

1002402 Camera Mount and Seal

Camera

1002402-007

Spacer cut: .38 - .41
To provide correct focus

1002402-002

1002402-001

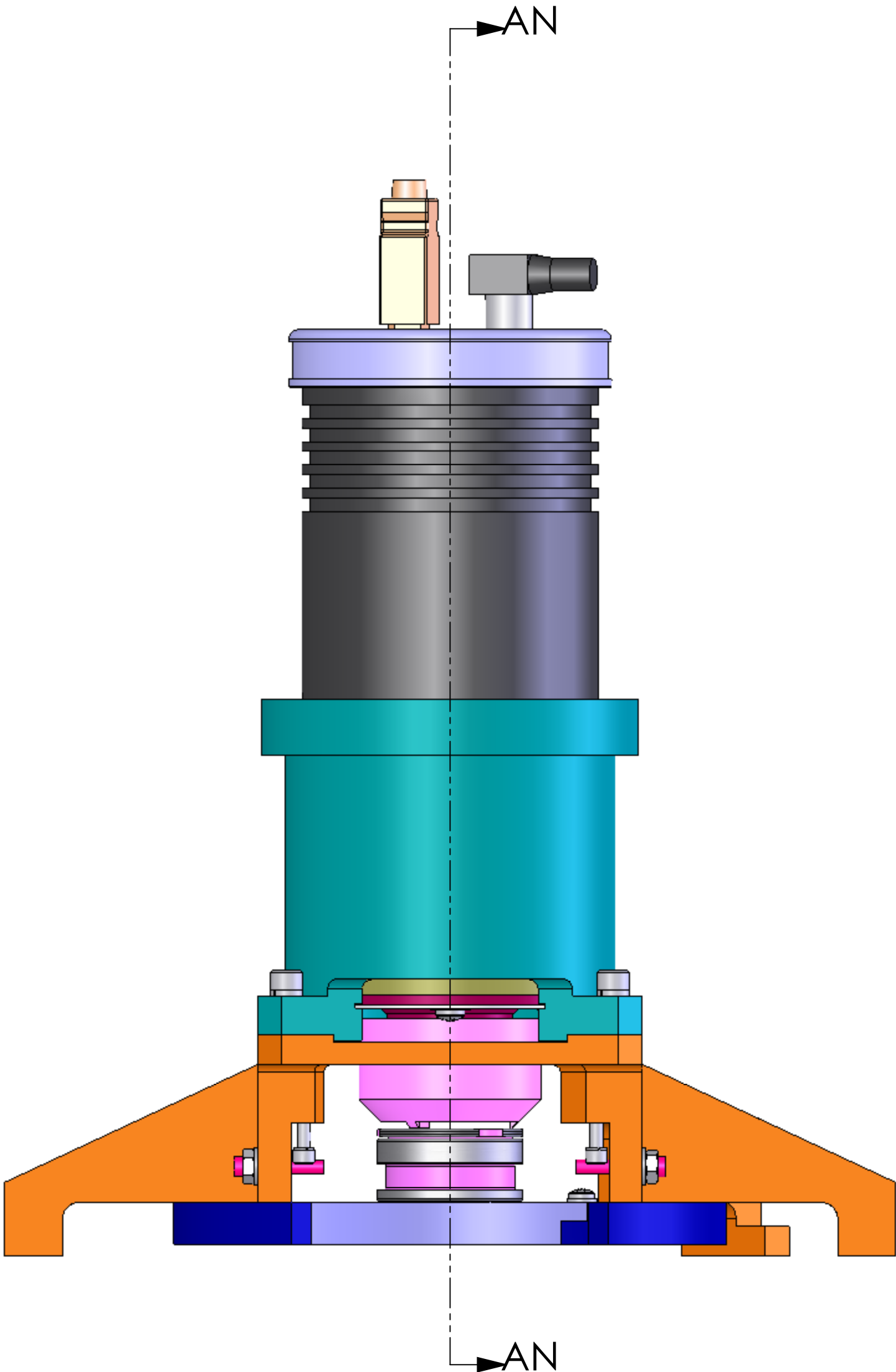
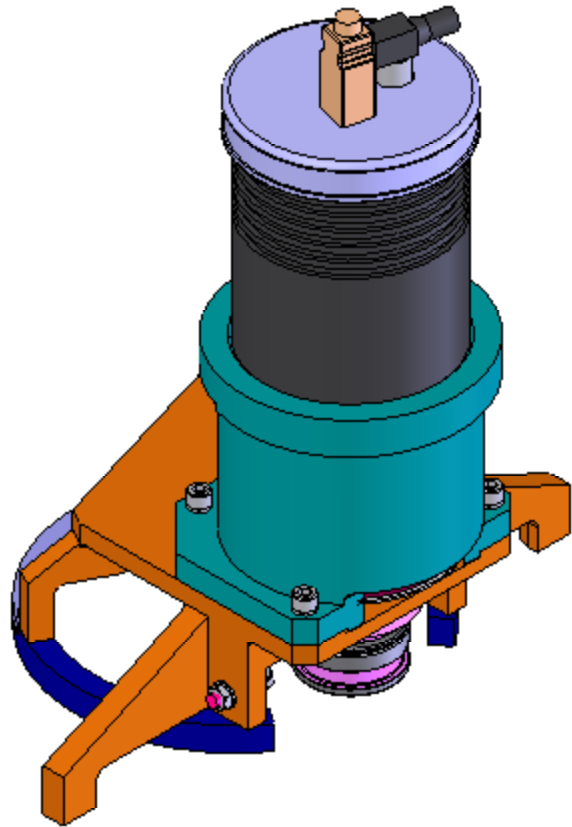
1002402-009

