

E

D

C

B

A

F

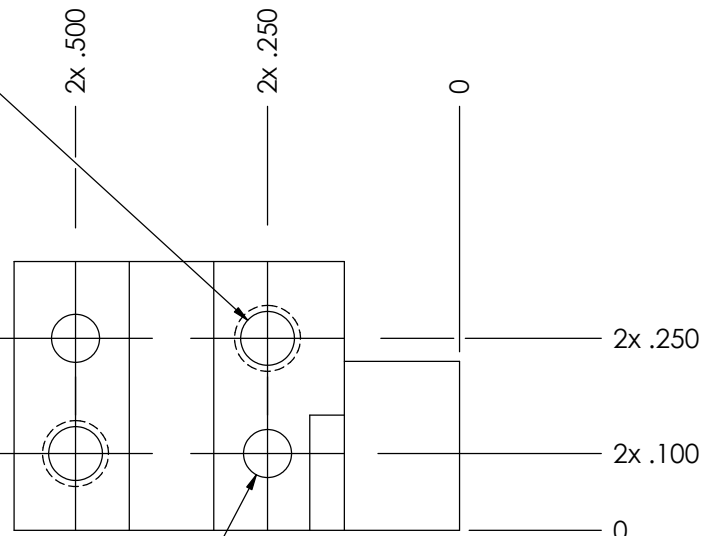
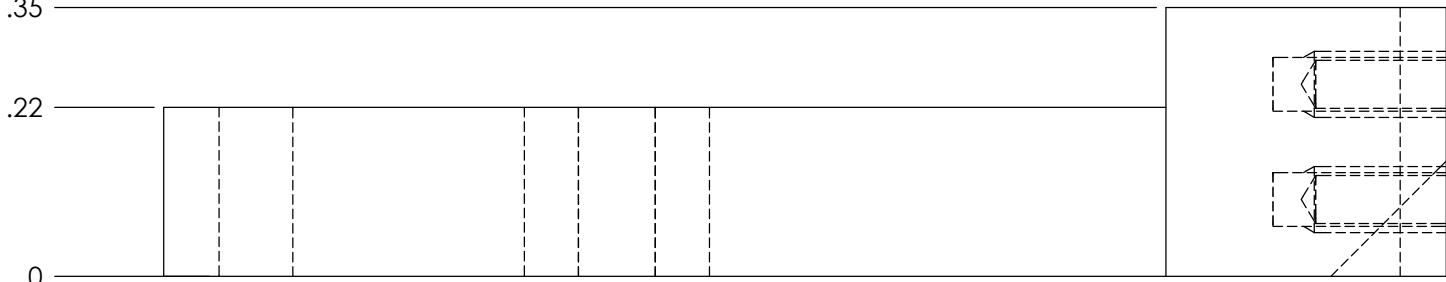
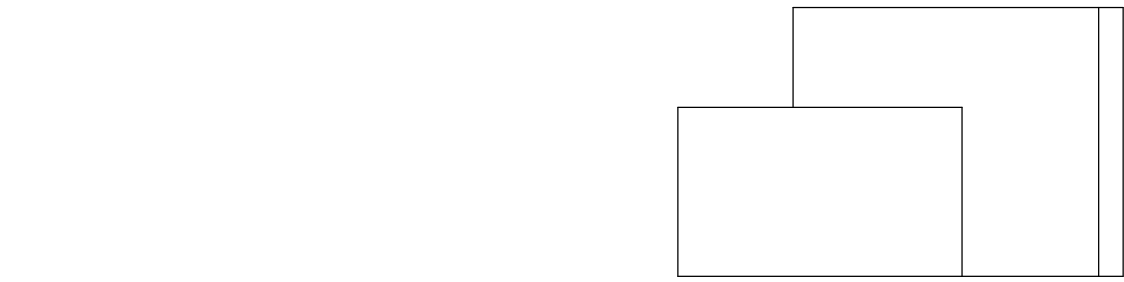
E

