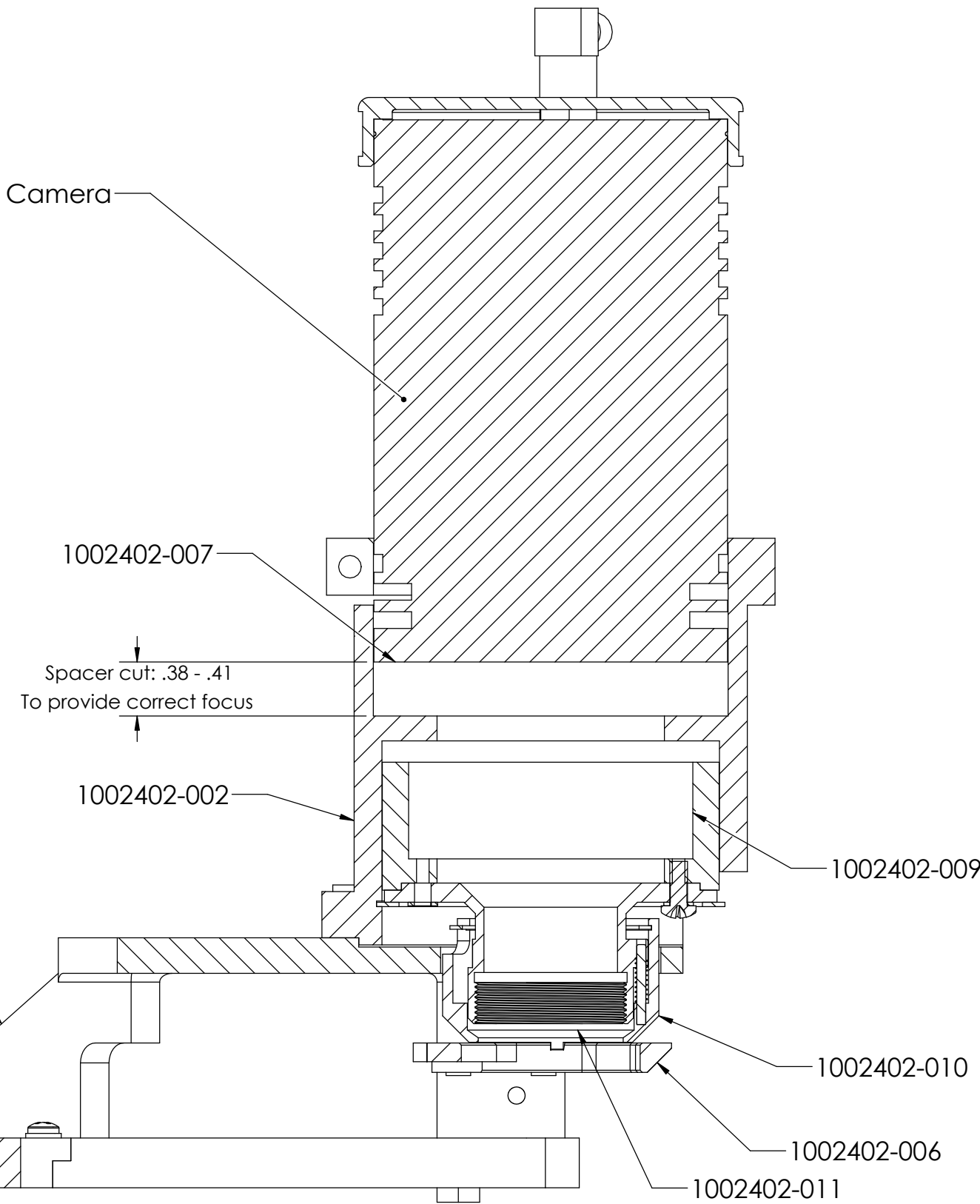
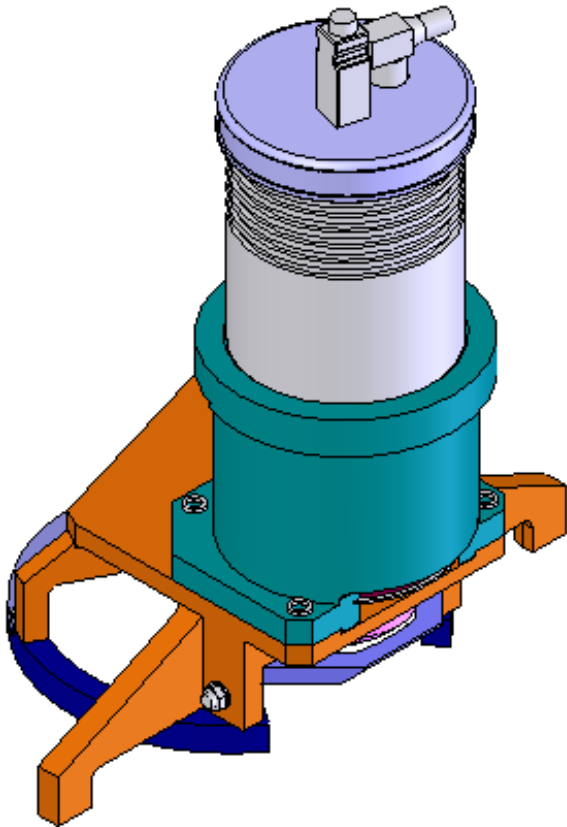
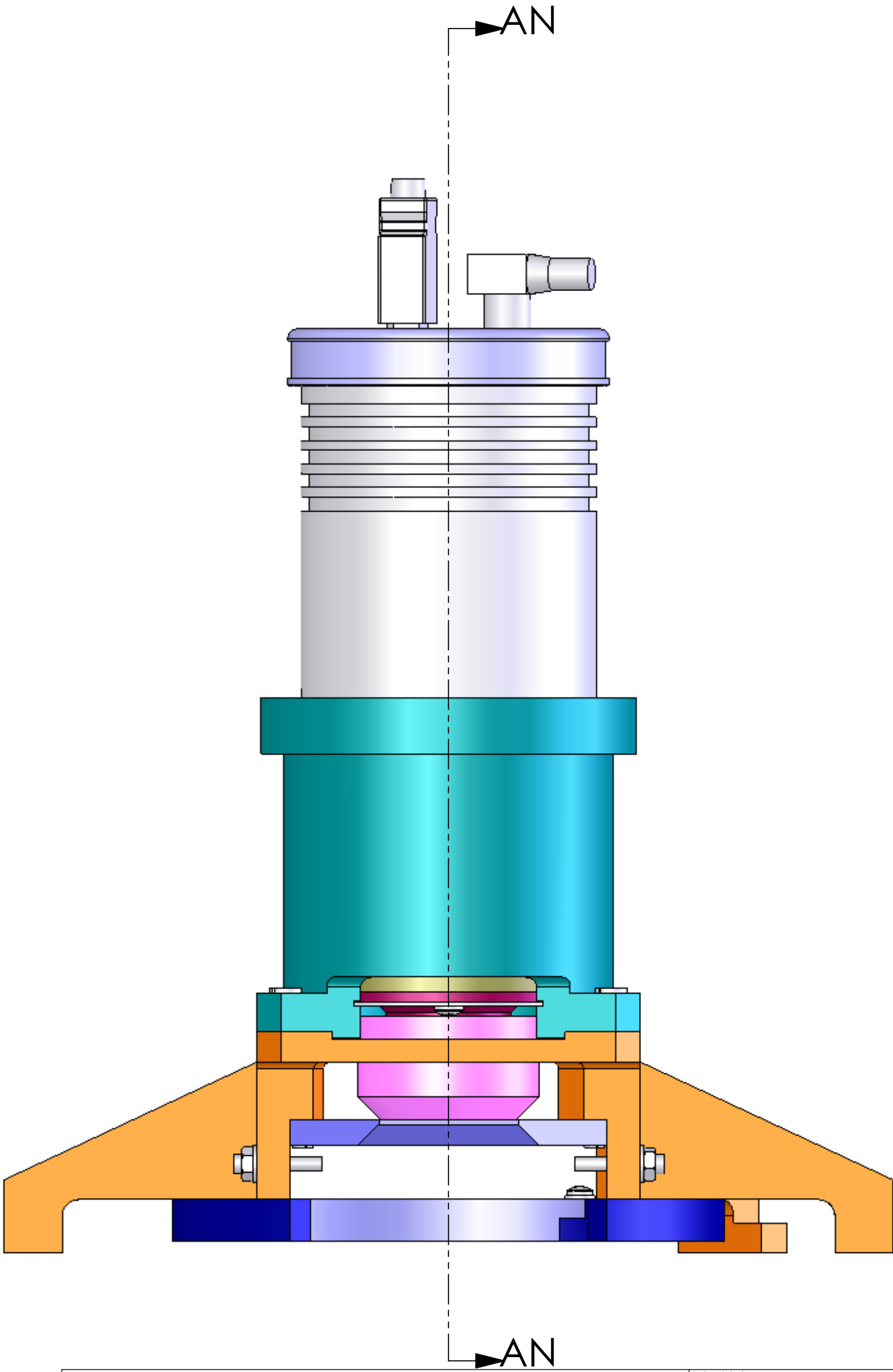


1002402 Camera Mount and Seal

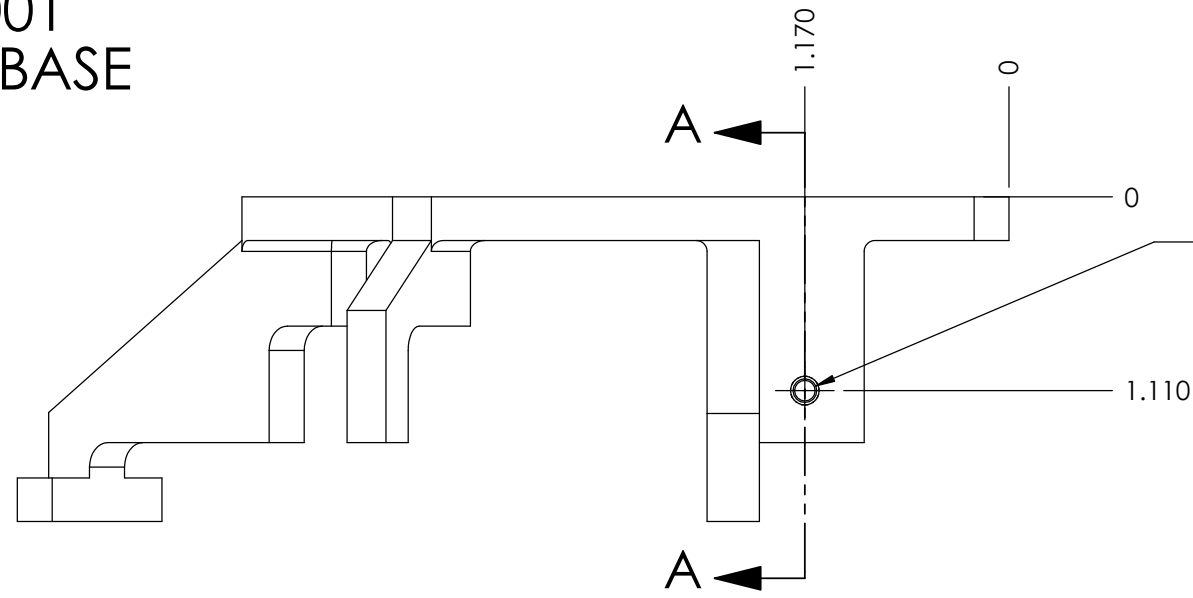


SECTION AN-AN
SCALE 1 : 1



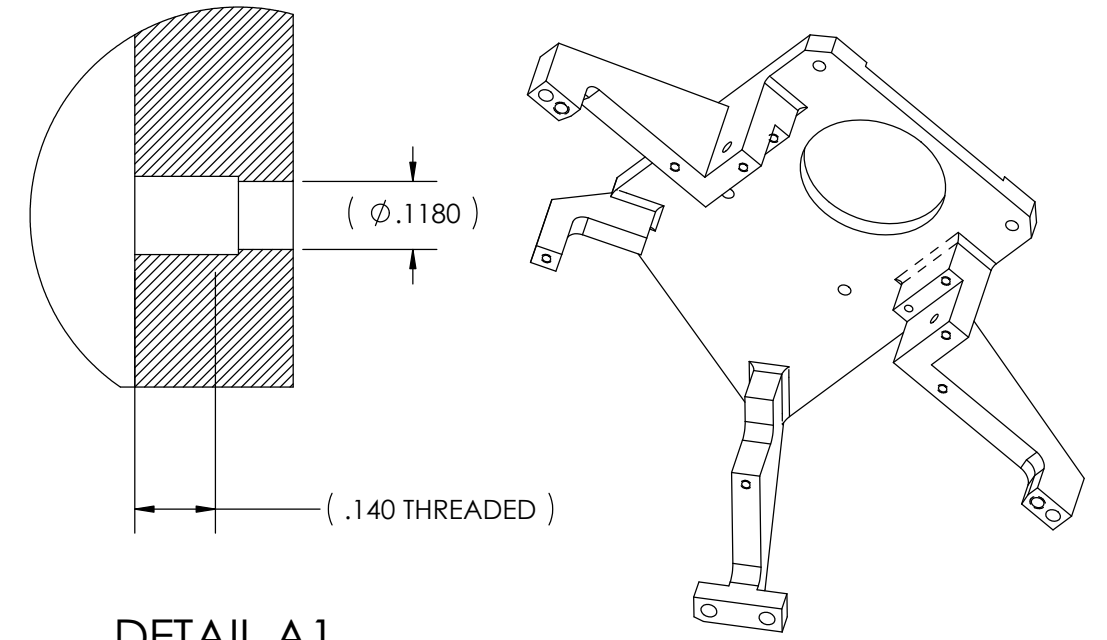
BILL OF MATERIALS						last updated on: Wednesday, March 29, 2006 10:36:17 AM	
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS DATE	
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.01	3 PLACE DIM ±.005	ANGLES ±1°	ENGINEER Jason Feldman 831-775-1837	
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING 3. REMOVE BURRS & SHARP EDGES .010 MAX 4. MACHINED FILLET RADII .010 TO .020				7700 Sandholdt Road Moss Landing, CA 95039	
Engineer		5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005				CHECKED	
NEXT ASSY Description	NEXT ASSY Number	6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .001 PER INCH. MAX .010 INCHES FOR SINGLE SURFACE.				PROJECT NUMBER 701312.00	
		7. SURFACE FINISH TO BE 63 MICRON UNLESS OTHERWISE SPECIFIED				PROJECT ESP 2G	
DO NOT SCALE DRAWING						CAMERA MOUNT & LIGHT SEAL	
						SIZE C	DWG. NO. 1002402
						REV. E	
CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209)						SHEET 1 OF 11	