1002402-010

1002402-006

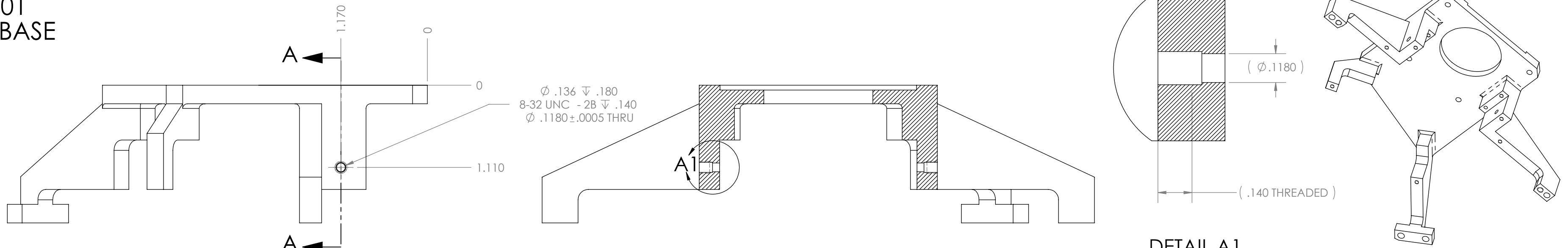
1002402-011

SECTION AN-AN
SCALE 1 : 1

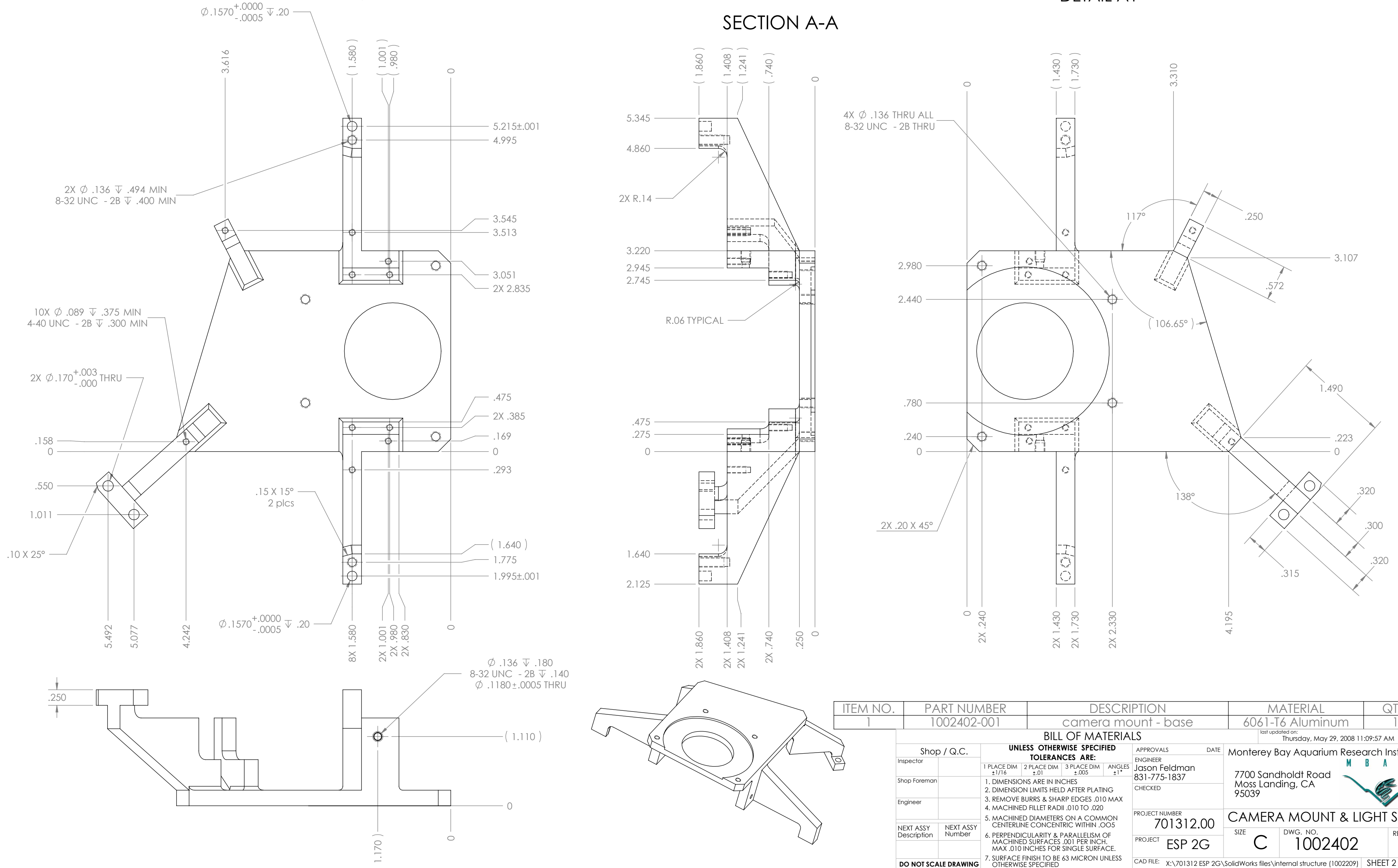


Shop / Q.C.				UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS		DATE		Monterey Bay Aquarium Research Institute ENGINEER Jason Feldman 831-775-1837 CHECKED		7700 Sandholdt Road Moss Landing, CA 95039				
Inspector																
Shop Foreman		1 PLACE DIM ±1/16		2 PLACE DIM ±.01	3 PLACE DIM ±.005	ANGLES ±1°	PROJECT NUMBER		701312.00		CAMERA MOUNT & LIGHT SEAL		SIZE		DWG. NO.	REV.
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		ESP 2G		C		1002402		E	
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					CAD FILE:		X:\701312 ESP 2G\SolidWorks files\internal structure (1002209)		SHEET 1 OF 11					
DO NOT SCALE DRAWING																