D

C

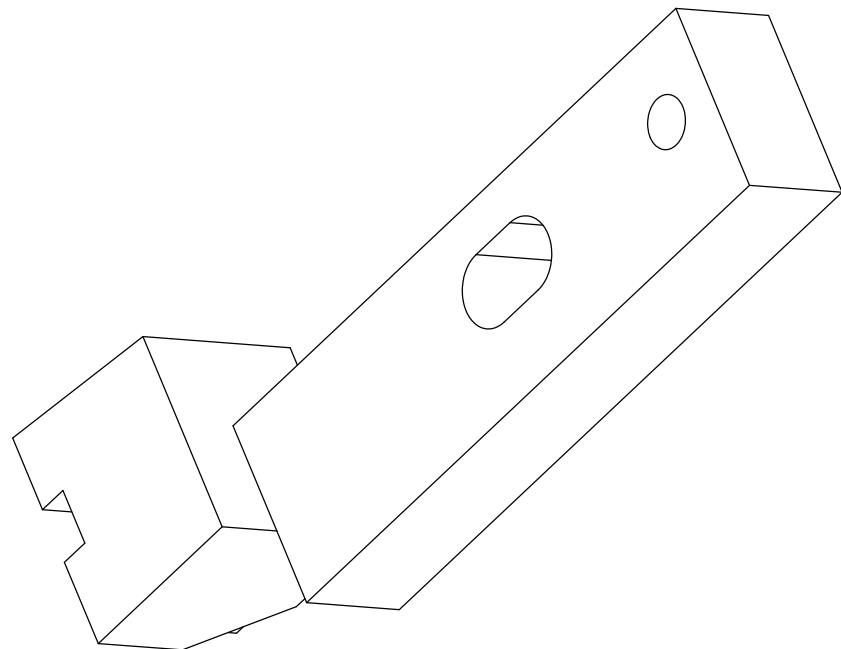
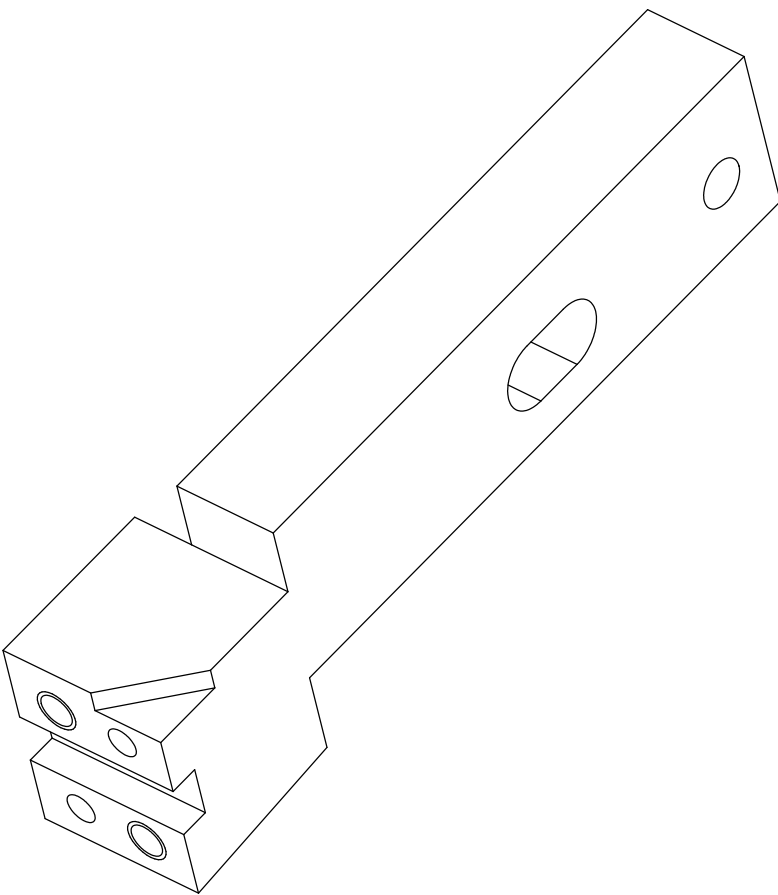
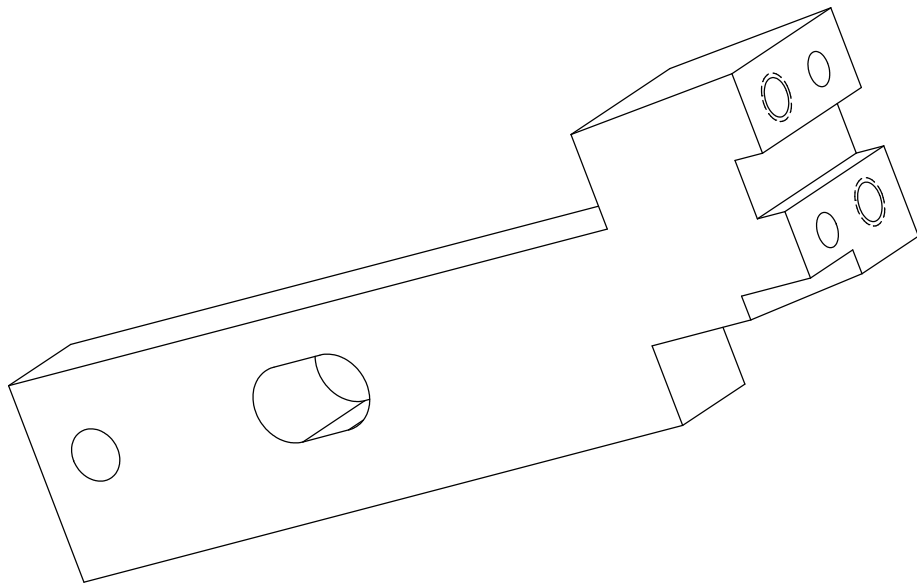
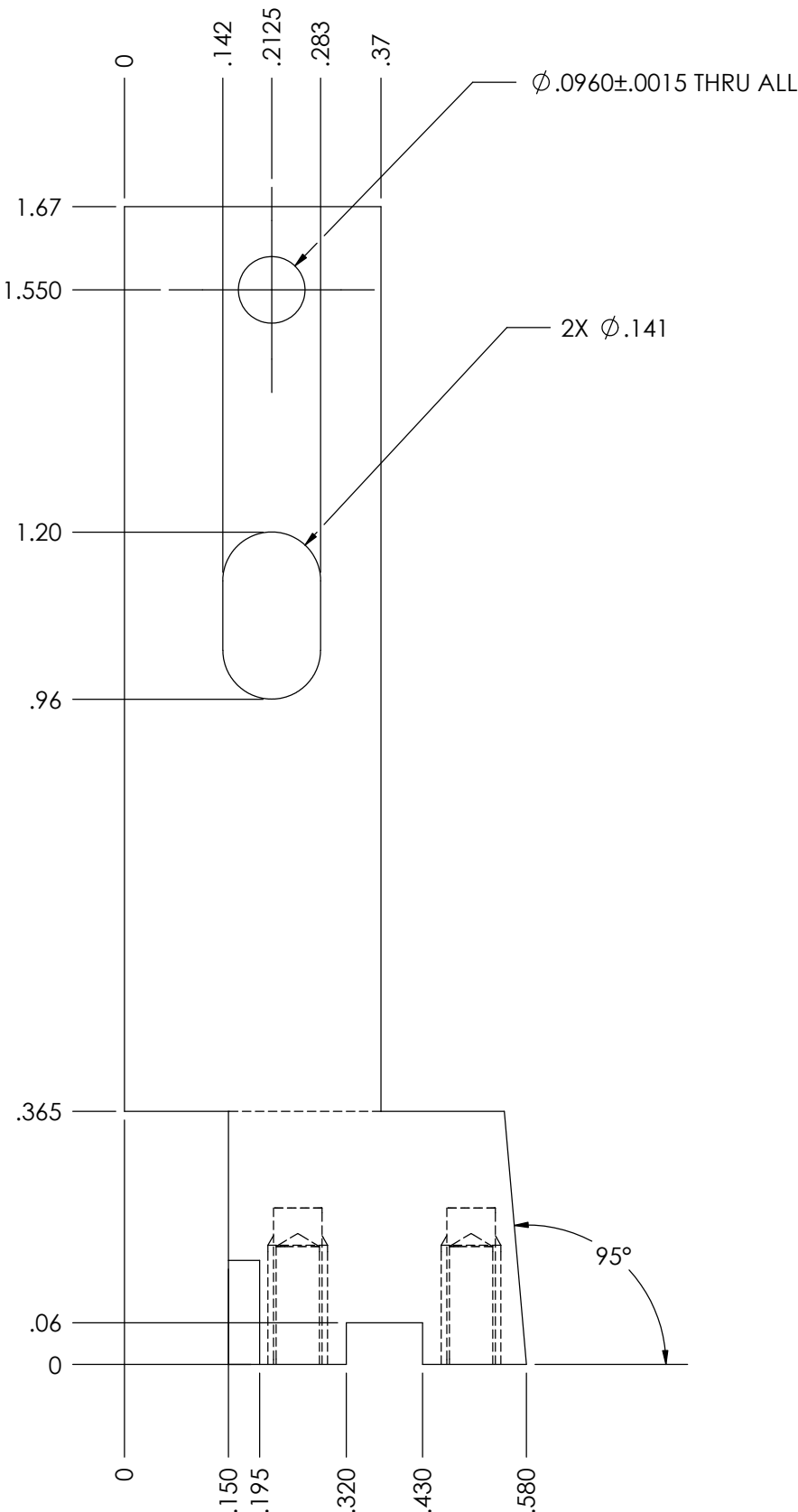
B