1002402-001 CAMERA BASE



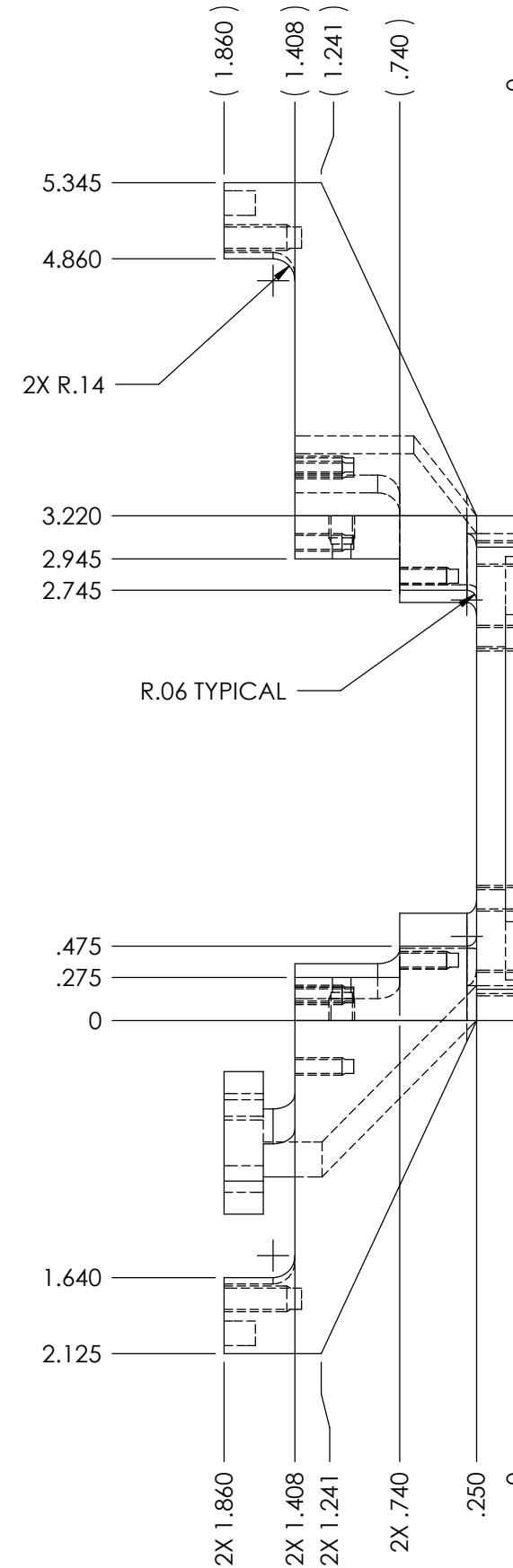
$\phi .136 \nabla .180$
 $8-32 \text{ UNC} - 2B \nabla .140$
 $\phi .1180 \pm .0005 \text{ THRU}$

A1

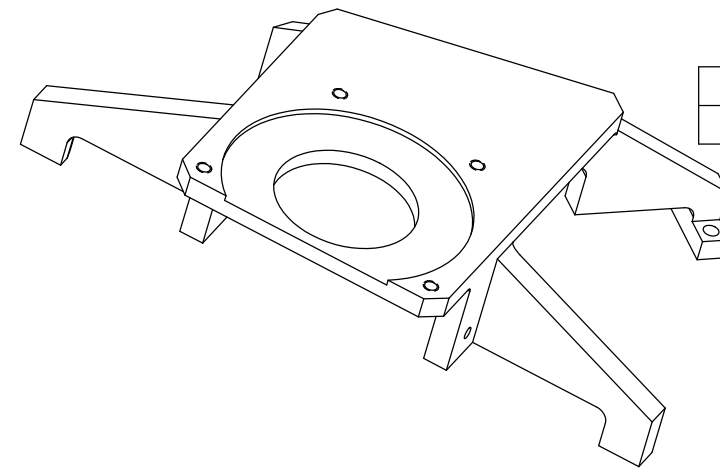
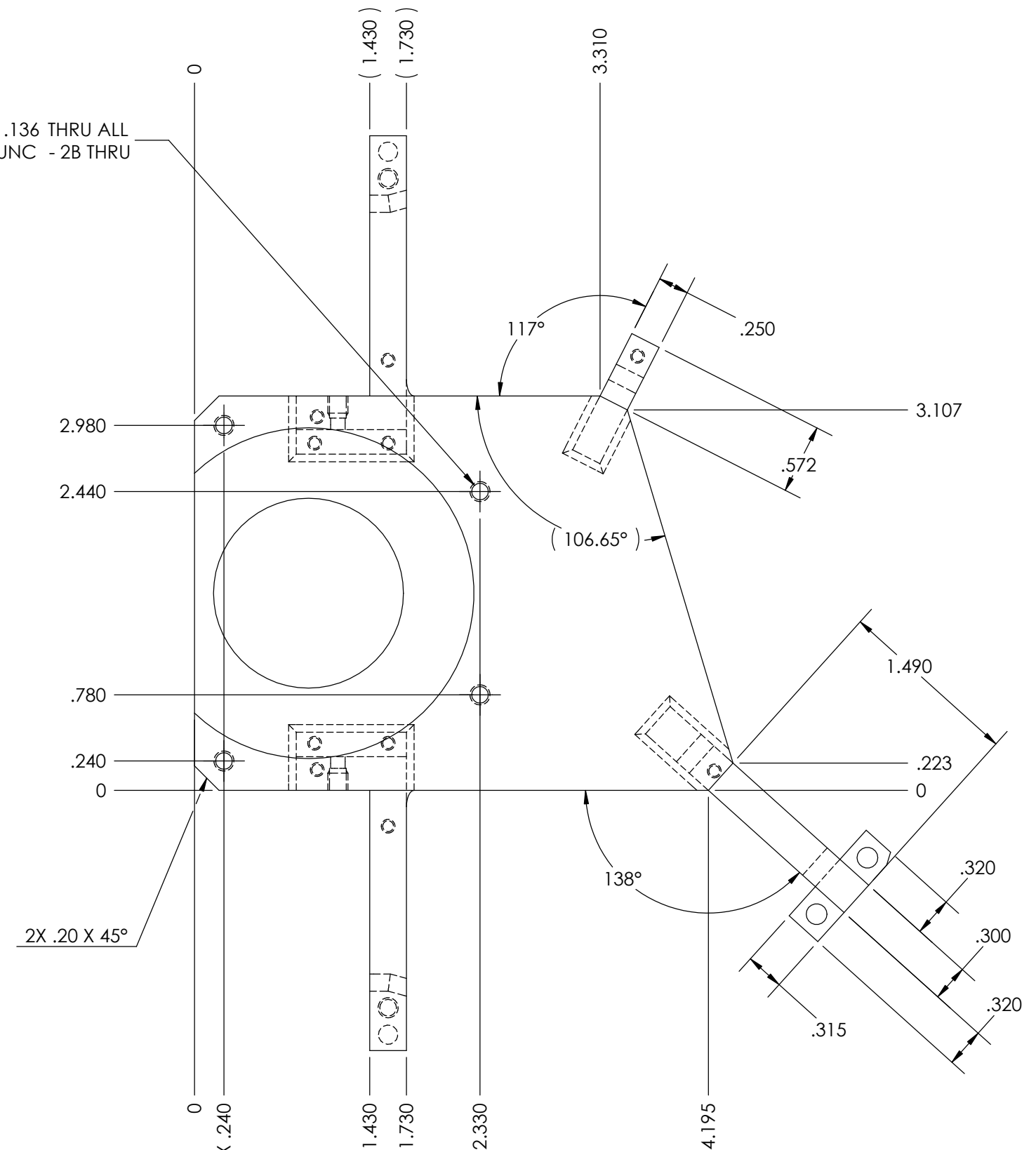


DETAIL A1

SECTION A-A



$4X \phi .136 \text{ THRU ALL}$
 $8-32 \text{ UNC} - 2B \text{ THRU}$



ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
1	1002402-001	camera mount - base	6061-T6 Aluminum	1

Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS		DATE	
Inspector		1 PLACE DIM $\pm 1/16$	2 PLACE DIM $\pm .01$	3 PLACE DIM $\pm .005$	ANGLES $\pm 1^\circ$	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	
Engineer						PROJECT NUMBER 701312.00	
NEXT ASSY Description	NEXT ASSY Number					PROJECT ESP 2G	
DO NOT SCALE DRAWING						CAMERA MOUNT & LIGHT SEAL	
						SIZE C	DWG. NO. 1002402
						REV. E	

last updated on: Wednesday, March 29, 2006 10:36:17 AM

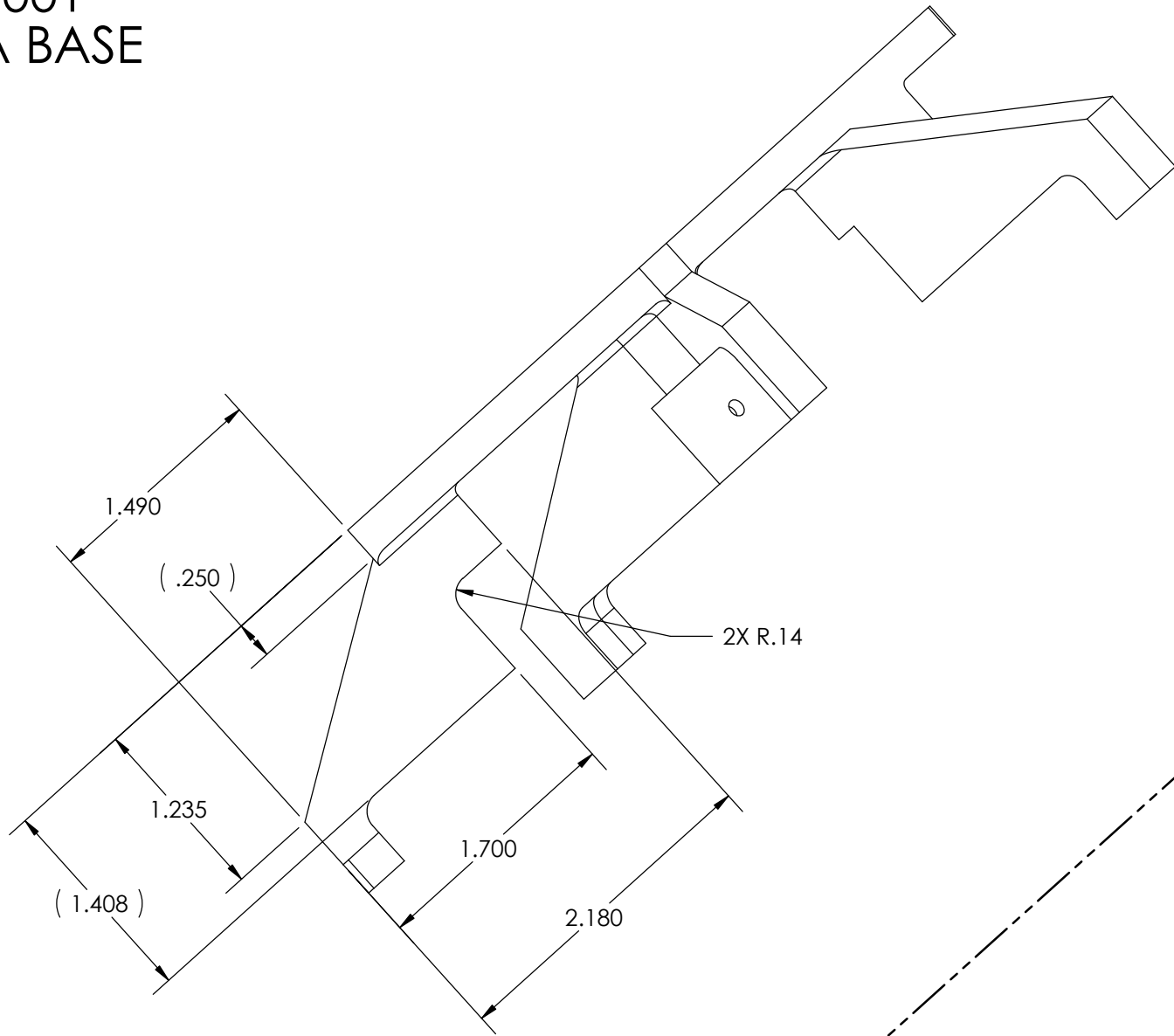
Monterey Bay Aquarium Research Institute
7700 Sandholdt Road
Moss Landing, CA 95039

CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209)

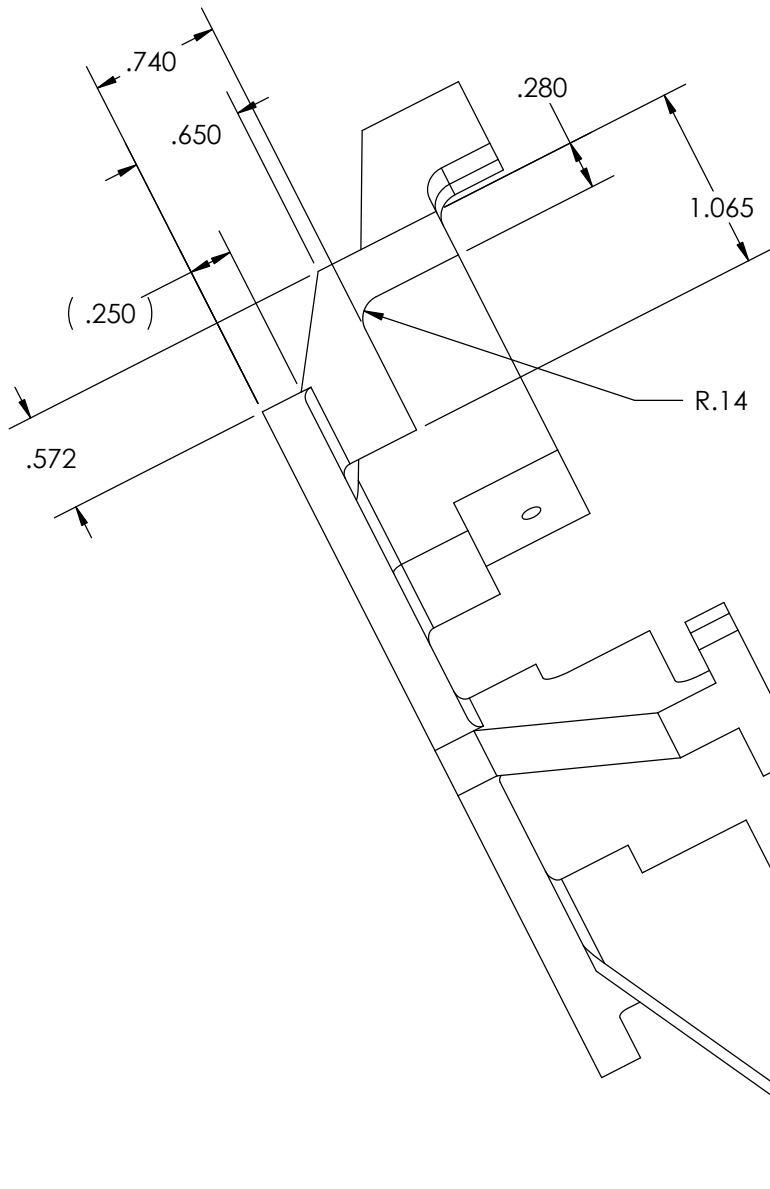
SHEET 2 OF 11

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.