1002402-001
CAMERA BASE



SECTION A-A

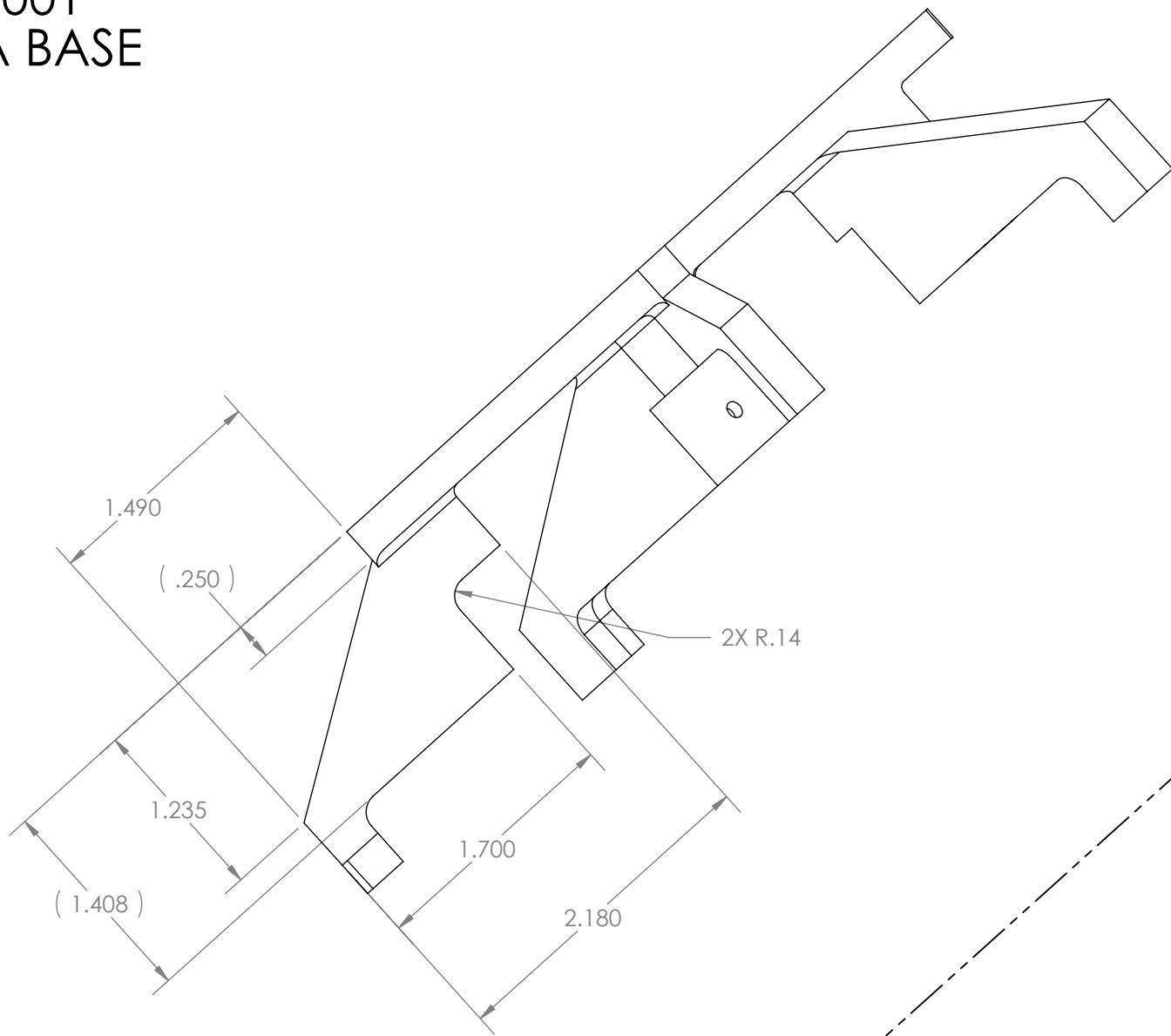


ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
1	1002402-001	camera mount - base	6061-T6 Aluminum	1