A



2X $\varnothing$.070 ∇ .226 MIN
2-56 UNC - 2B ∇ .172 MIN

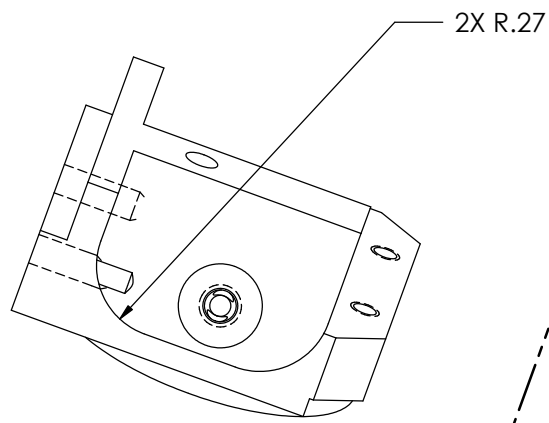
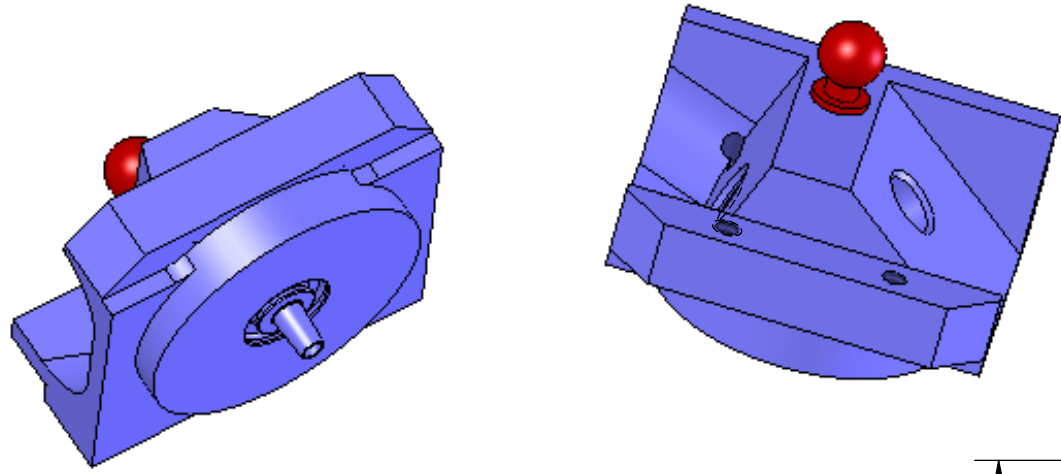
2X $\varnothing$.0625^{+.0000}_{-.0002} ∇ .17



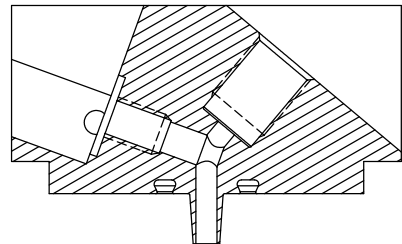
ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
9	1002145-009	Temperature sensor mount	Grade G10/FR4 Garolite	2
BILL OF MATERIALS			last updated on: Thursday, March 30, 2006 2:24:01 PM	
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		
Inspector		2 PLACE DIM ±.01	3 PLACE DIM ±.005	4 PLACE DIM ±.0005
Shop Foreman		ANGLES ±1°		
Engineer		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING 3. REMOVE BURRS & SHARP EDGES .010 MAX 4. MACHINED FILLET RADII .010 TO .020 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .001 PER INCH. MAX .010 INCHES FOR SINGLE SURFACE. 7. SURFACE FINISH TO BE 63 MICRON UNLESS OTHERWISE SPECIFIED		
NEXT ASSY Description	NEXT ASSY Number	APPROVALS DATE		
		ENGINEER Jason Feldman 831-775-1837		
		CHECKED		
		PROJECT NUMBER 701312.00		
		PROJECT ESP 2G		
DO NOT SCALE DRAWING		Monterey Bay Aquarium Research Institute 7700 Sandholdt Road Moss Landing, CA 95039		
		Processing Clamp		
		SIZE C	DWG. NO. 1002145	REV. I
CAD FILE: (Tornado) X:/ProjectLibrary/701312 ESP 2G/SolidWorks files				SHEET 11 OF 13