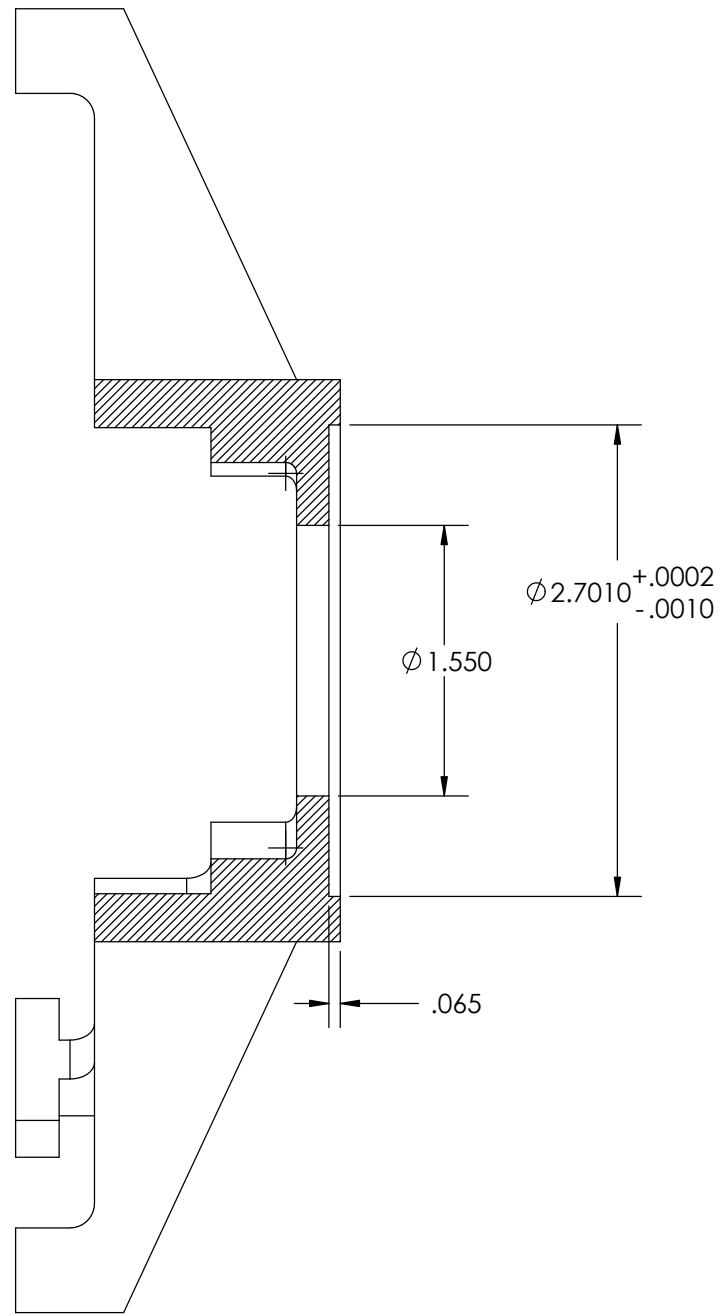
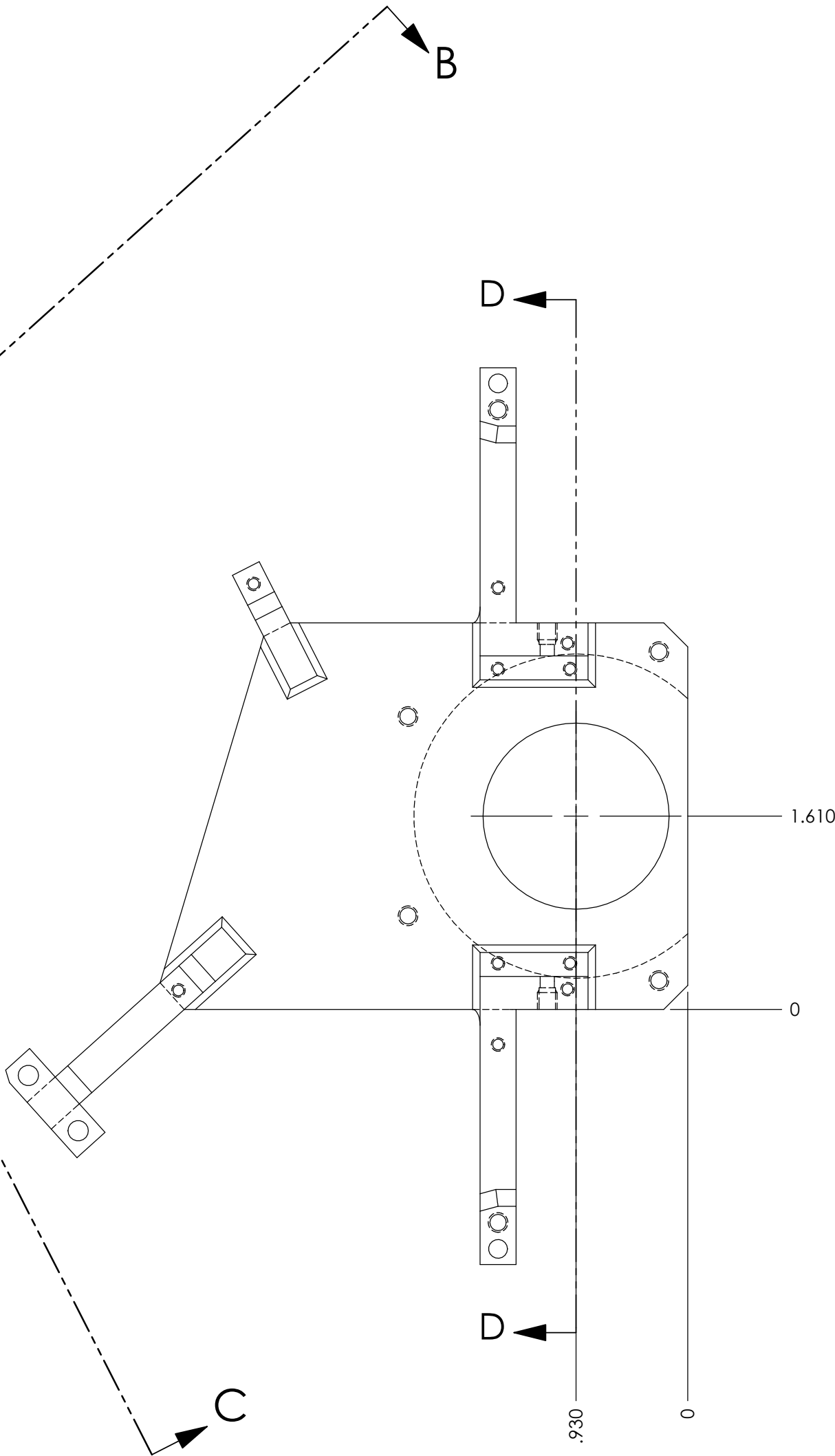
1002402-001
CAMERA BASE