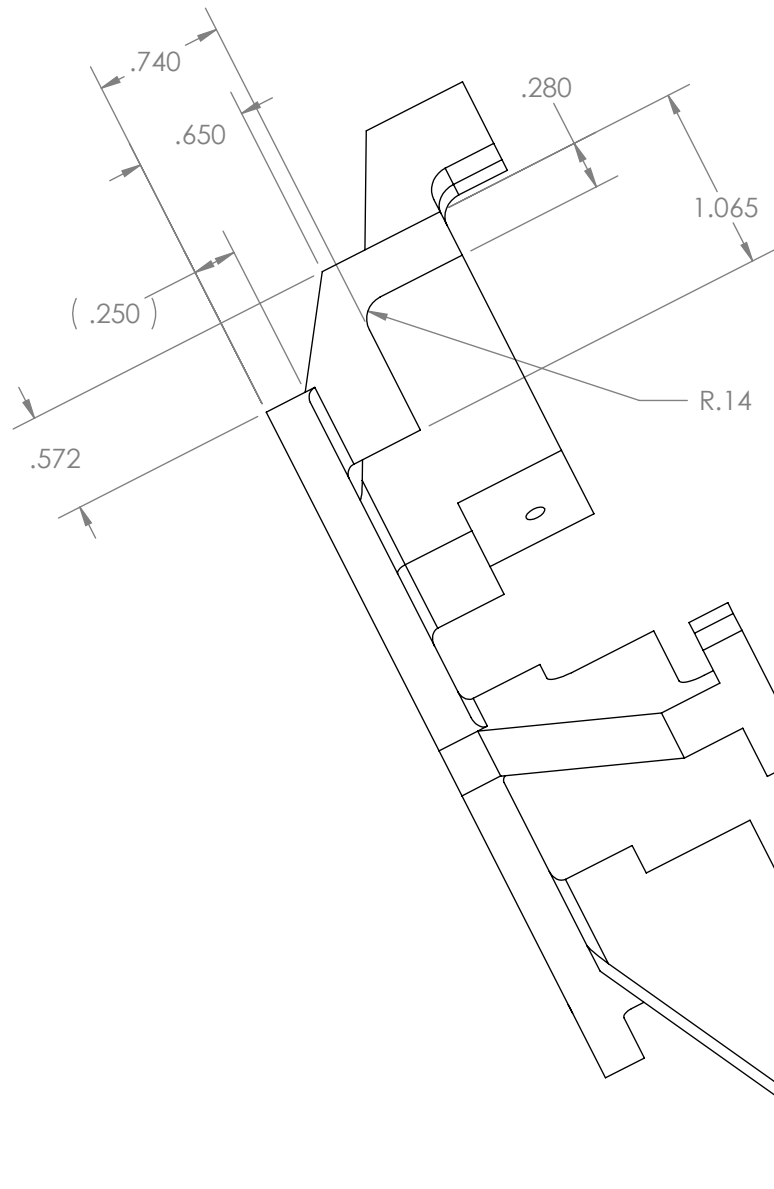
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED		APPROVALS		DATE	
Inspector		TOLERANCES ARE:		ENGINEER		Thursday, May 29, 2008 11:09:57 AM	
Shop Foreman		1 PLACE DIM	2 PLACE DIM	3 PLACE DIM	ANGLES	Jason Feldman	
Engineer		±.1/16	±.01	±.005	±1°	831-775-1837	
NEXT ASSY Description		NEXT ASSY Number		CHECKED		PROJECT NUMBER	
						701312.00	