CLAMP - PRESSURE SENSOR MOUNT

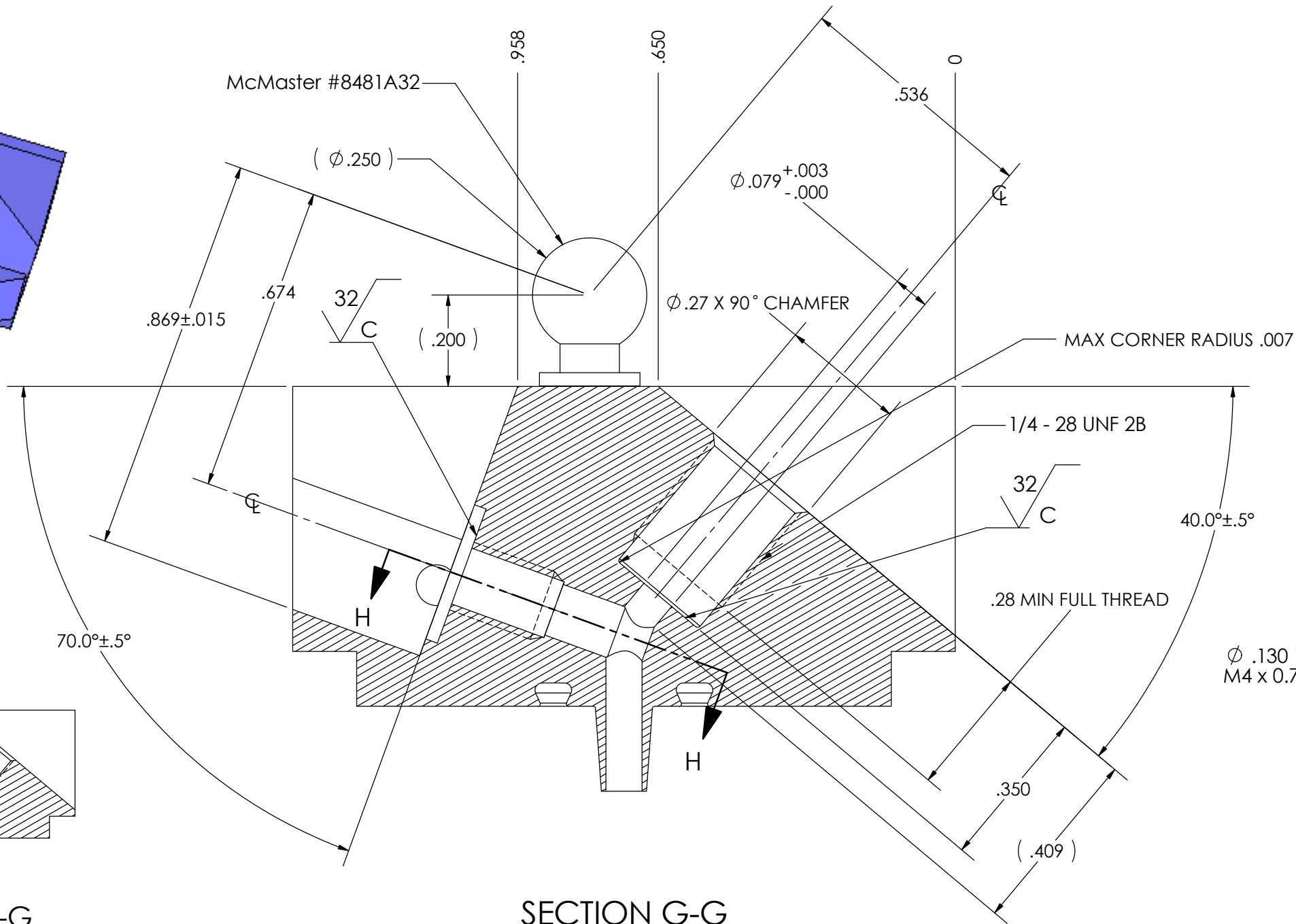
1002145-012 (Collection)