VIEW B-B



VIEW C-C

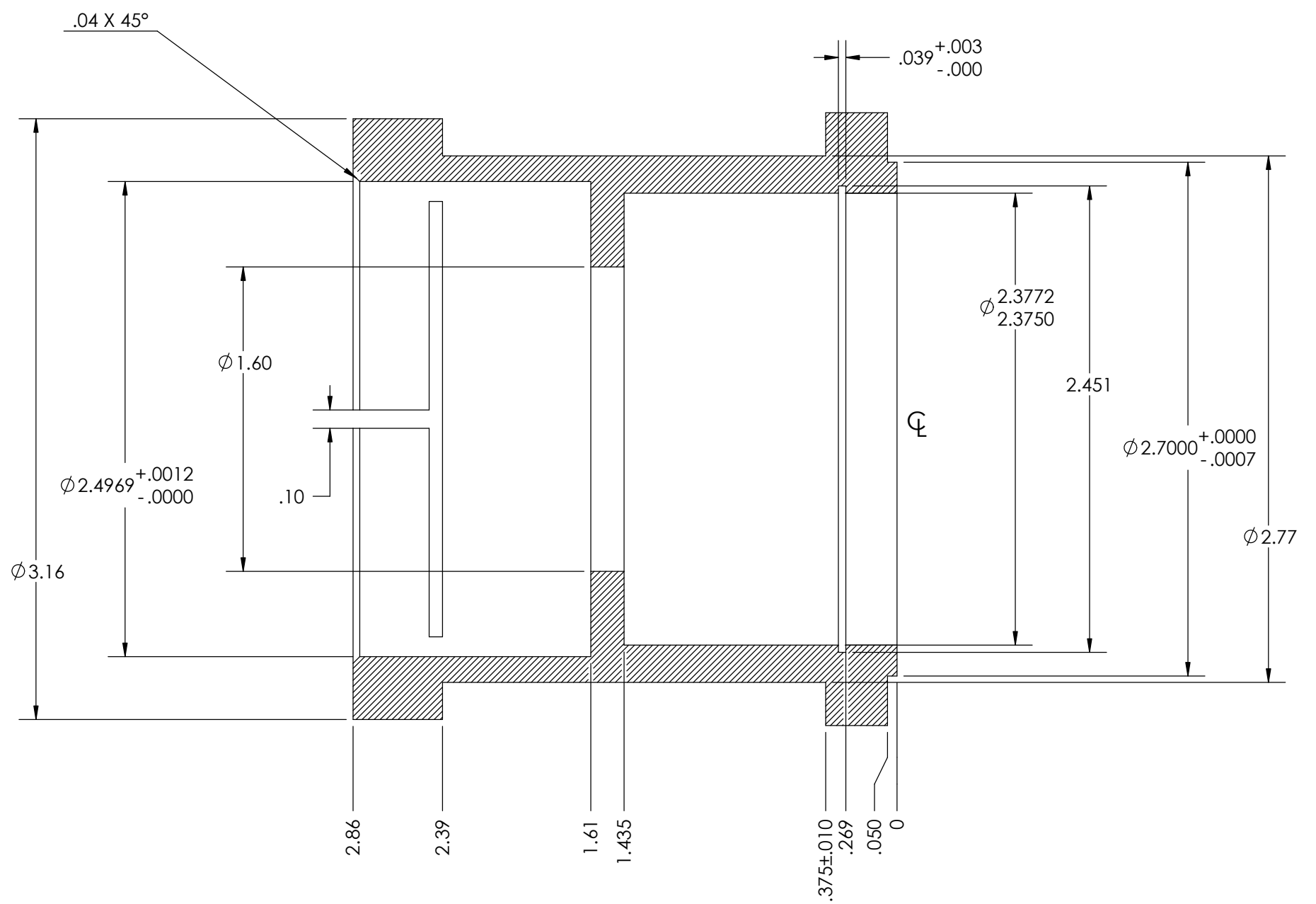
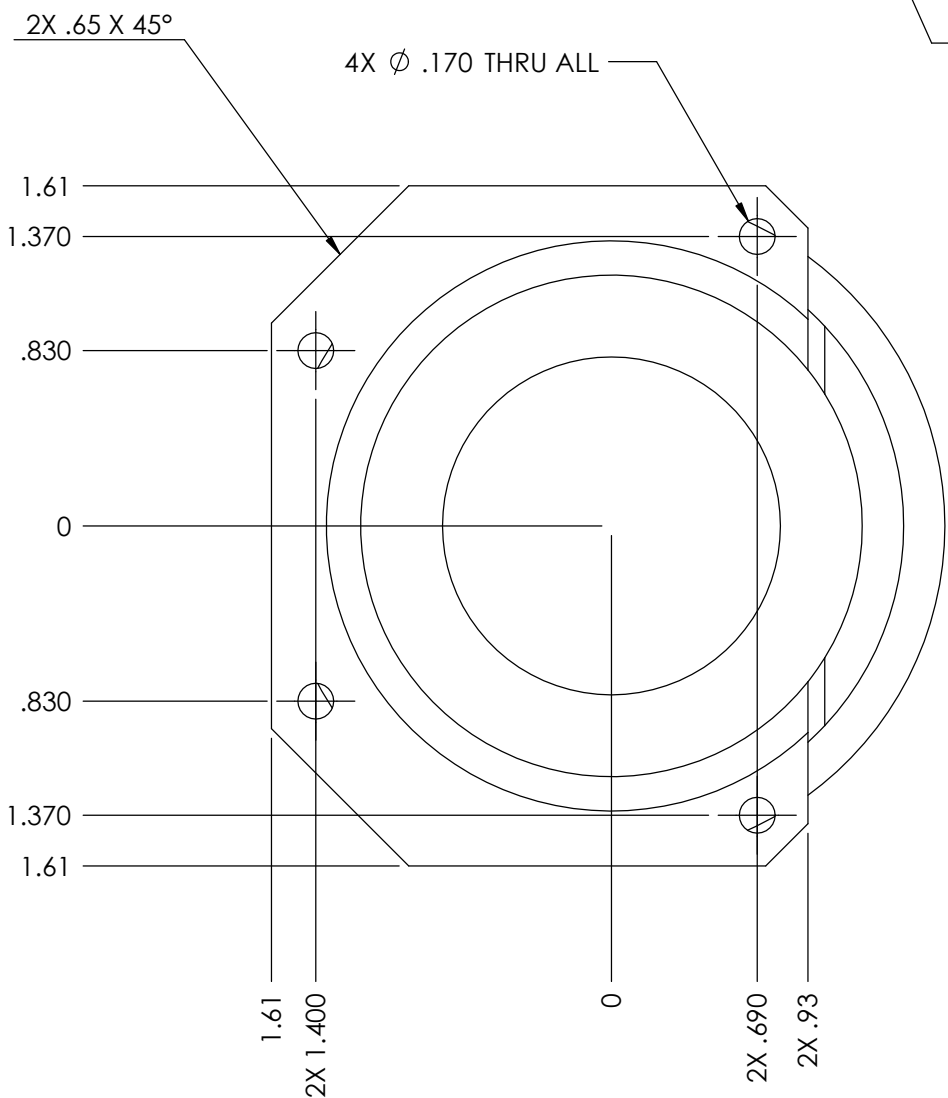
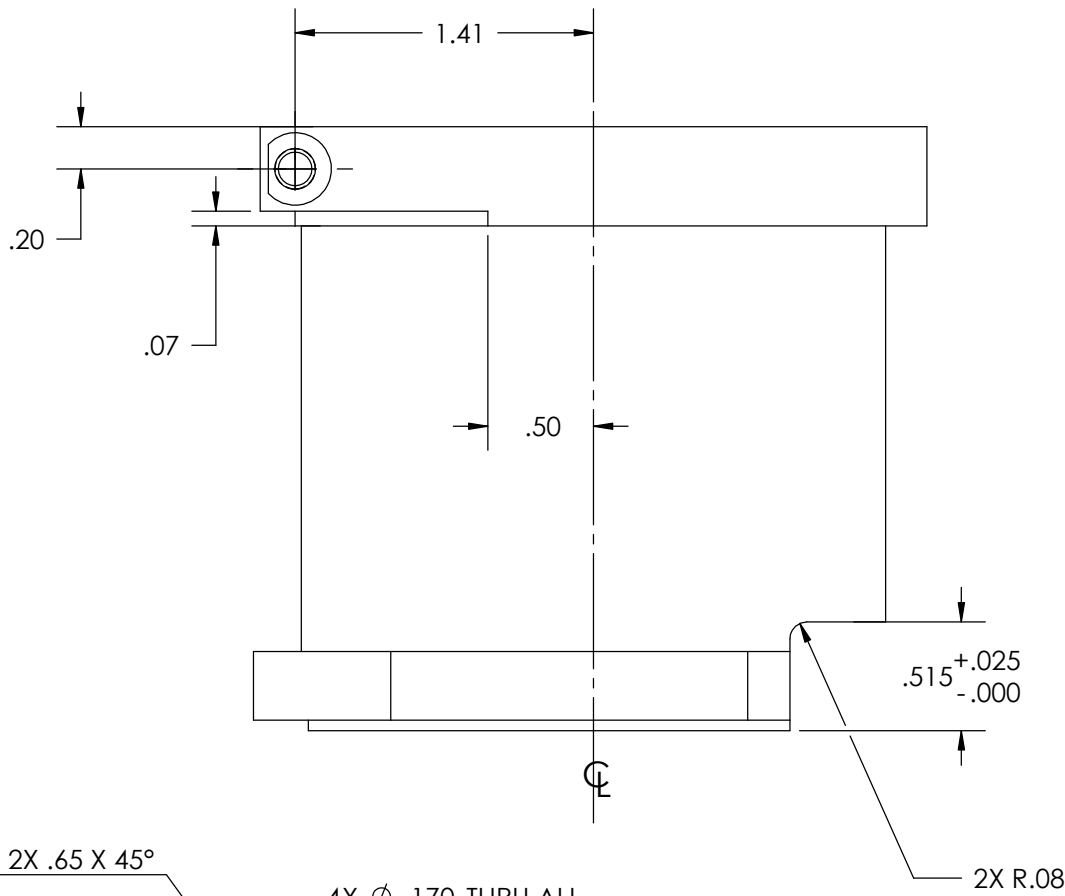
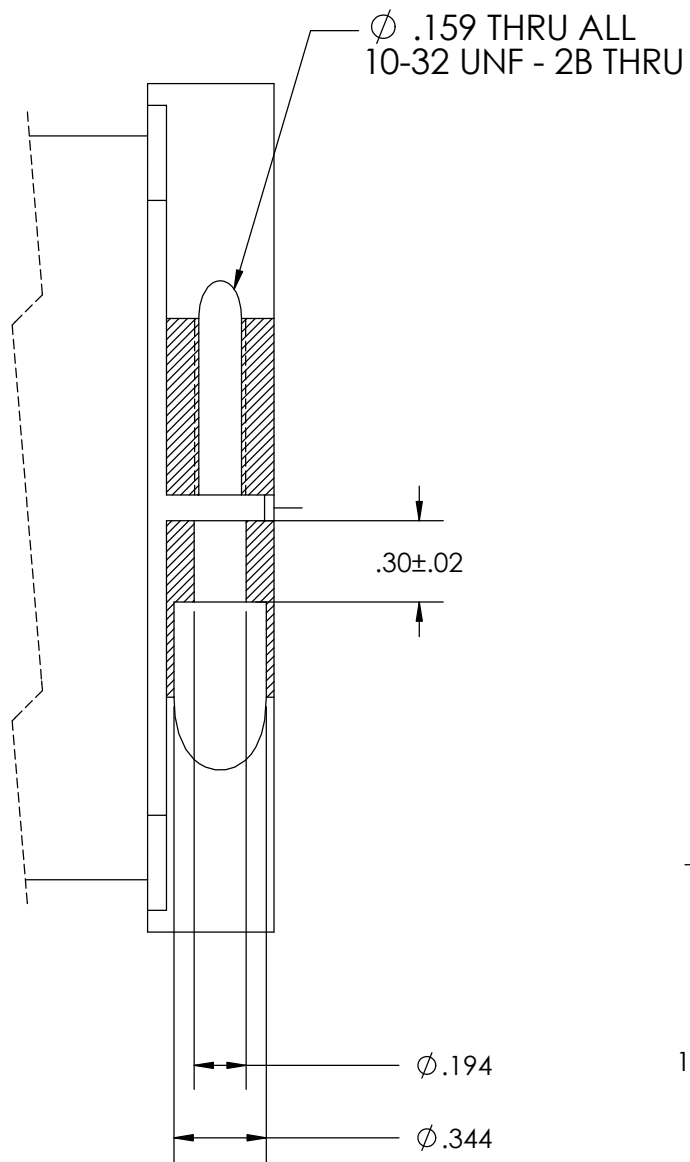
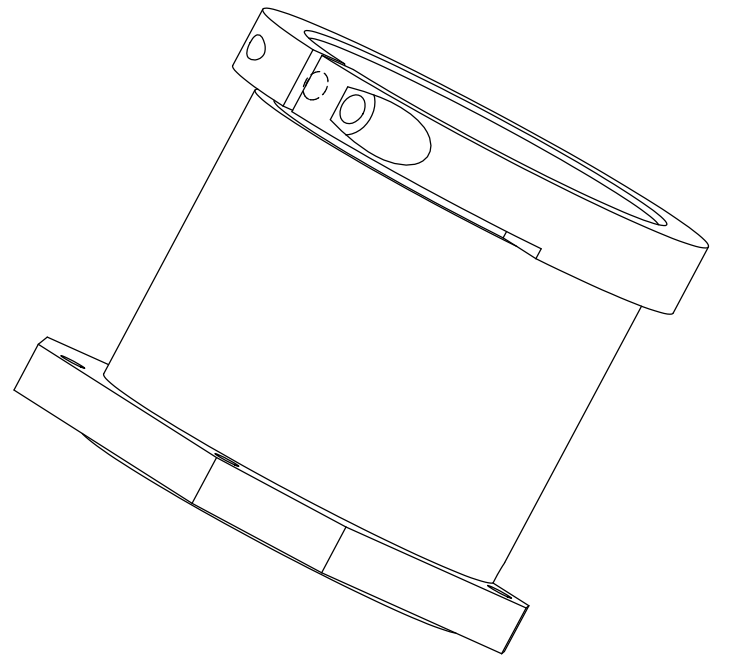
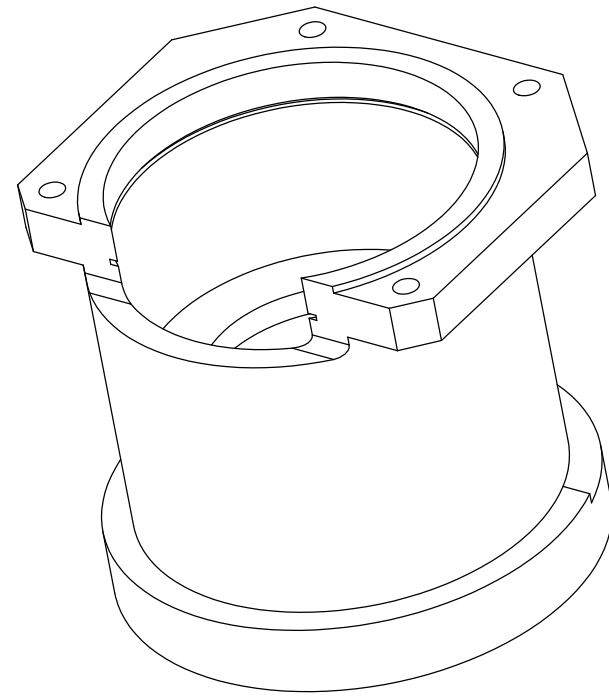
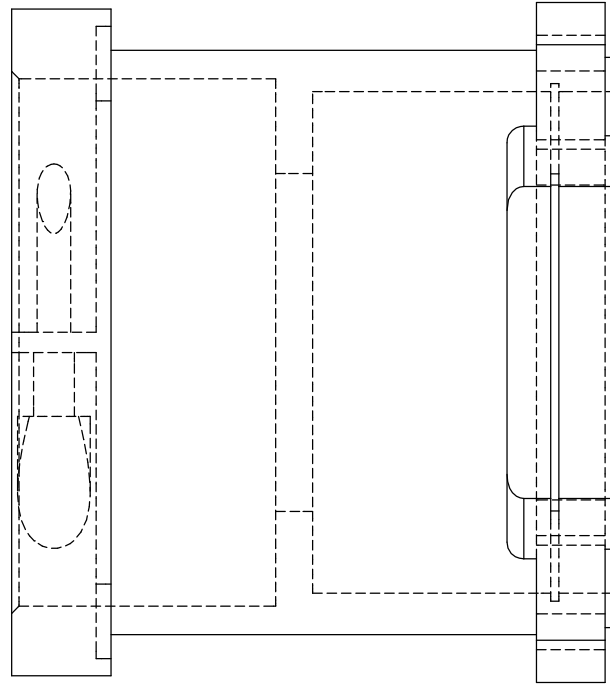
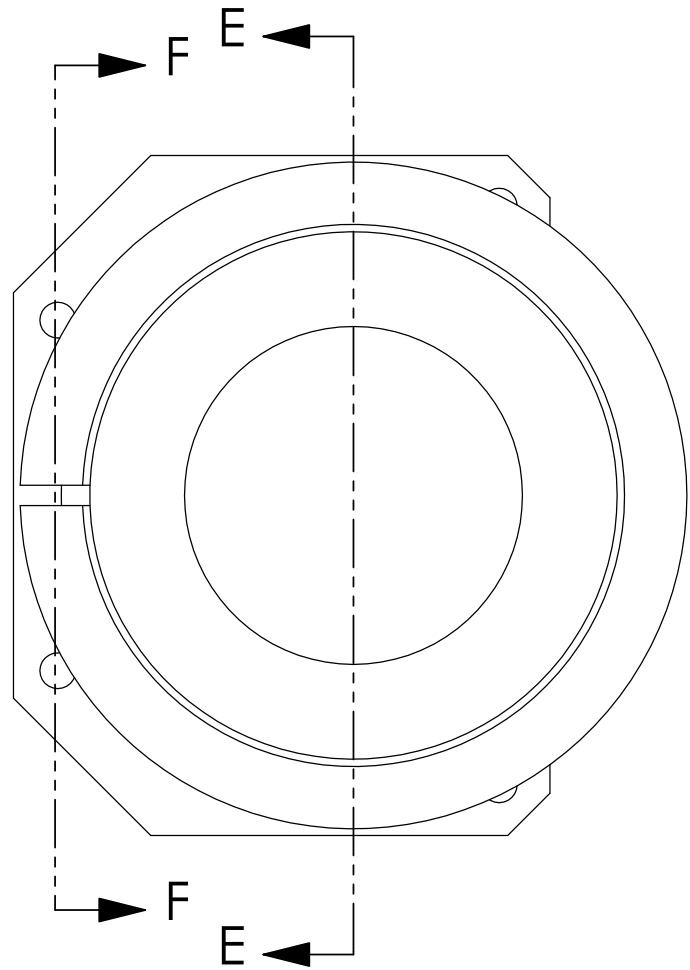
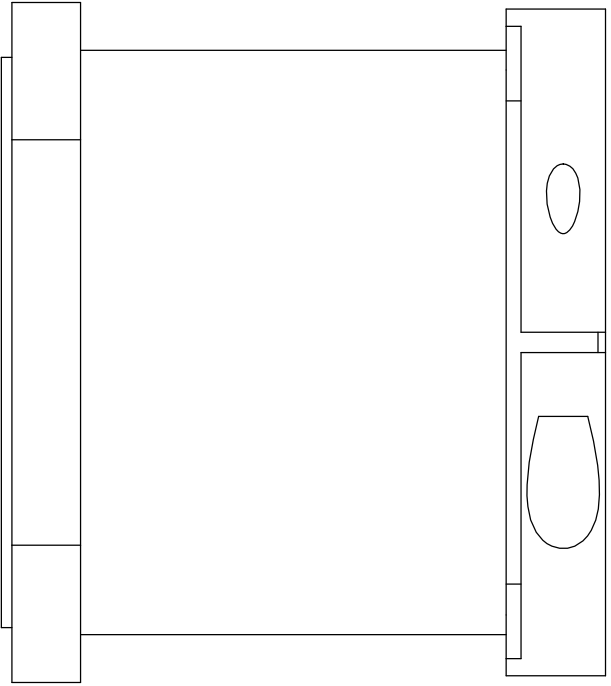


SECTION D-D

BILL OF MATERIALS				last updated on: Wednesday, March 29, 2006 10:36:17 AM	
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE	
Inspector		1 PLACE DIM $\pm 1/16$	2 PLACE DIM $\pm .01$	ENGINEER Jason Feldman 831-775-1837	Monterey Bay Aquarium Research Institute 7700 Sandholdt Road Moss Landing, CA 95039
Shop Foreman		3 PLACE DIM $\pm .005$	ANGLES $\pm 1^\circ$		
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		CHECKED	CAMERA MOUNT & LIGHT SEAL
NEXT ASSY Description	NEXT ASSY Number			PROJECT NUMBER 701312.00	
				PROJECT ESP 2G	SIZE C
				DWG. NO. 1002402	
				REV. E	
DO NOT SCALE DRAWING				CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209)	
				SHEET 3 OF 11	

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

1002402-002
CAMERA CLAMP

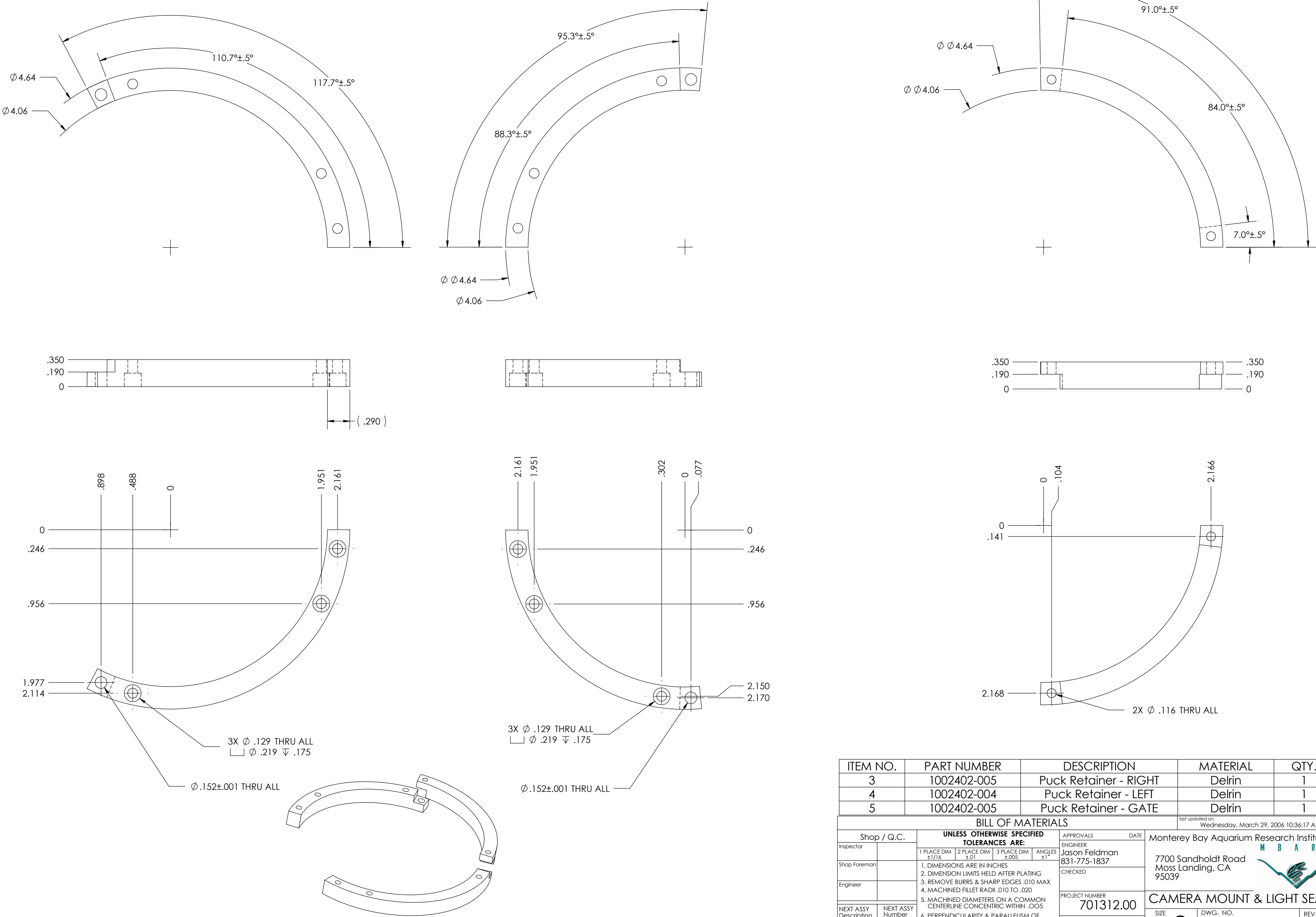


SECTION E-E
SCALE 1.4 : 1

ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.		
1	1002402-002	camera mount - clamp	7075-T6 Aluminum	1		
BILL OF MATERIALS			last updated on: Wednesday, March 29, 2006 10:36:17 AM			
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE: 1 PLACE DIM ±1/16 2 PLACE DIM ±.01 3 PLACE DIM ±.005 ANGLES ±1° 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		Monterey Bay Aquarium Research Institute M B A R I 7700 Sandholdt Road Mass Landing, CA 95039 	
Inspector			ENGINEER Jason Feldman 831-775-1837	CHECKED		
Shop Foreman			PROJECT NUMBER 701312.00	CAMERA MOUNT & LIGHT SEAL		
Engineer			PROJECT ESP 2G	SIZE C		DWG. NO. 1002402
NEXT ASSY Description	NEXT ASSY Number			REV. E		
DO NOT SCALE DRAWING		CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209) SHEET 4 OF 11				