						PROJECT	
						ESP 2G	
						CAMERA MOUNT & LIGHT SEAL	
						SIZE	
						C	
						DWG. NO.	
						1002402	
						REV.	
						E	
						CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209)	
						SHEET 2 OF 11	

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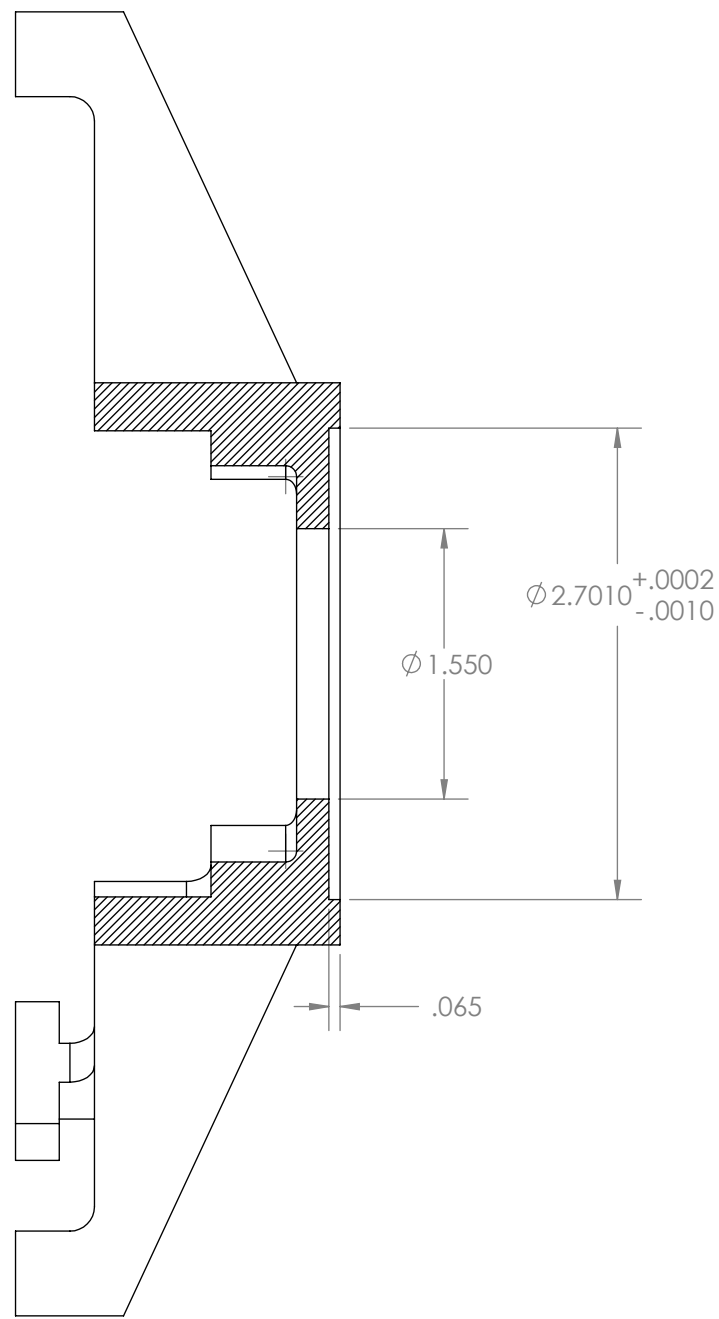
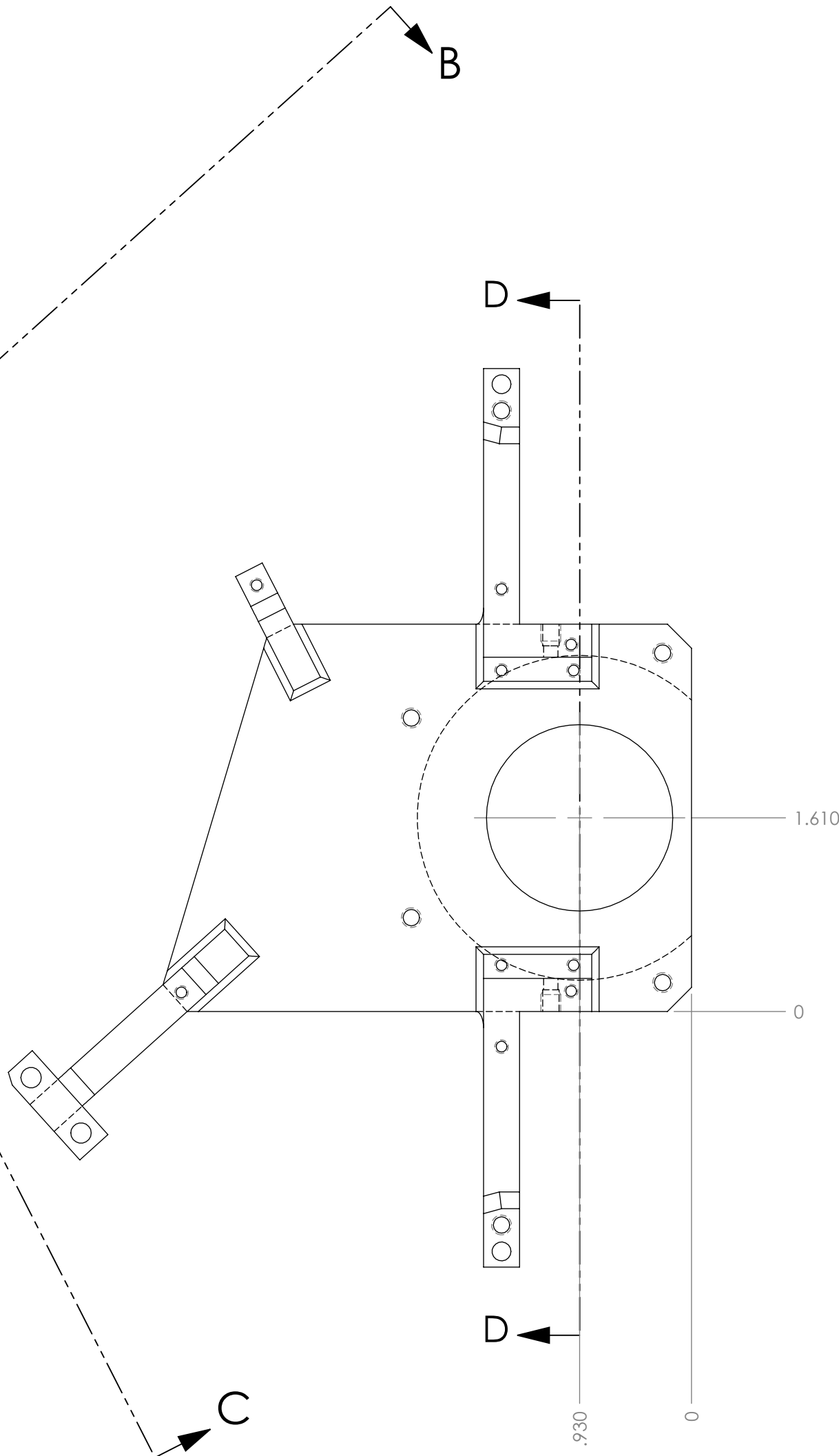
1002402-001
CAMERA BASE