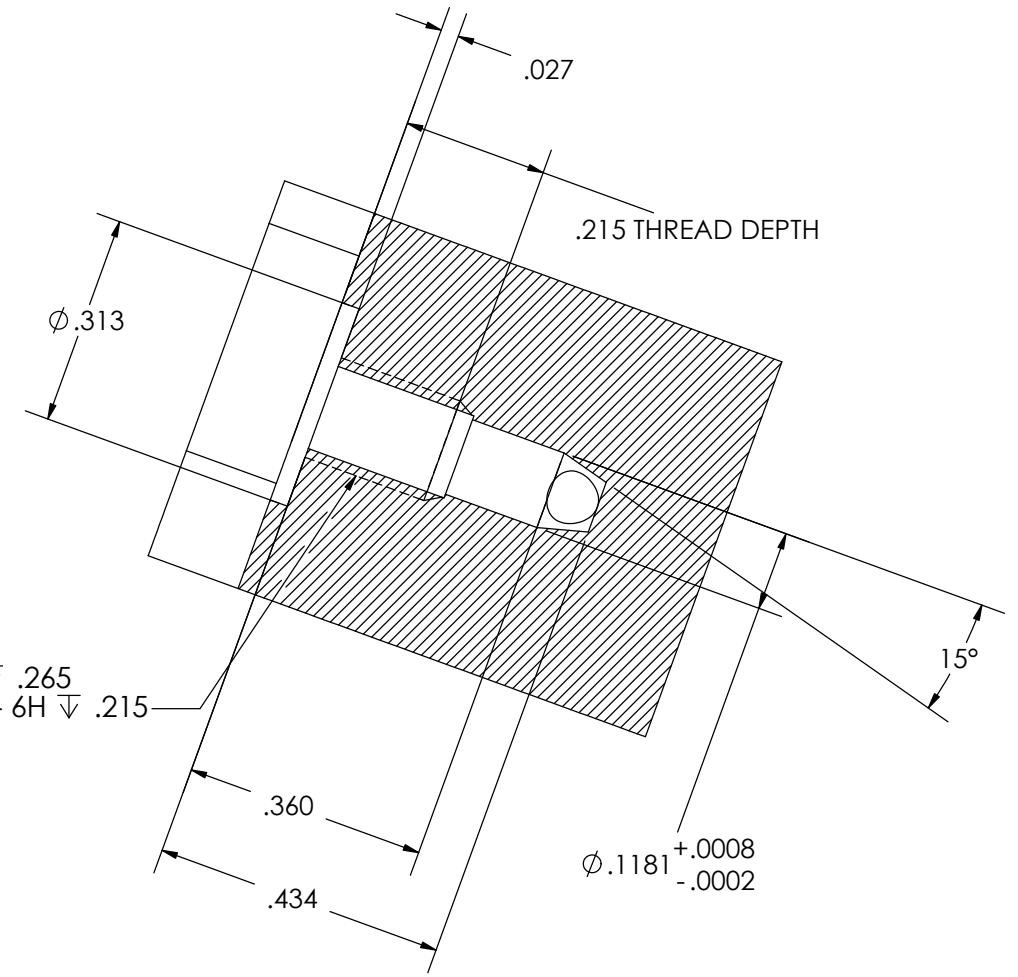
VIEW I-I
SCALE 1.4 : 1



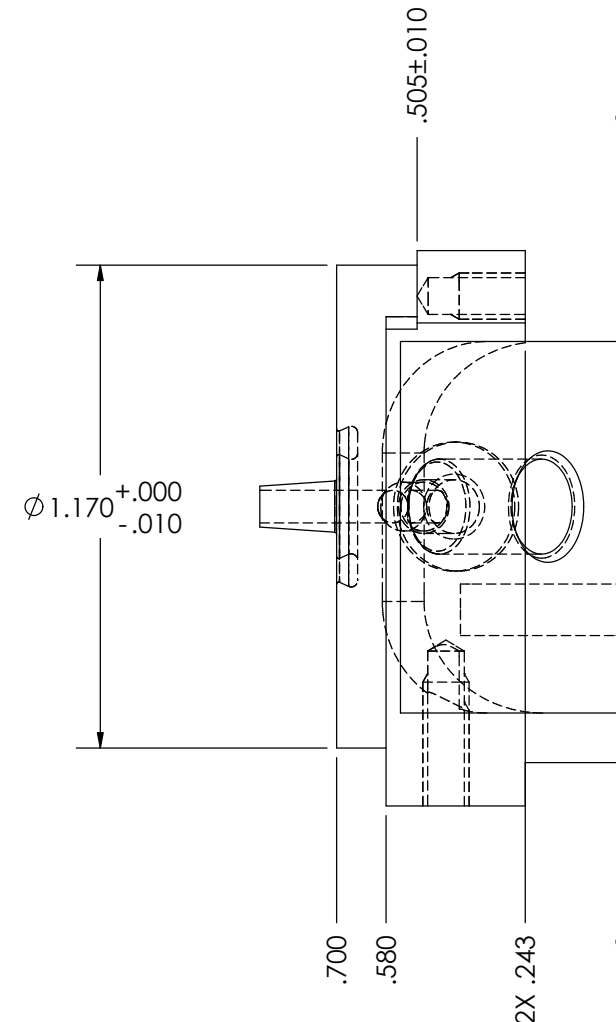
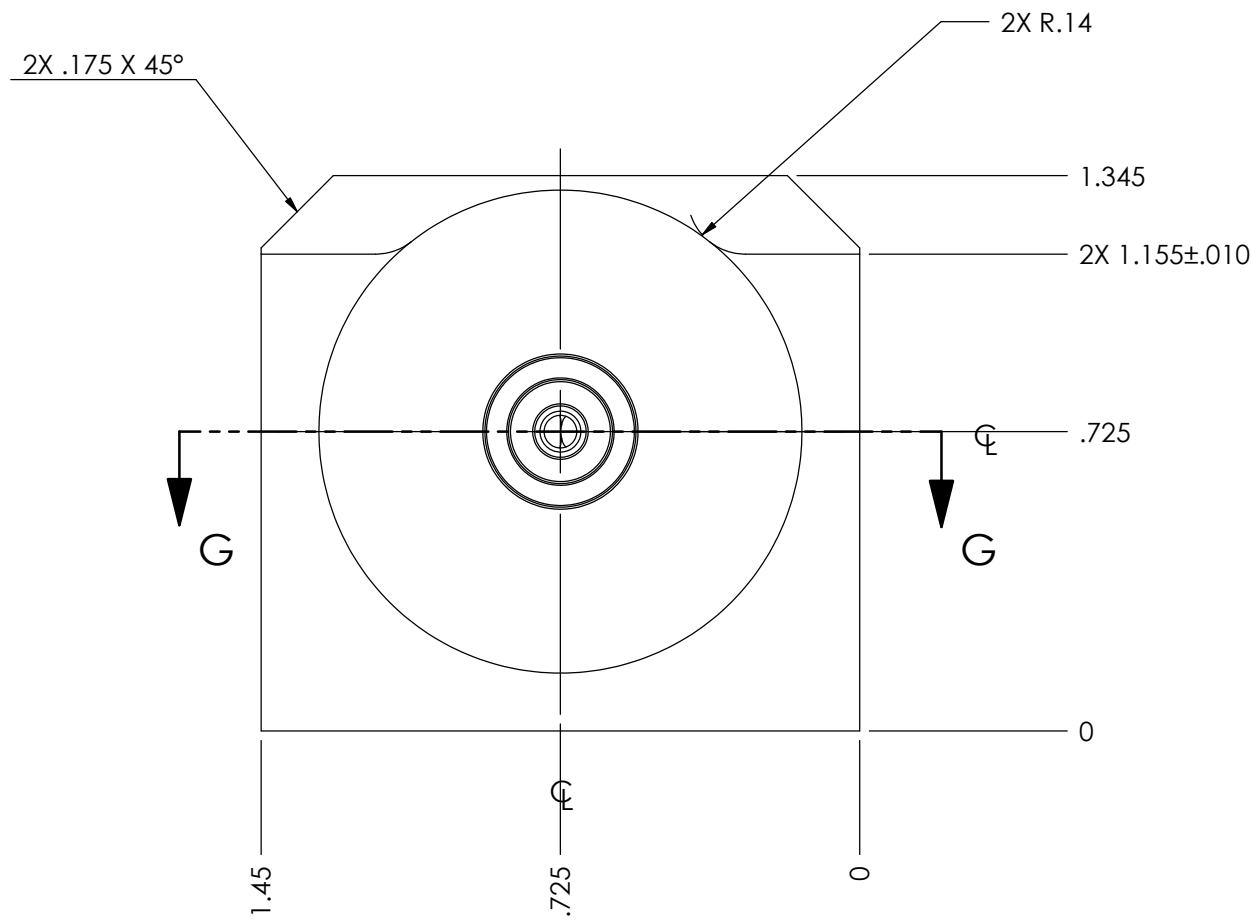