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

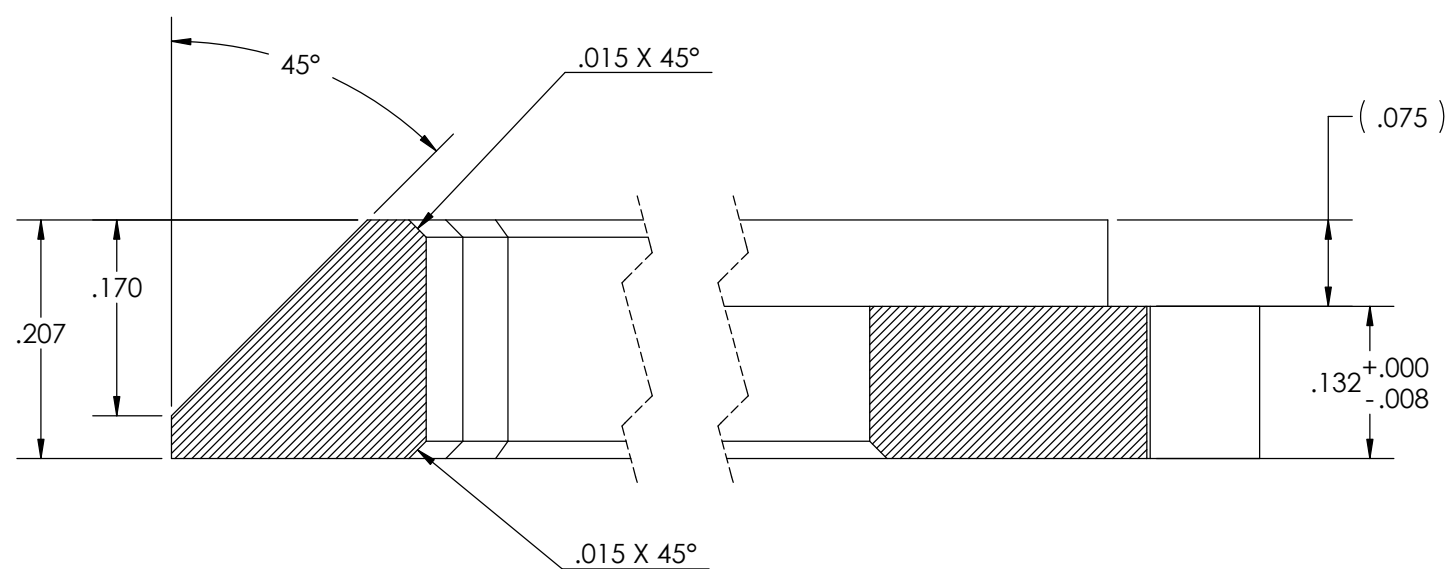
1002402-003, -004, -005
PUCK RETAINER



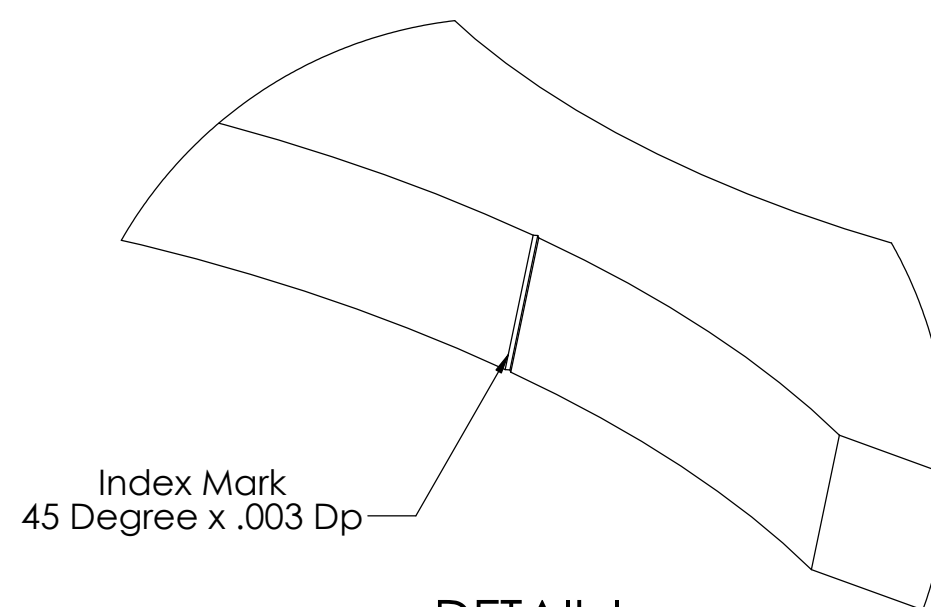
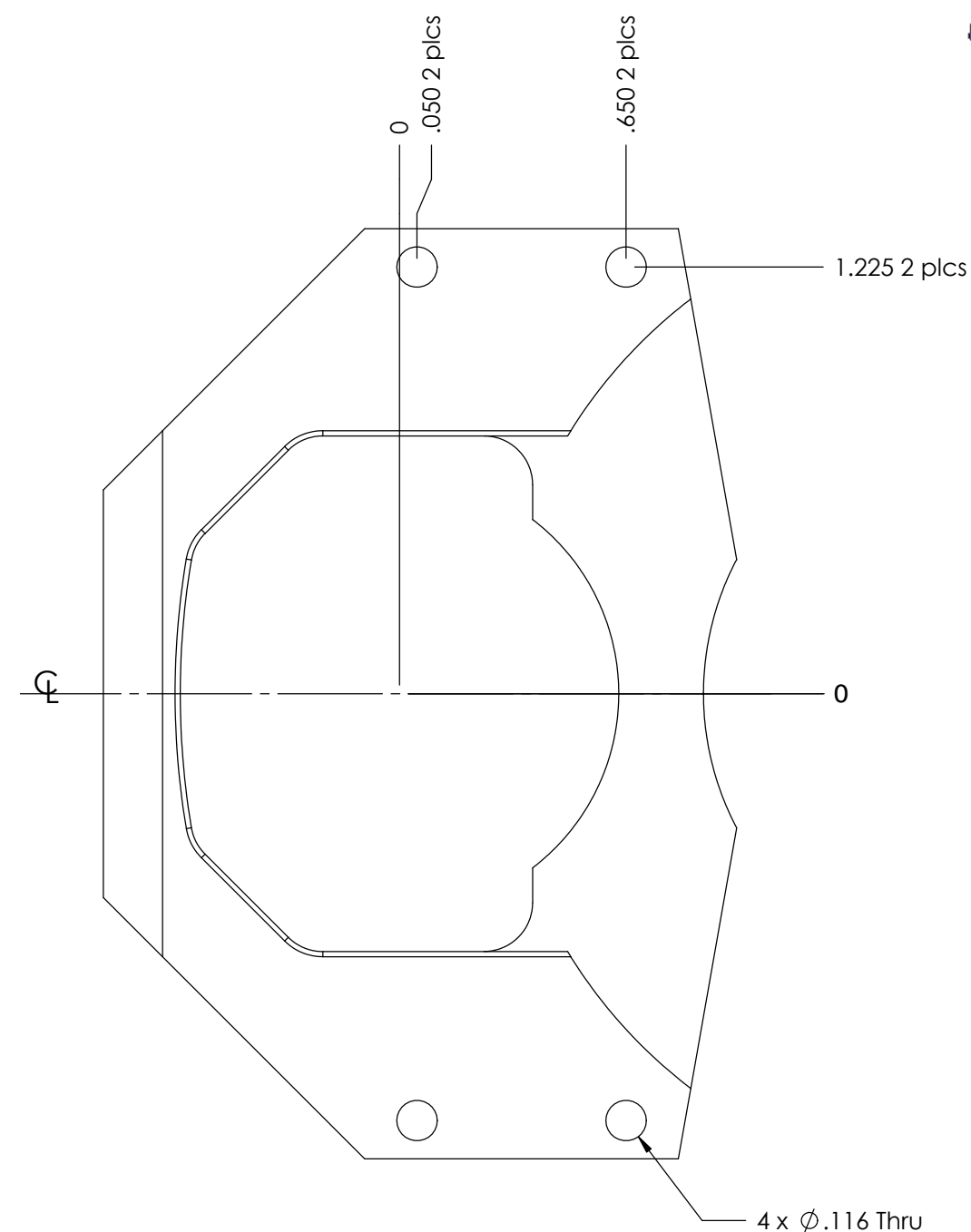
ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
3	1002402-005	Puck Retainer - RIGHT	Delrin	1
4	1002402-004	Puck Retainer - LEFT	Delrin	1
5	1002402-005	Puck Retainer - GATE	Delrin	1

BILL OF MATERIALS				last updated on: Wednesday, March 29, 2006 10:36:17 AM	
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS	DATE
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.01	ENGINEER Jason Feldman 831-775-1837	Monterey Bay Aquarium Research Institute 7700 Sandholdt Road Moss Landing, CA 95039
Shop Foreman		3 PLACE DIM ±.005	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 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	
NEXT ASSY Description	NEXT ASSY Number	PROJECT ESP 2G		PROJECT NUMBER 701312.00	CAMERA MOUNT & LIGHT SEAL
DO NOT SCALE DRAWING		SIZE C		DWG. NO. 1002402	REV. E
CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209) SHEET 5 OF 11					

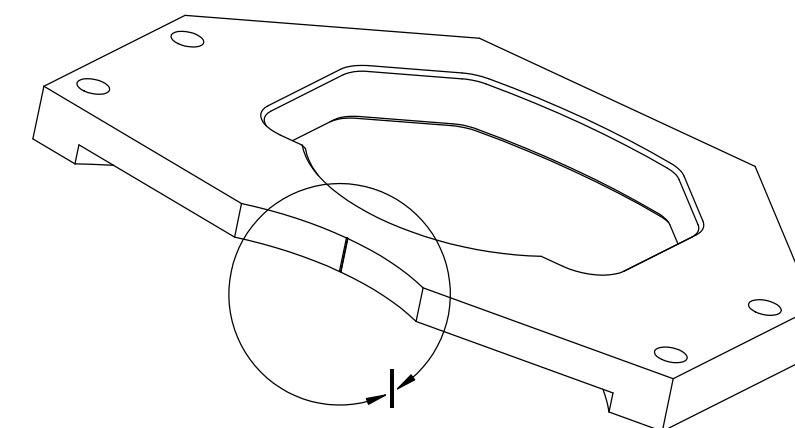
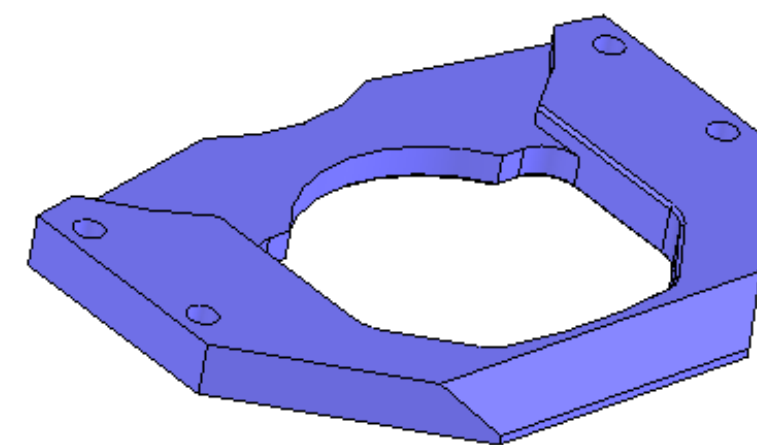
1002402-006
CAMERA - PUCK GUIDE



SECTION G-G
SCALE 6 : 1



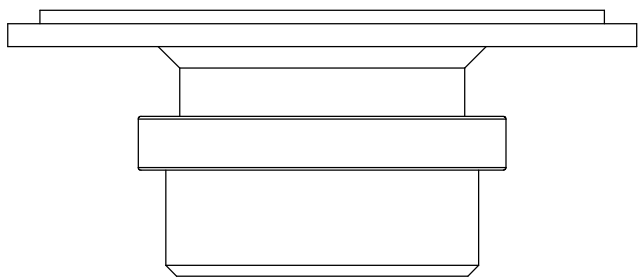
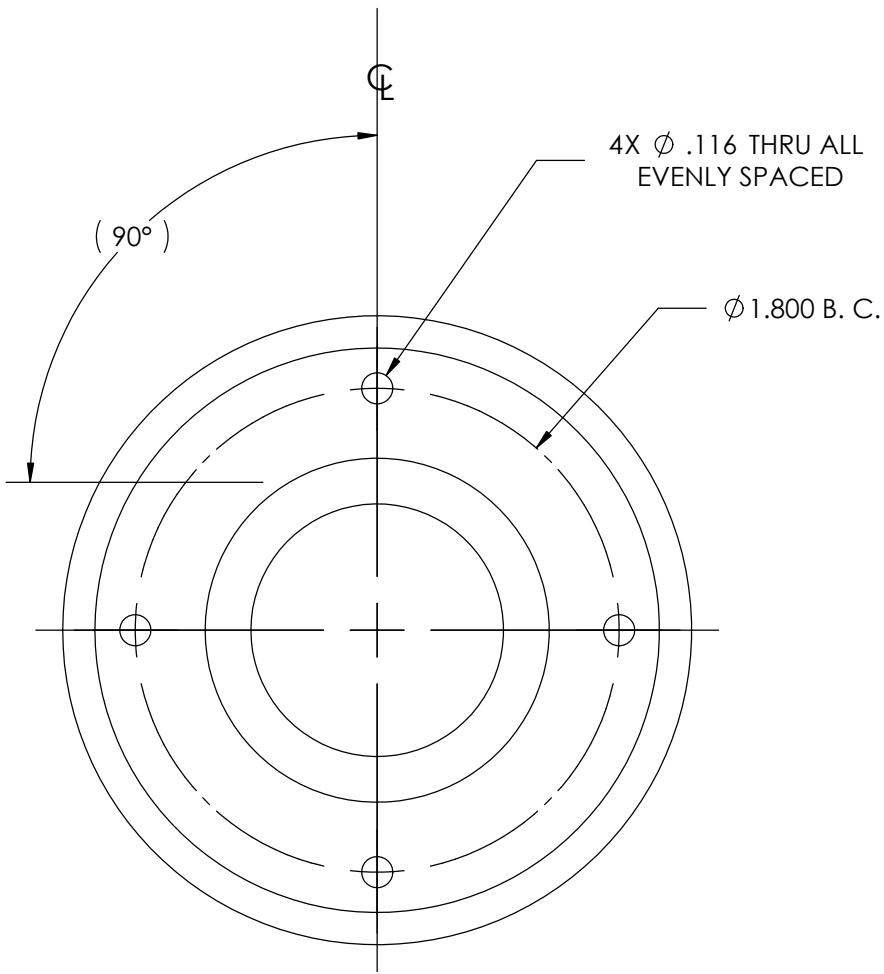
DETAIL I



Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS _____ DATE _____ ENGINEER Jason Feldman 831-775-1837		last updated on: Wednesday, March 29, 2006 10:36:17 AM	
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.01	3 PLACE DIM ±.005	ANGLES ±1°	CHECKED _____		Monterey Bay Aquarium Research Institute 	
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				PROJECT NUMBER 701312.00		7700 Sandholdt Road Moss Landing, CA 95039	
Engineer		5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005				PROJECT ESP 2G		CAMERA MOUNT & LIGHT SEAL	
NEXT ASSY Description	NEXT ASSY Number	6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .001 PER INCH. MAX .010 INCHES FOR SINGLE SURFACE.				SIZE C		DWG. NO. 1002402	
DO NOT SCALE DRAWING		7. SURFACE FINISH TO BE 63 MICRON UNLESS OTHERWISE SPECIFIED				CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209)		REV. E SHEET 6 OF 1	

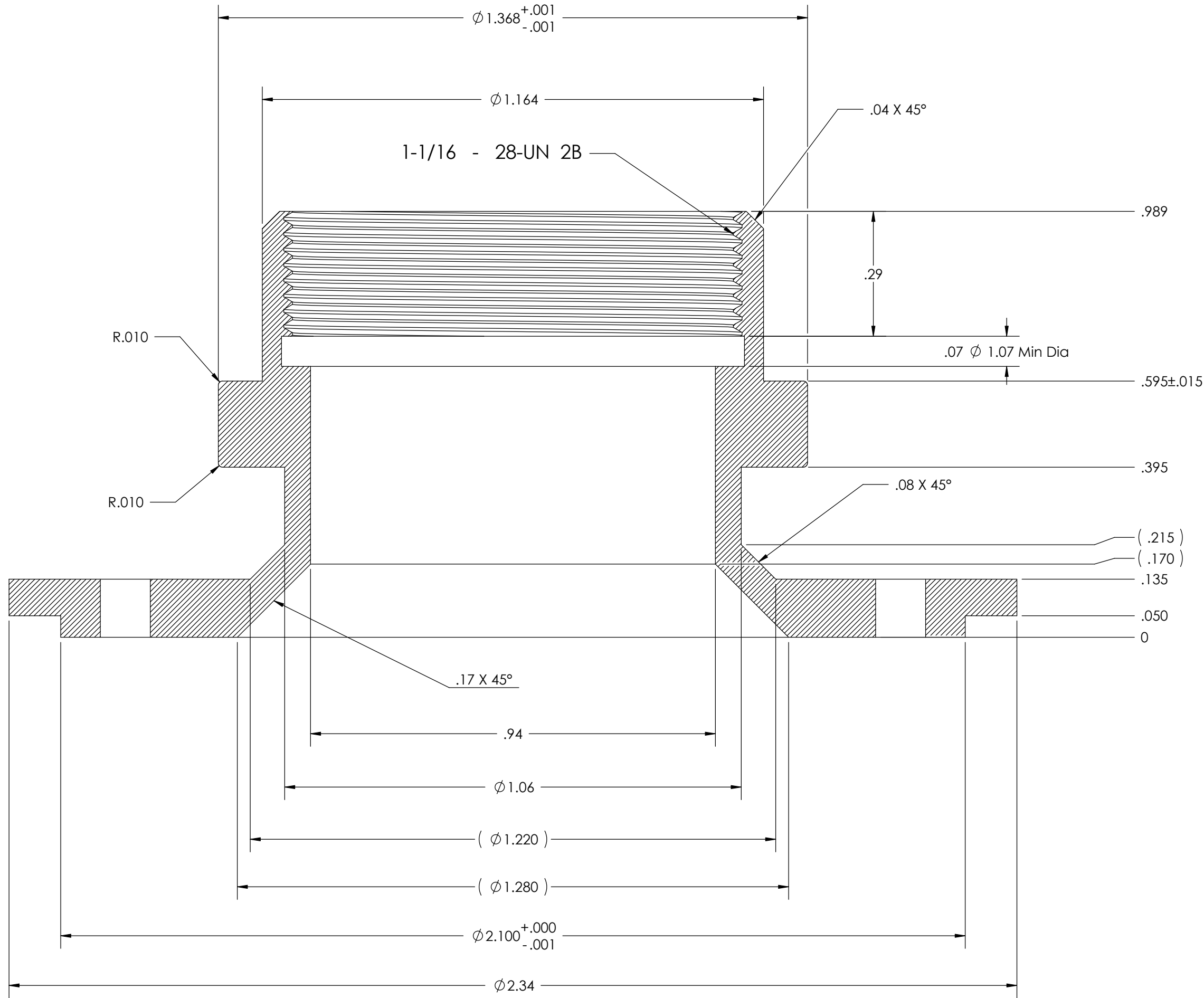
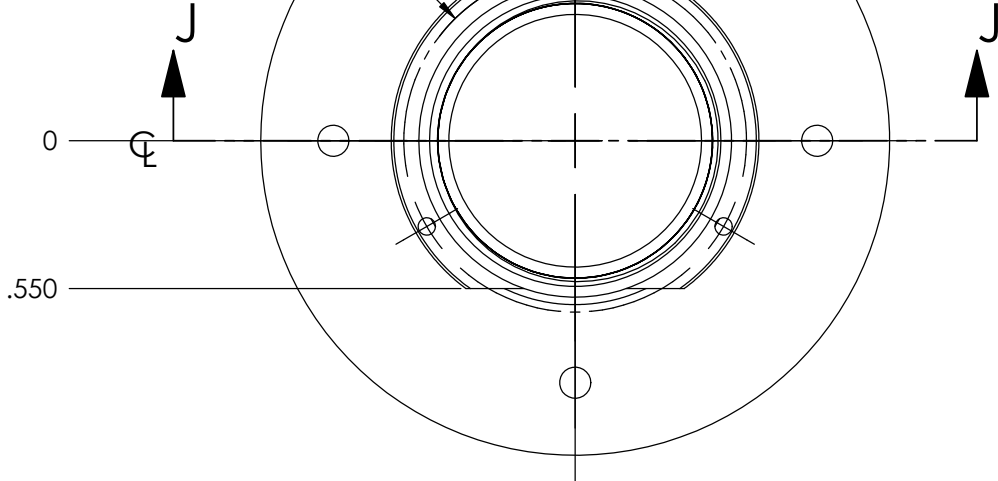
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MBARI ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF MBARI IS PROHIBITED

1002402-008
LIGHT SEAL FLANGE



3X Ø .065±.001 ∇ THRU FLANGE (.20 MIN)
EVENLY SPACED

Ø 1.275 B. C.



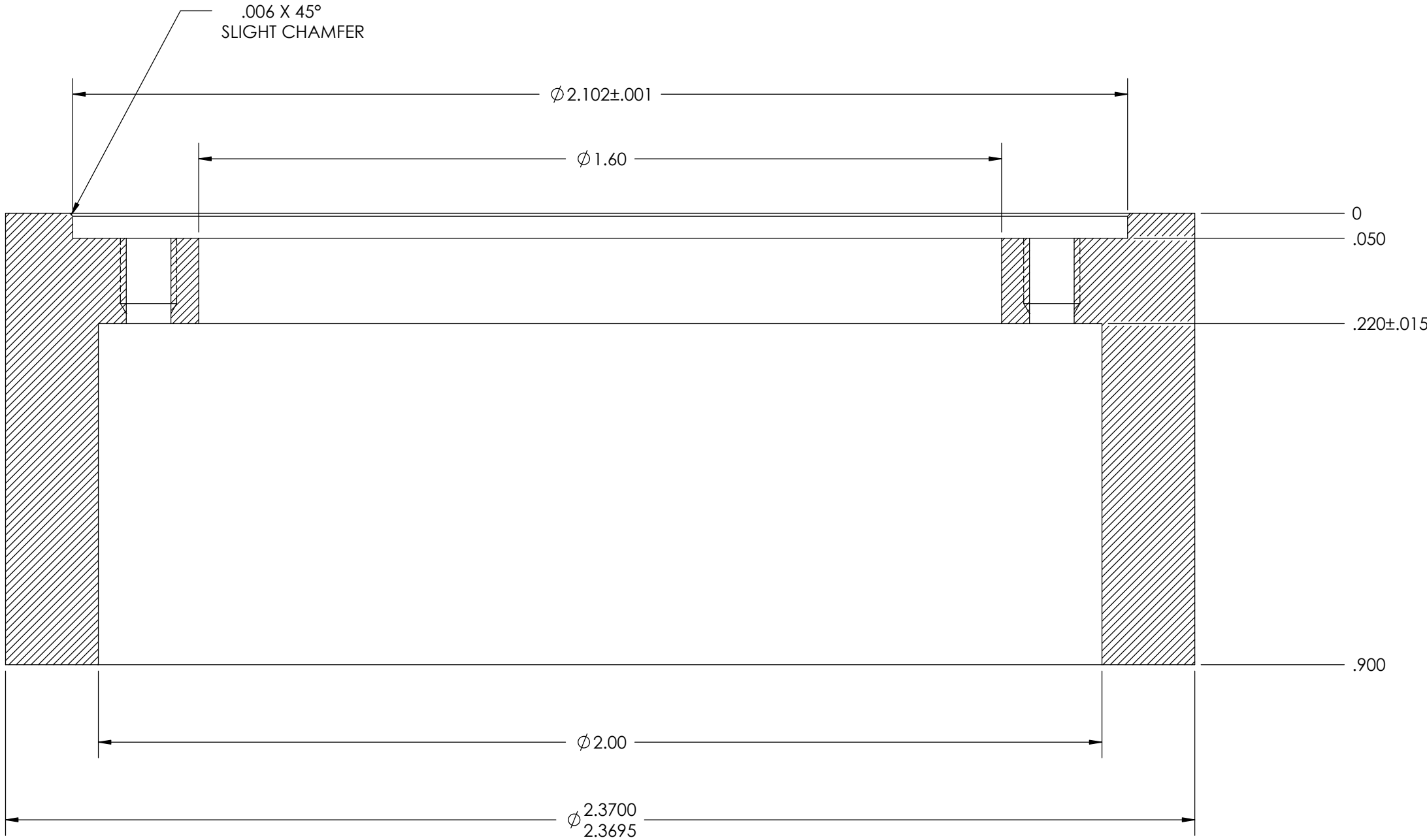
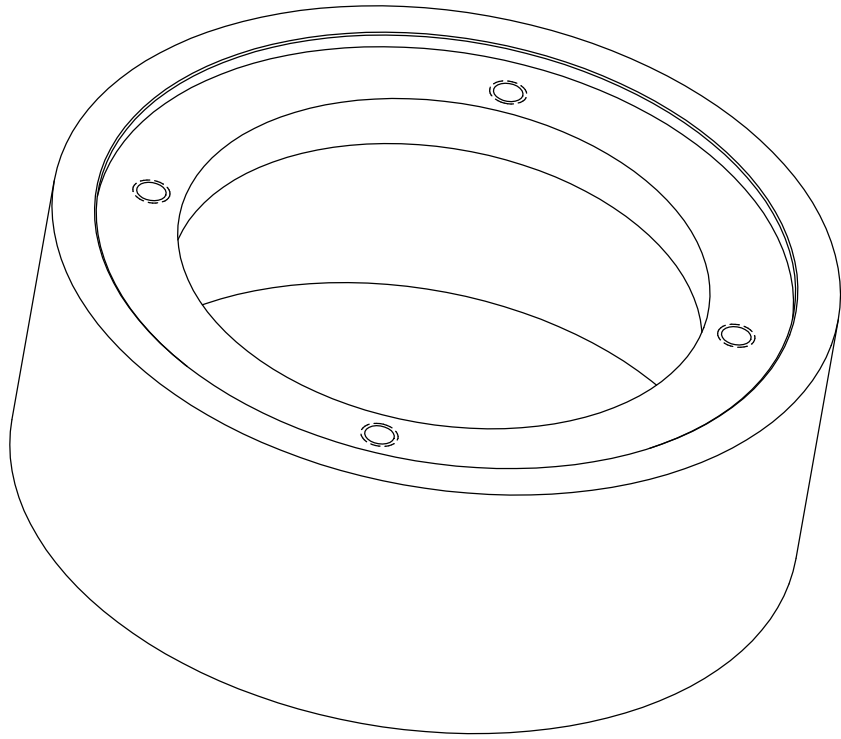
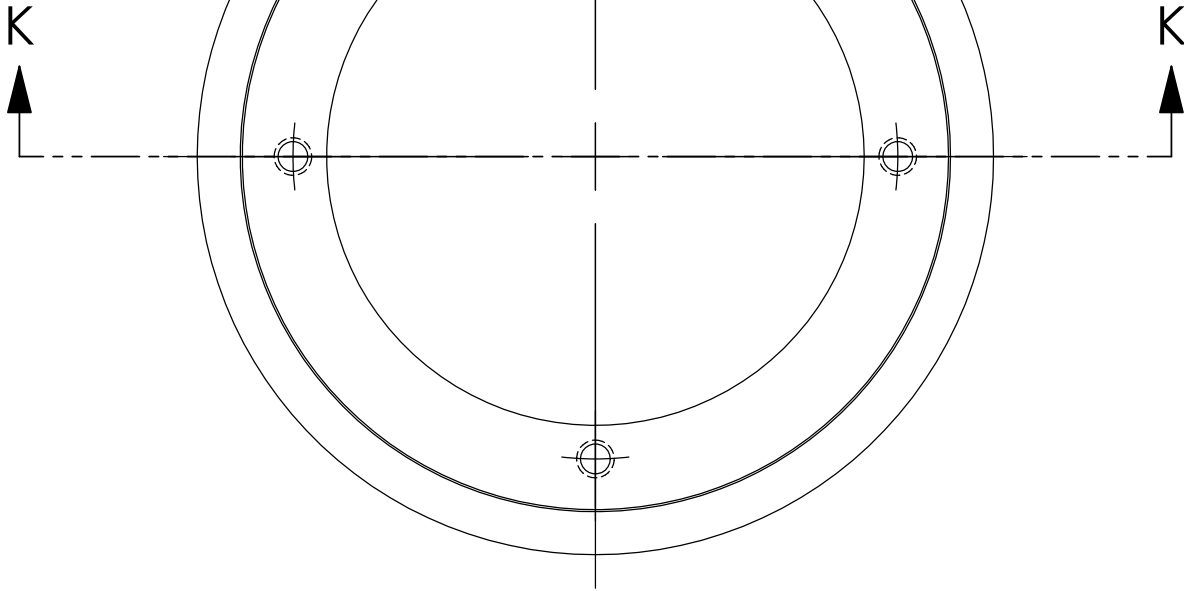
SECTION J-J