VIEW B-B



VIEW C-C

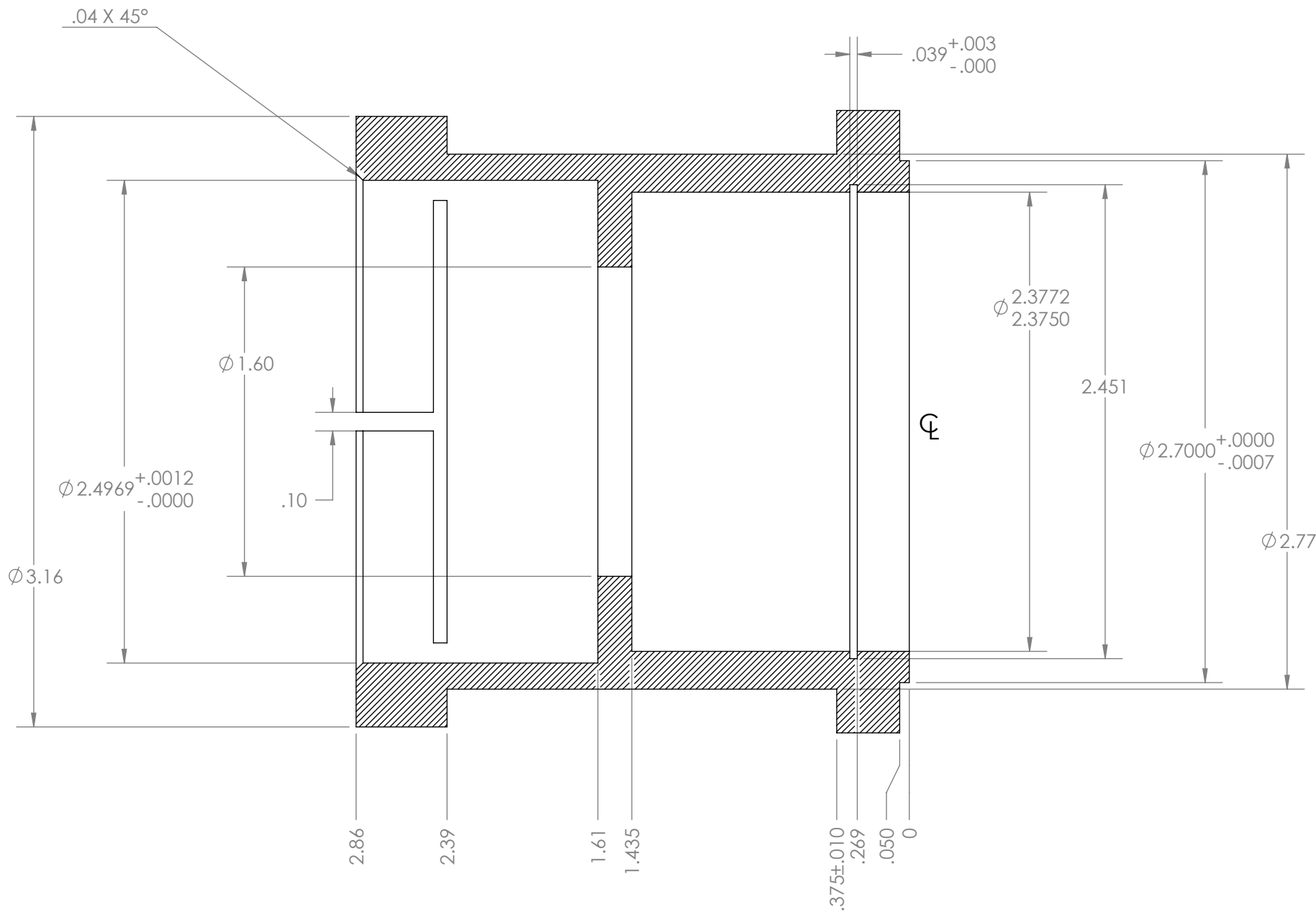
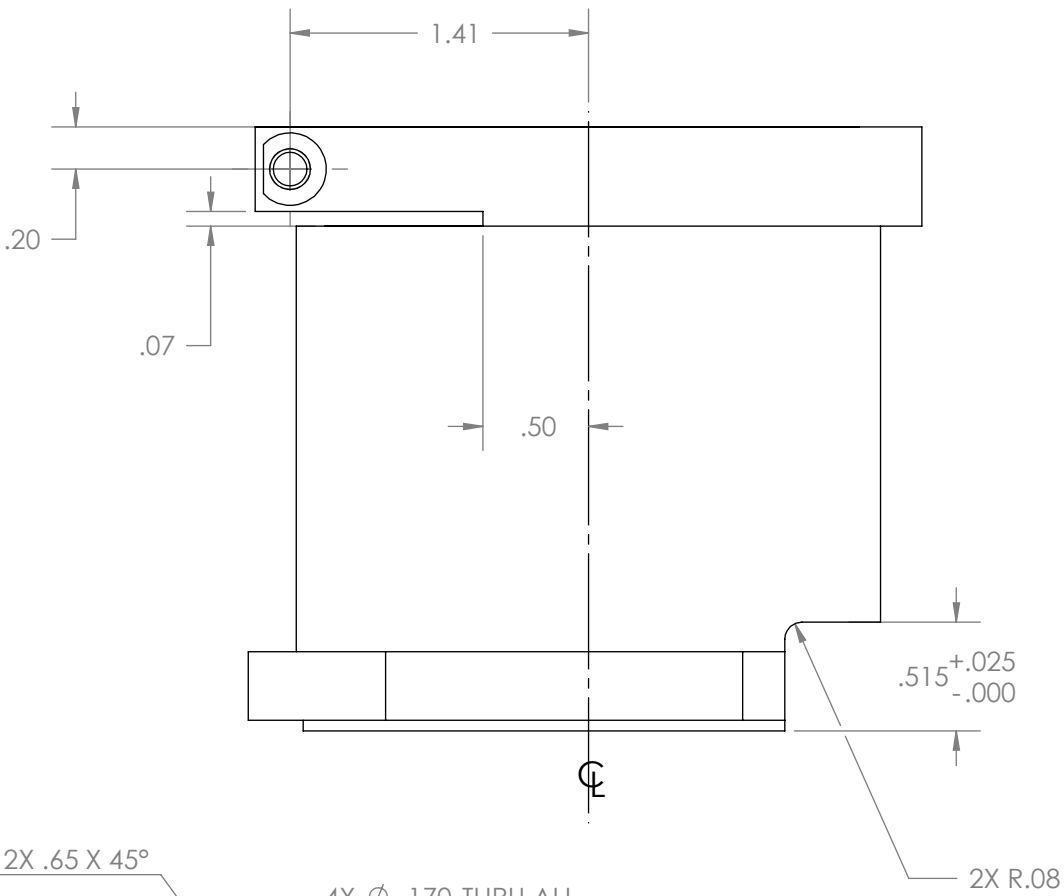
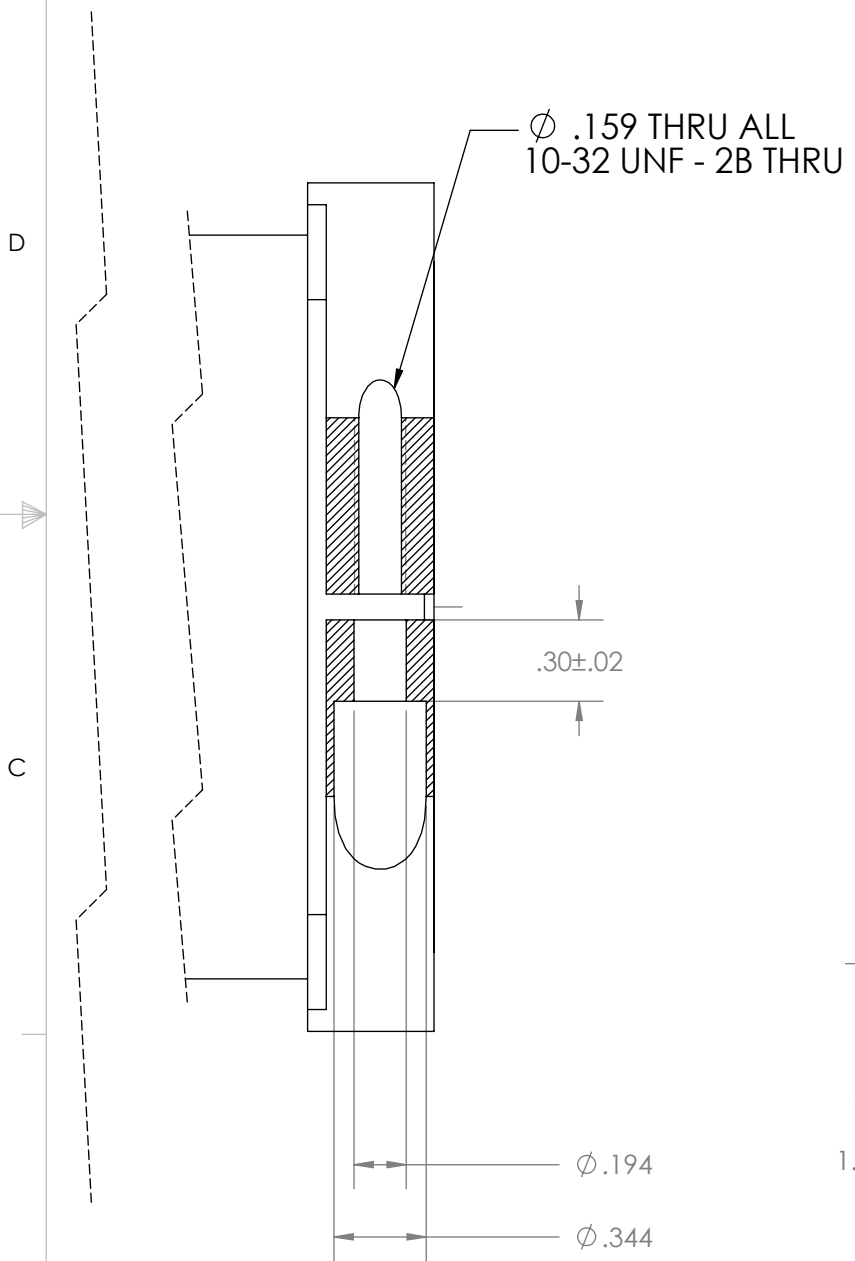
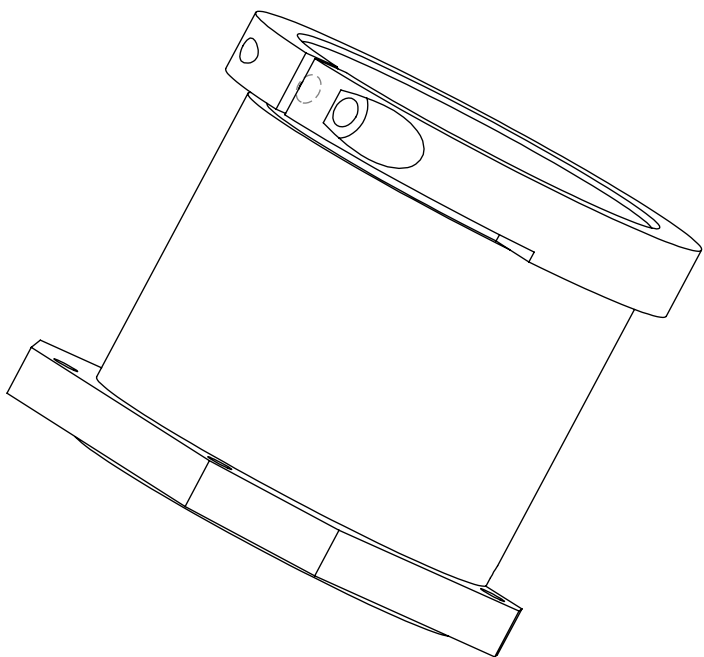
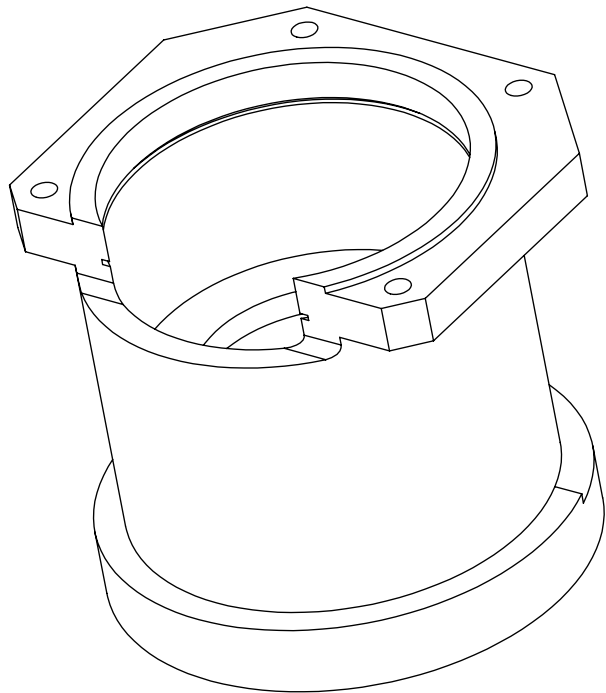
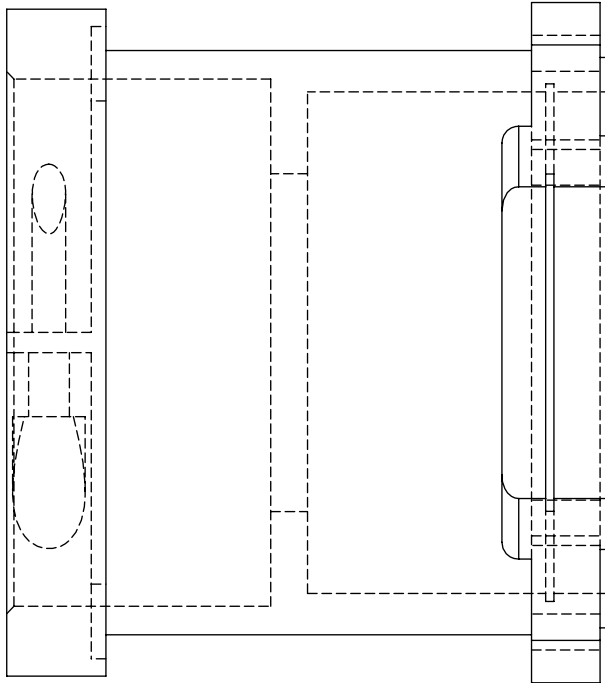
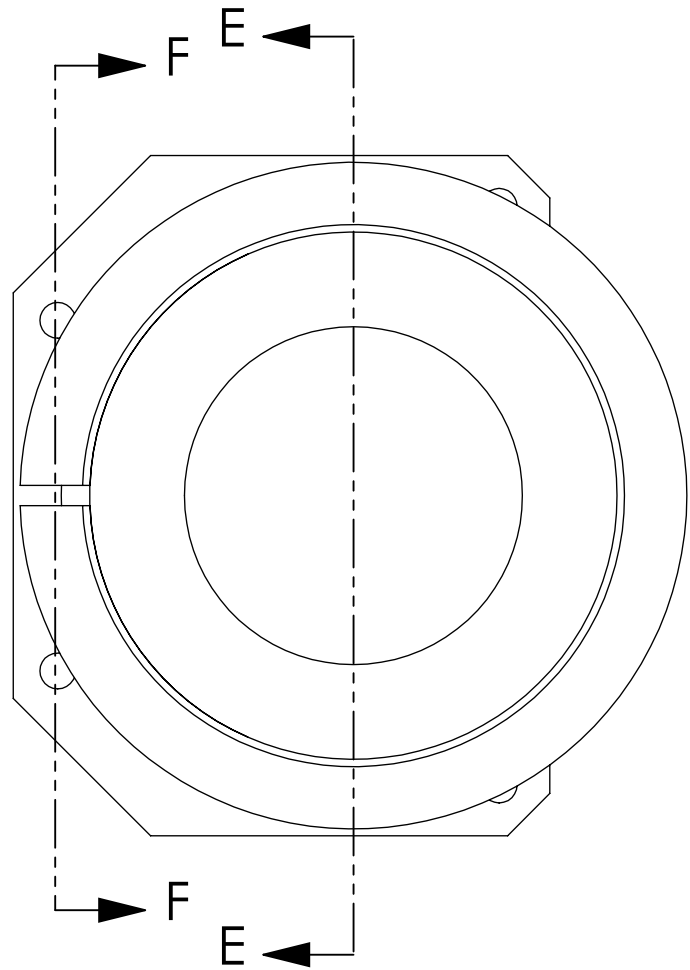