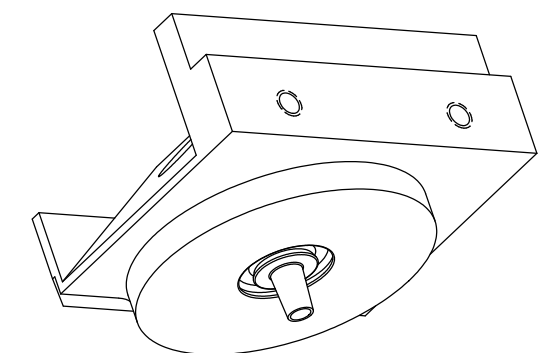
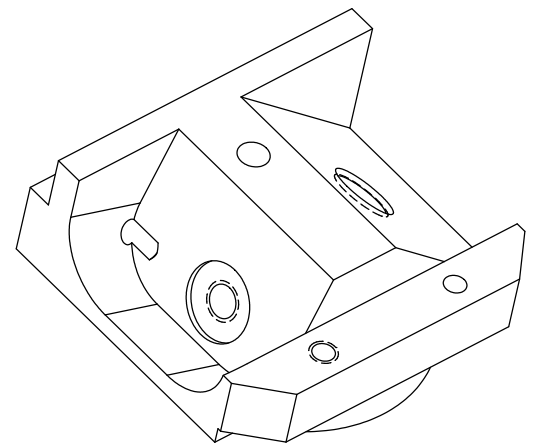
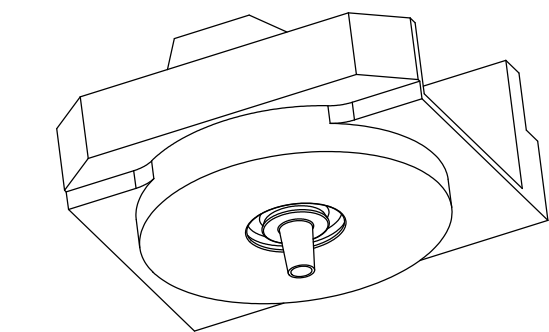
SECTION G-G