ITEM NO.		PART NUMBER		DESCRIPTION		MATERIAL		QTY.	
8		1002402-008		Light Seal Flange		6061-T6 Aluminum		1	
BILL OF MATERIALS									
Shop / Q.C.				UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS		DATE	
						last updated on: Wednesday, March 29, 2006 10:36:17 AM			
Inspector		1 PLACE DIM ±1/16		2 PLACE DIM ±.01		3 PLACE DIM ±.005		ANGLES ±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				ENGINEER Jason Feldman 831-775-1837		Monterey Bay Aquarium Research Institute 7700 Sandholdt Road Moss Landing, CA 95039	
Engineer		5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005				CHECKED			
NEXT ASSY Description		NEXT ASSY Number		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .001 PER INCH. MAX .010 INCHES FOR SINGLE SURFACE.		PROJECT NUMBER 701312.00		CAMERA MOUNT & LIGHT SEAL	
				7. SURFACE FINISH TO BE 63 MICRON UNLESS OTHERWISE SPECIFIED		PROJECT ESP 2G		SIZE DWG. NO. REV.	
						C 1002402		E	
DO NOT SCALE DRAWING				CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209)				SHEET 7 OF 11	

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

1002402-009
LIGHT SEAL SHAFT

4X Ø .089 THRU ALL
4-40 UNC - 2B Thru
evenly spaced
on 1.800 Dia BC

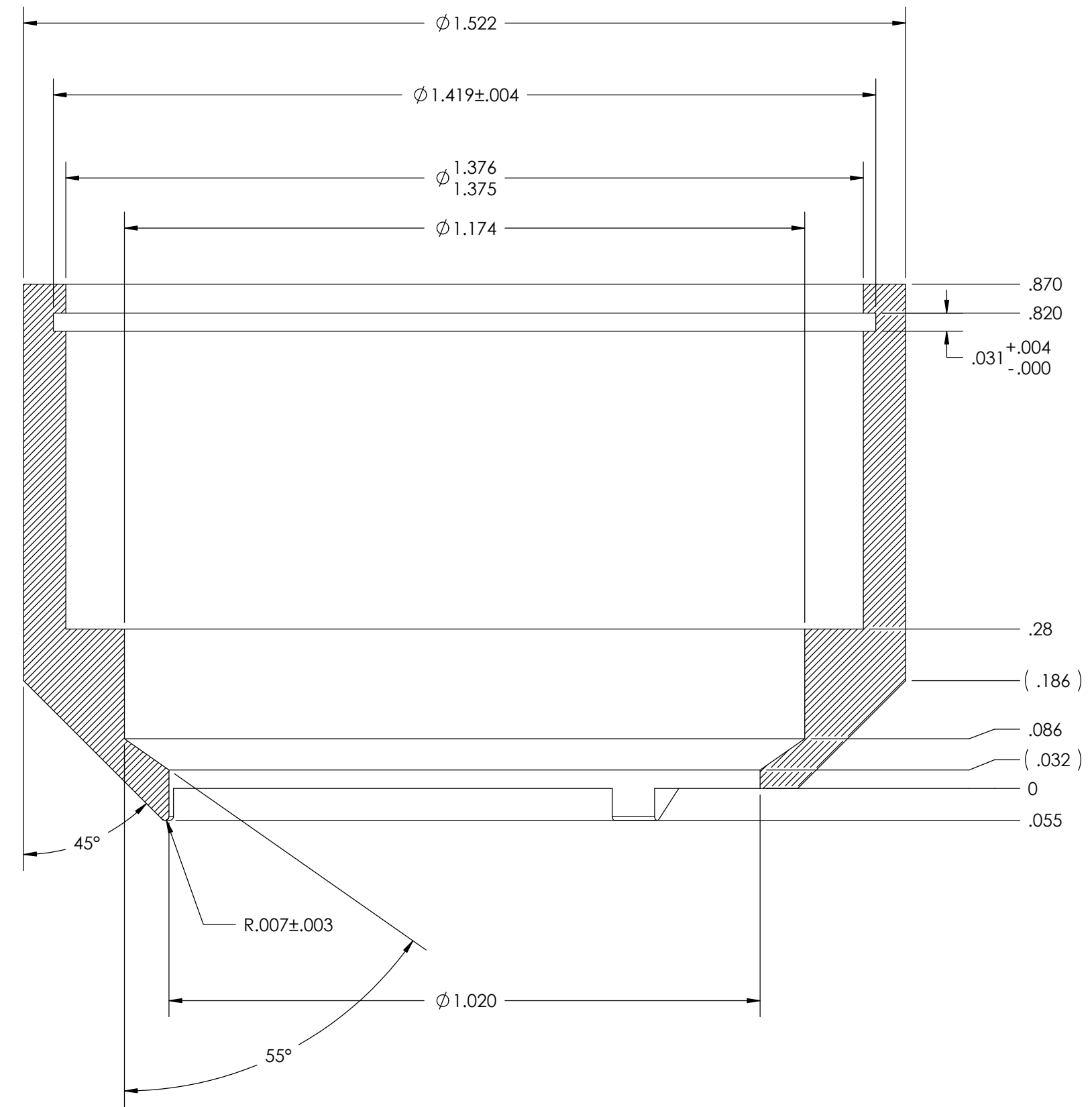
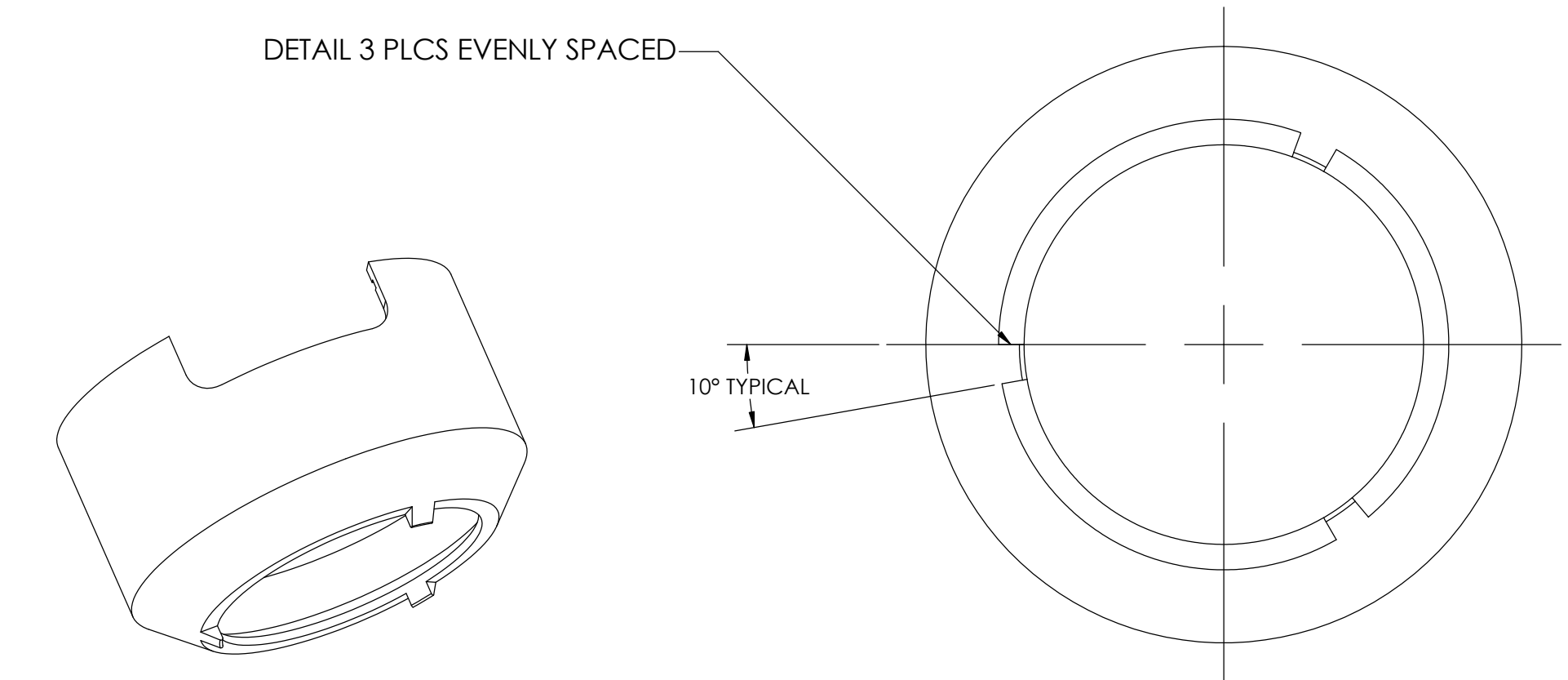
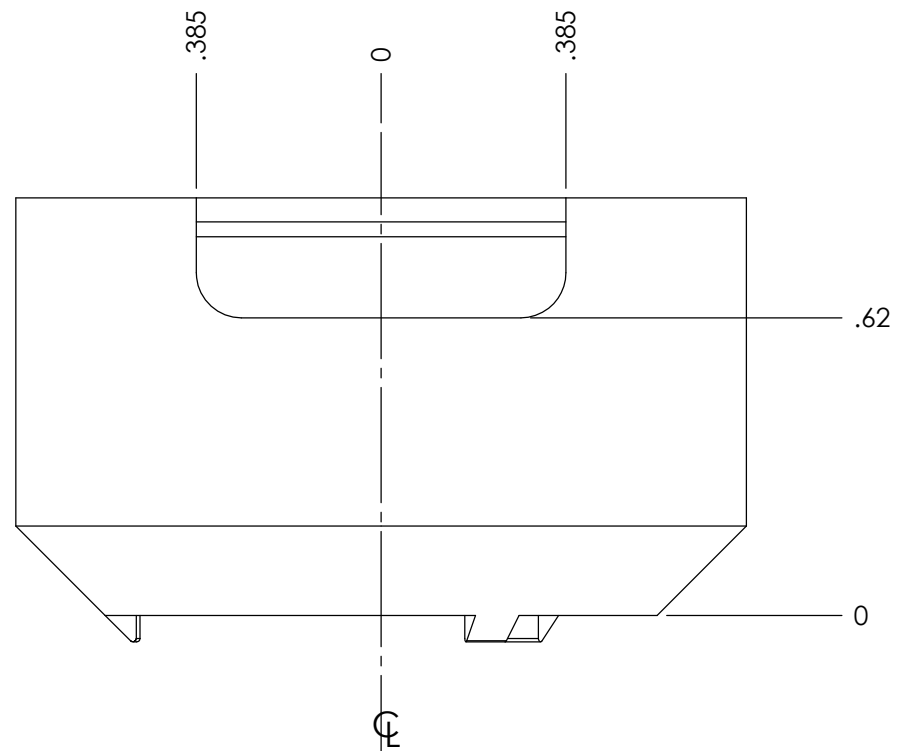
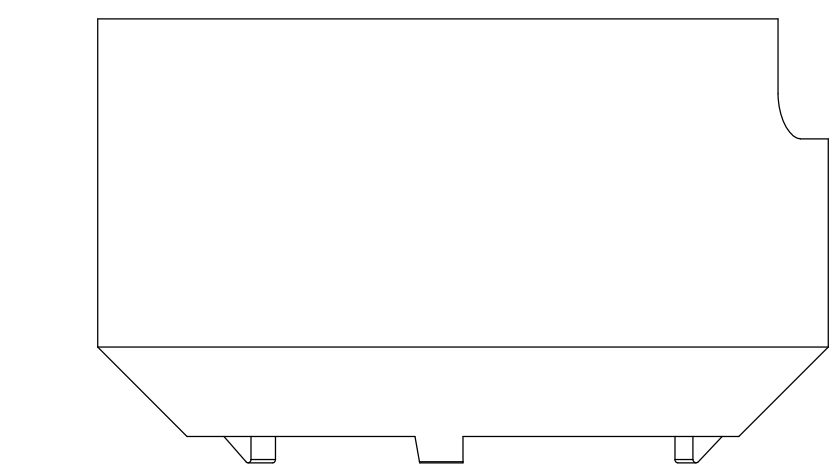
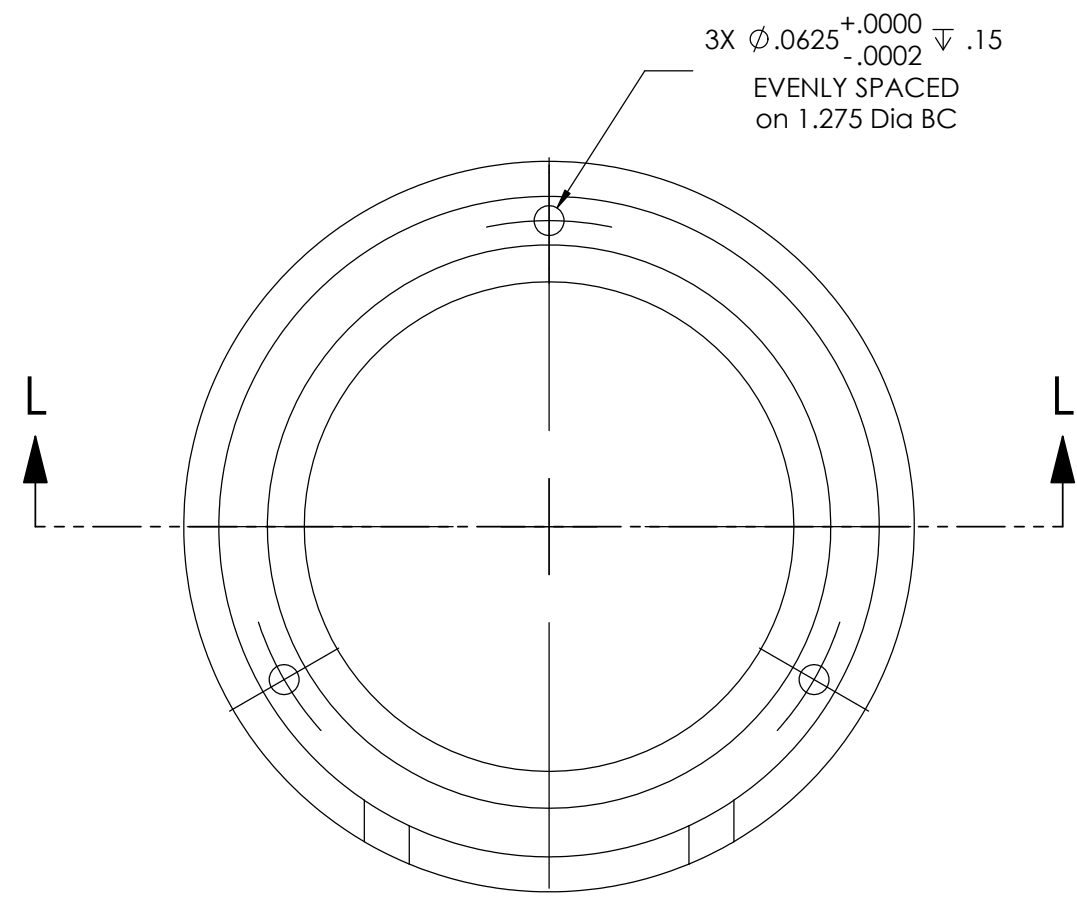


SECTION K-K

ITEM NO.	PART NUMBER	DESCRIPTION	Material	QTY.
1	1002402-009	Light Seal shaft	6061-T6 Aluminum	1
BILL OF MATERIALS				last updated on: Wednesday, March 29, 2006 10:36:17 AM
Shop / Q.C.		APPROVALS		
Inspector		ENGINEER		
Shop Foreman		Jason Feldman		
Engineer		831-775-1837		
NEXT ASSY Description		CHECKED		
NEXT ASSY Number		PROJECT NUMBER		
		701312.00		
		PROJECT		
		ESP 2G		
		SIZE		
		C		
		DWG. NO.		
		1002402		
		REV.		
		E		
		CAMERA MOUNT & LIGHT SEAL		
		CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209)		
		SHEET 8 OF 11		