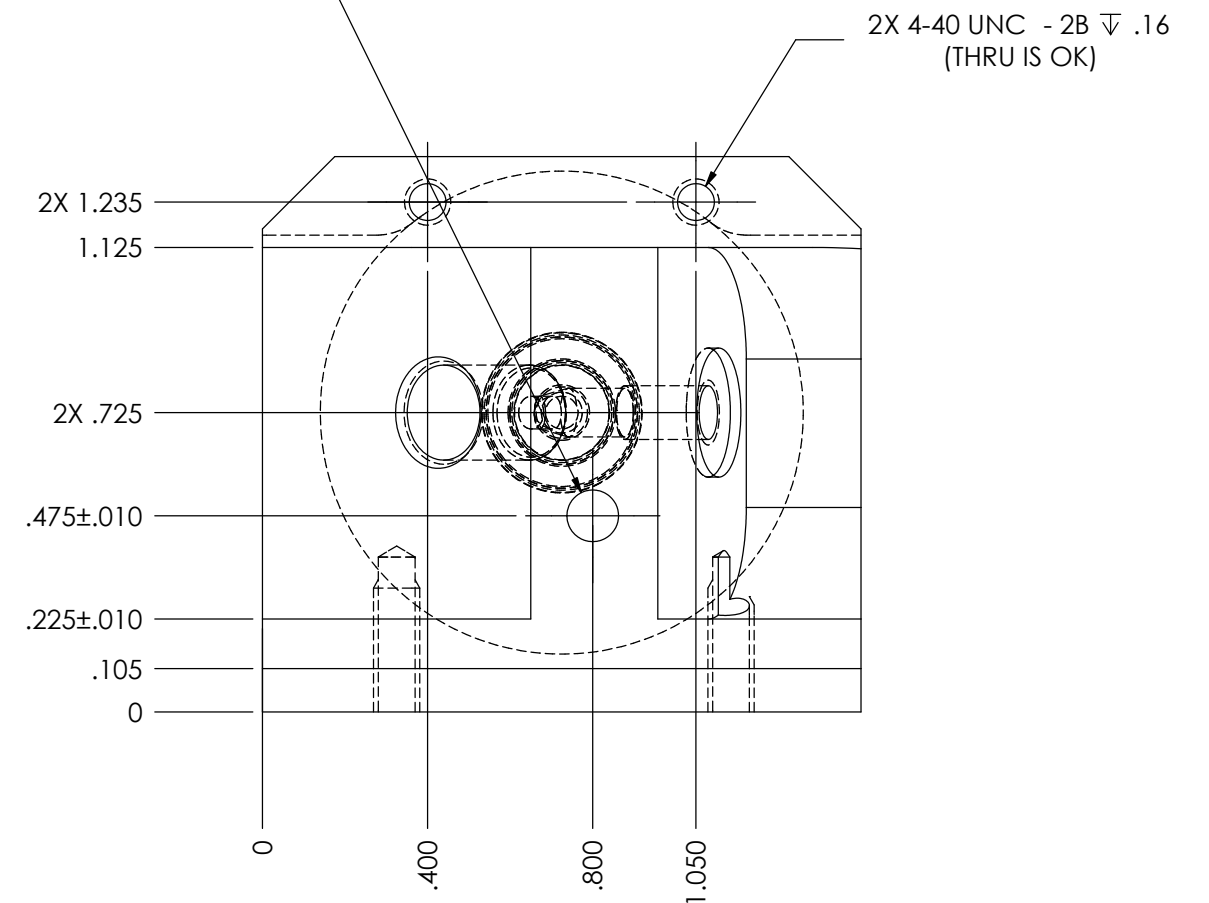
SECTION G-G
SCALE 3.5 : 1



SECTION H-H (DETAIL)



$\phi .1250 \nabla .40$
FOR TOOLING BALL (FN1)



ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
12	1002145-012	Clamp - pressure connection	PEEK (no fill)	2

BILL OF MATERIALS					last updated on: Thursday, March 30, 2006 2:24:01 PM		
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS	DATE	Monterey Bay Aquarium Research Institute	
Inspector		2 PLACE DIM ±.01	3 PLACE DIM ±.005	4 PLACE DIM ±.0005	ANGLES ±1°	ENGINEER Jason Feldman 831-775-1837	
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING 3. REMOVE BURRS & SHARP EDGES .010 MAX 4. MACHINED FILLET RADII .010 TO .020 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .001 PER INCH. MAX. .010 INCHES FOR SINGLE SURFACE. 7. SURFACE FINISH TO BE 63 MICRON UNLESS OTHERWISE SPECIFIED				CHECKED	7700 Sandholdt Road Moss Landing, CA 95039
Engineer						PROJECT NUMBER 701312.00	Collection Clamp
NEXT ASSY Description	NEXT ASSY Number					PROJECT ESP 2G	
DO NOT SCALE DRAWING		CAD FILE: (Tornado) X:\ProjectLibrary\701312 ESP 2G\SolidWorks files				SHEET 12 OF 13	

Monterey Bay Aquarium Research Institute
7700 Sandholdt Road
Moss Landing, CA
95039

Collection Clamp

SIZE C DWG. NO. 1002145 REV. I

F

E

D

C

B

A

F

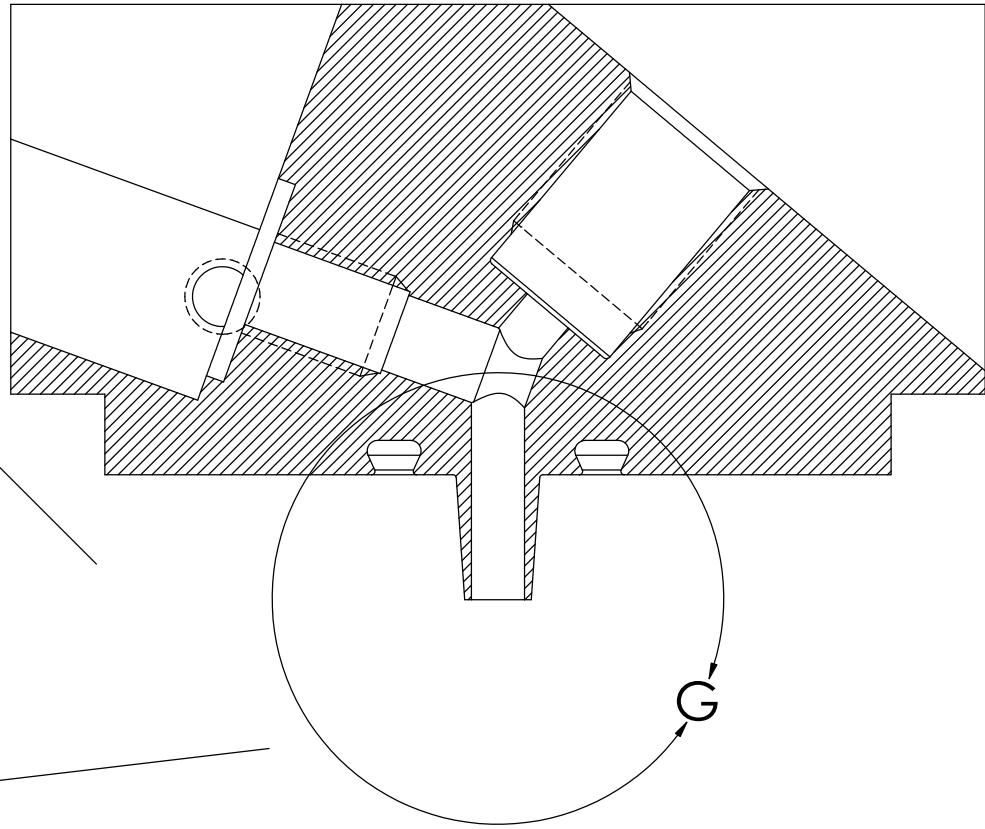
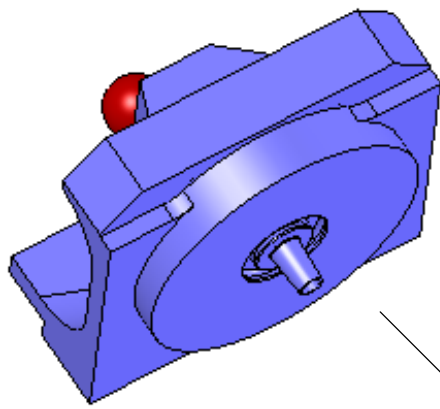
E

D

C

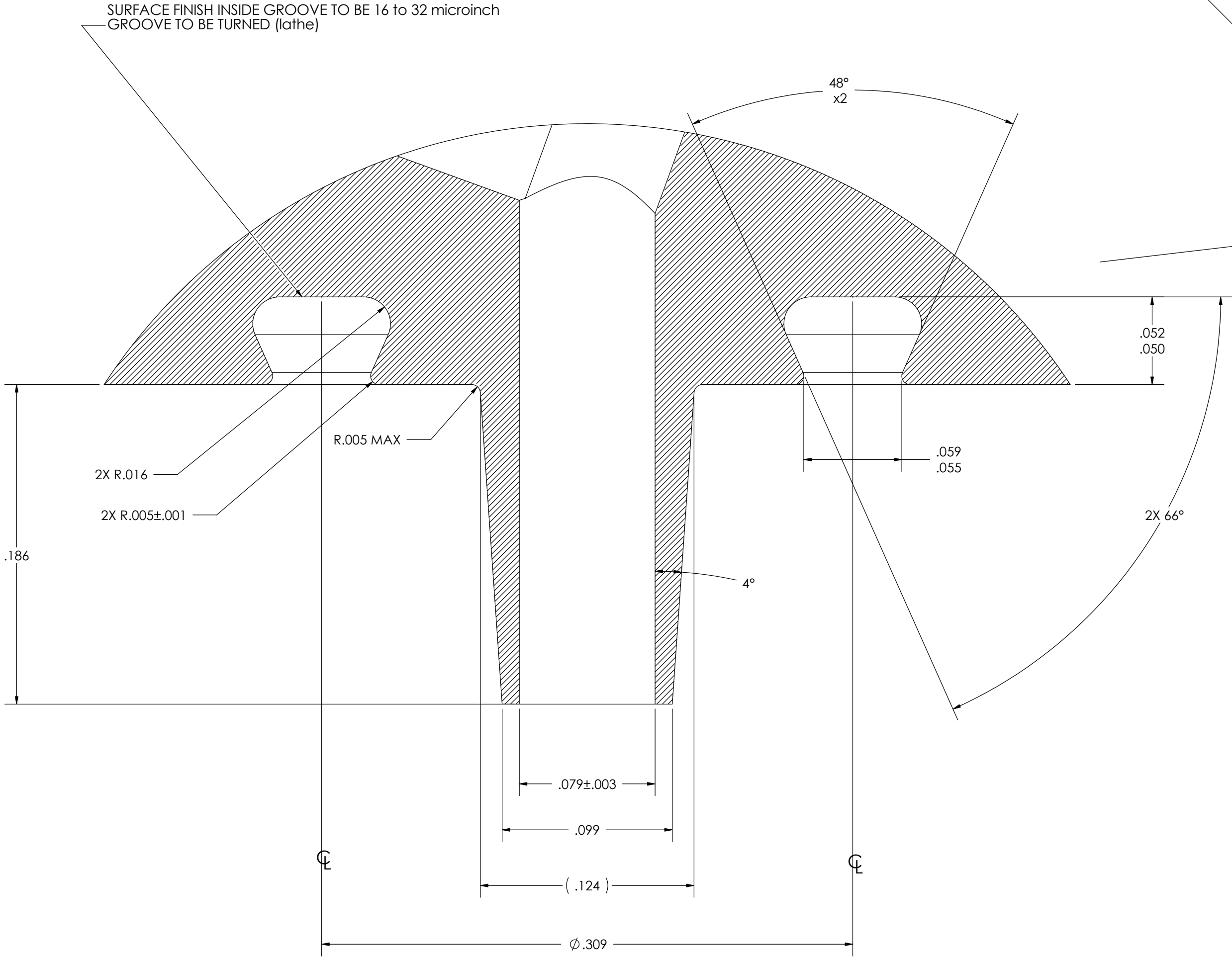
B

A



SECTION G-G
SCALE 3.5 : 1

O-RING:
material: BUNA-N
durometer 70 Shore A
size: 2-010



DETAIL G
SCALE 18 : 1

BILL OF MATERIALS				last updated on: Thursday, March 30, 2006 2:24:01 PM	
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE	
Inspector		2 PLACE DIM ±.01	3 PLACE DIM ±.005	ENGINEER Jason Feldman 831-775-1837	Monterey Bay Aquarium Research Institute 7700 Sandholdt Road Moss Landing, CA 95039
Shop Foreman		4 PLACE DIM ±.0005	ANGLES ±1°	CHECKED	
Engineer		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING 3. REMOVE BURRS & SHARP EDGES .010 MAX 4. MACHINED FILLET RADII .010 TO .020 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005		PROJECT NUMBER 701312.00	
NEXT ASSY Description	NEXT ASSY Number	6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .001 PER INCH. MAX .010 INCHES FOR SINGLE SURFACE. 7. SURFACE FINISH TO BE 63 MICRON UNLESS OTHERWISE SPECIFIED		PROJECT ESP 2G	SIZE C
DO NOT SCALE DRAWING		DWG. NO. 1002145		REV. I	SHEET 13 OF 13