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

1002402-010 PUCK RELEASE



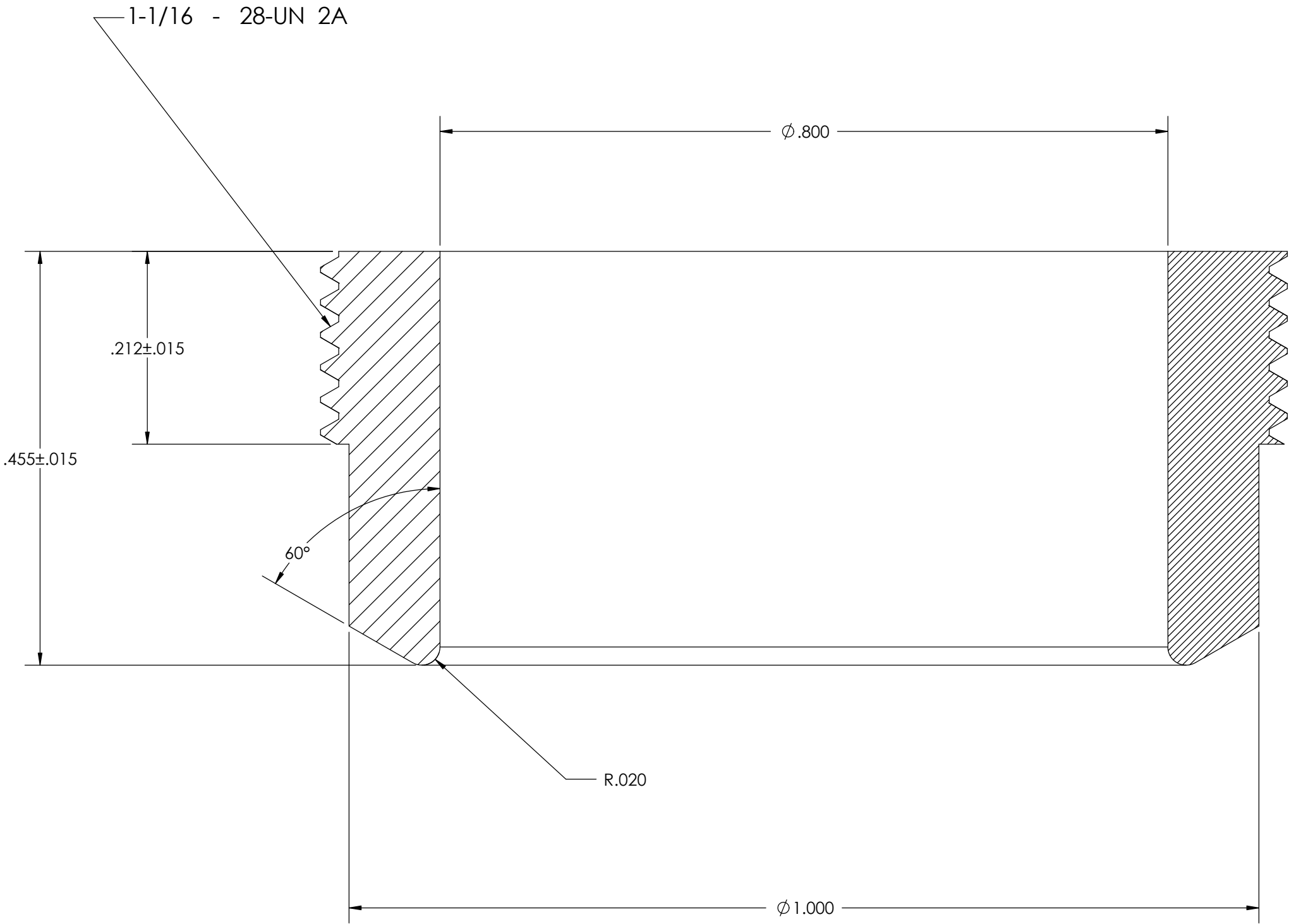
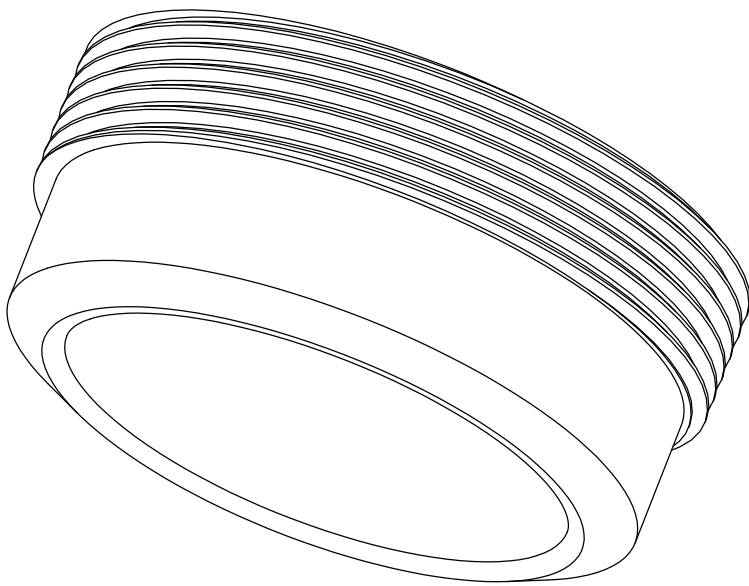
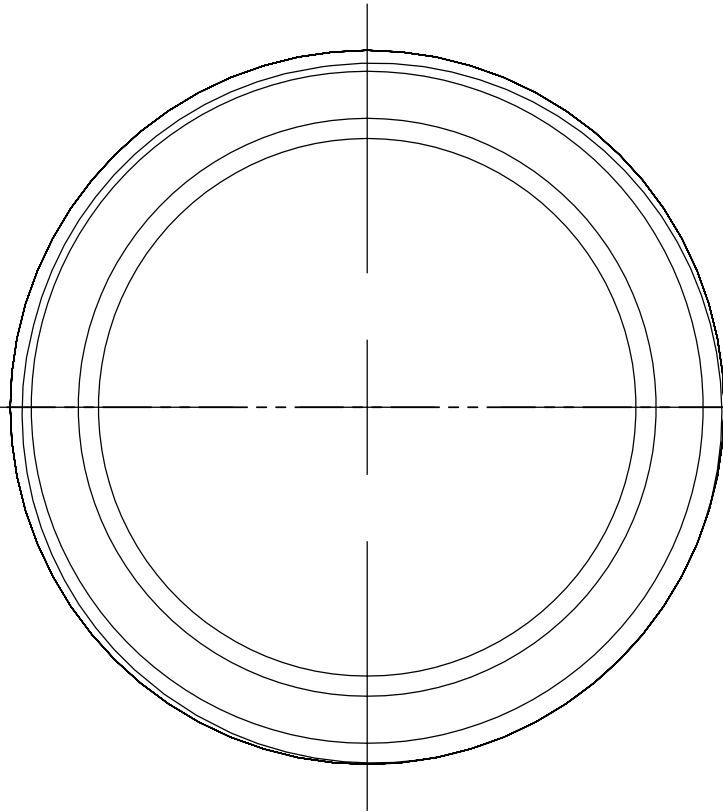
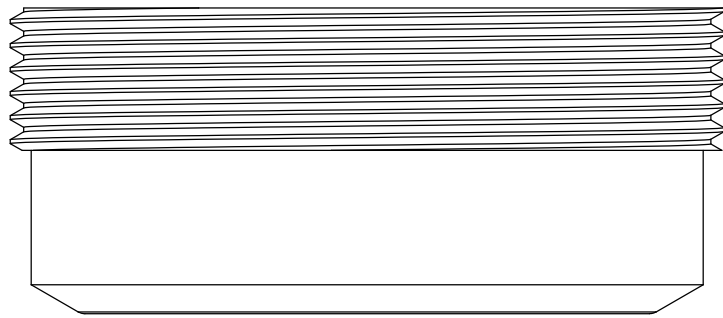
SECTION L-L
SCALE 4.5 : 1

ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
10	1002402-010	Puck Release	Vespel SP- 21	1

BILL OF MATERIALS				last updated on: Wednesday, March 29, 2006 10:36:17 AM	
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE	
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.01	ENGINEER	Monterey Bay Aquarium Research Institute 7700 Sandholdt Road Moss Landing, CA 95039
Shop Foreman		3 PLACE DIM ±.005	ANGLES ±1°	Jason Feldman 831-775-1837	
Engineer				CHECKED	
		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		PROJECT NUMBER 701312.00	
NEXT ASSY Description		NEXT ASSY Number		CAMERA MOUNT & LIGHT SEAL	
				SIZE	DWG. NO.
				C	1002402
				REV.	E
CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209) SHEET 9 OF 11					

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

1002402-011
LIGHT SEAL

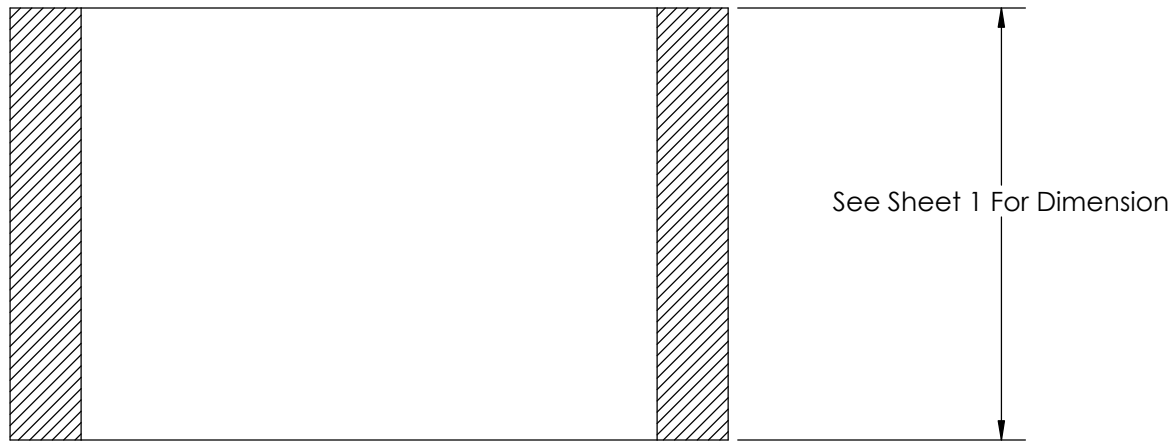
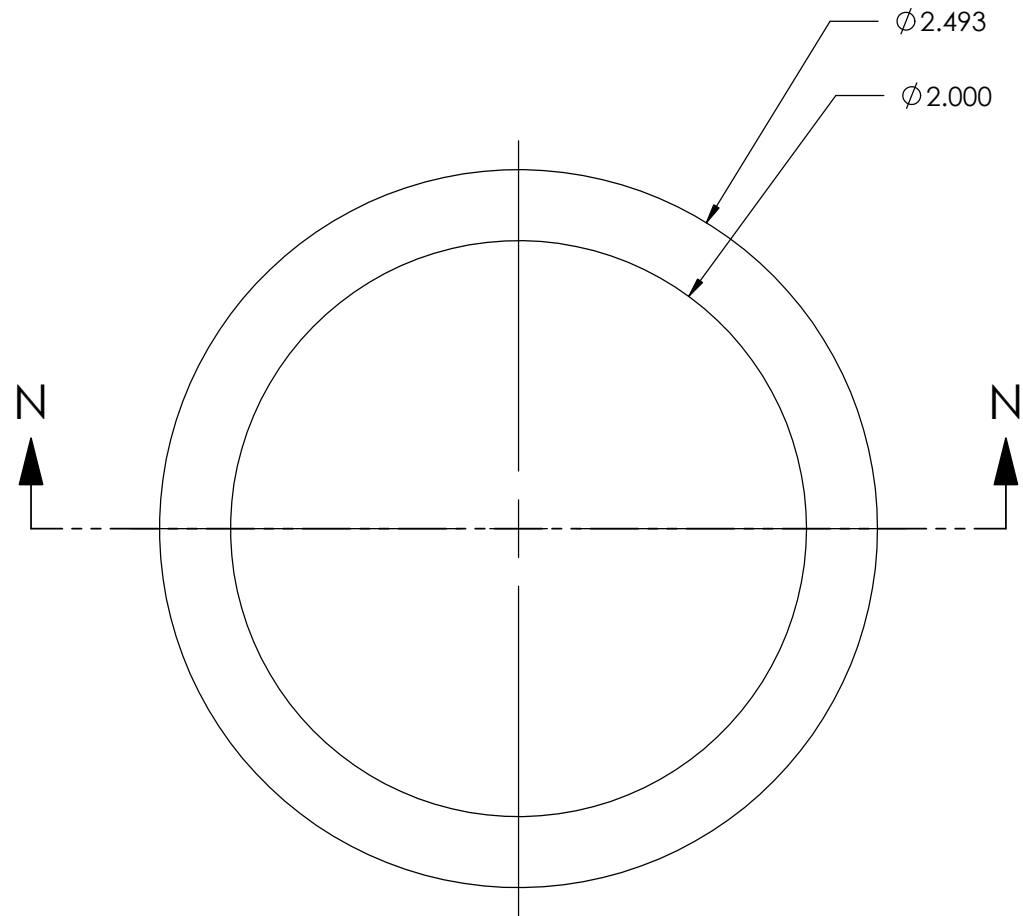


SECTION M-M
SCALE 7.5 : 1

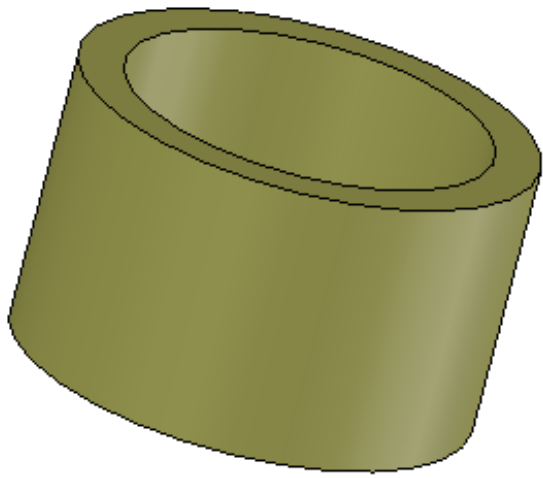
ITEM NO. 11		PART NUMBER 1002402-011	DESCRIPTION Light Seal	MATERIAL Torlon 4301	QTY. 1
BILL OF MATERIALS					last updated on: Wednesday, March 29, 2006 10:36:17 AM
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE	
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.01	3 PLACE DIM ±.005	ANGLES ±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 Jason Feldman 831-775-1837	
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		CHECKED	
NEXT ASSY Description	NEXT ASSY Number	PROJECT NUMBER 701312.00		PROJECT ESP 2G	
DO NOT SCALE DRAWING		CAMERA MOUNT & LIGHT SEAL		SIZE C	DWG. NO. 1002402
		CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209)		REV. E	
				SHEET 10 OF 11	

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.

1002402-007
CAMERA SPACER



SECTION N-N



ITEM NO.	Material	PART NUMBER	DESCRIPTION	QTY.
1	6061-T6 Al	1002402-007	Camera Spacer	1

BILL OF MATERIALS				last updated on: Wednesday, March 29, 2006 10:36:17 AM	
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS	DATE
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.01	3 PLACE DIM ±.005	ANGLES ±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		CAMERA MOUNT & LIGHT SEAL	
		PROJECT ESP 2G		SIZE C	DWG. NO. 1002402
DO NOT SCALE DRAWING		CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209)		REV. E	
				SHEET 11 OF 11	