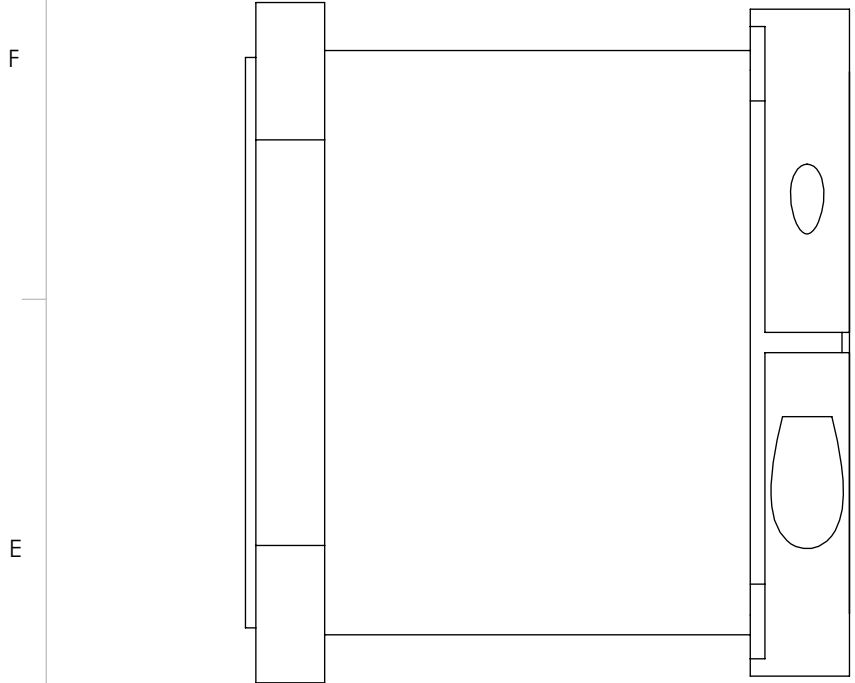


SECTION D-D

BILL OF MATERIALS				last updated on: Thursday, May 29, 2008 11:09:57 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°		
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		CHECKED	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. 7. SURFACE FINISH TO BE 63 MICRON UNLESS OTHERWISE SPECIFIED		PROJECT NUMBER 701312.00	
DO NOT SCALE DRAWING		PROJECT ESP 2G		SIZE C	DWG. NO. 1002402
		CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209)		REV. E	

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1002402-002 CAMERA CLAMP



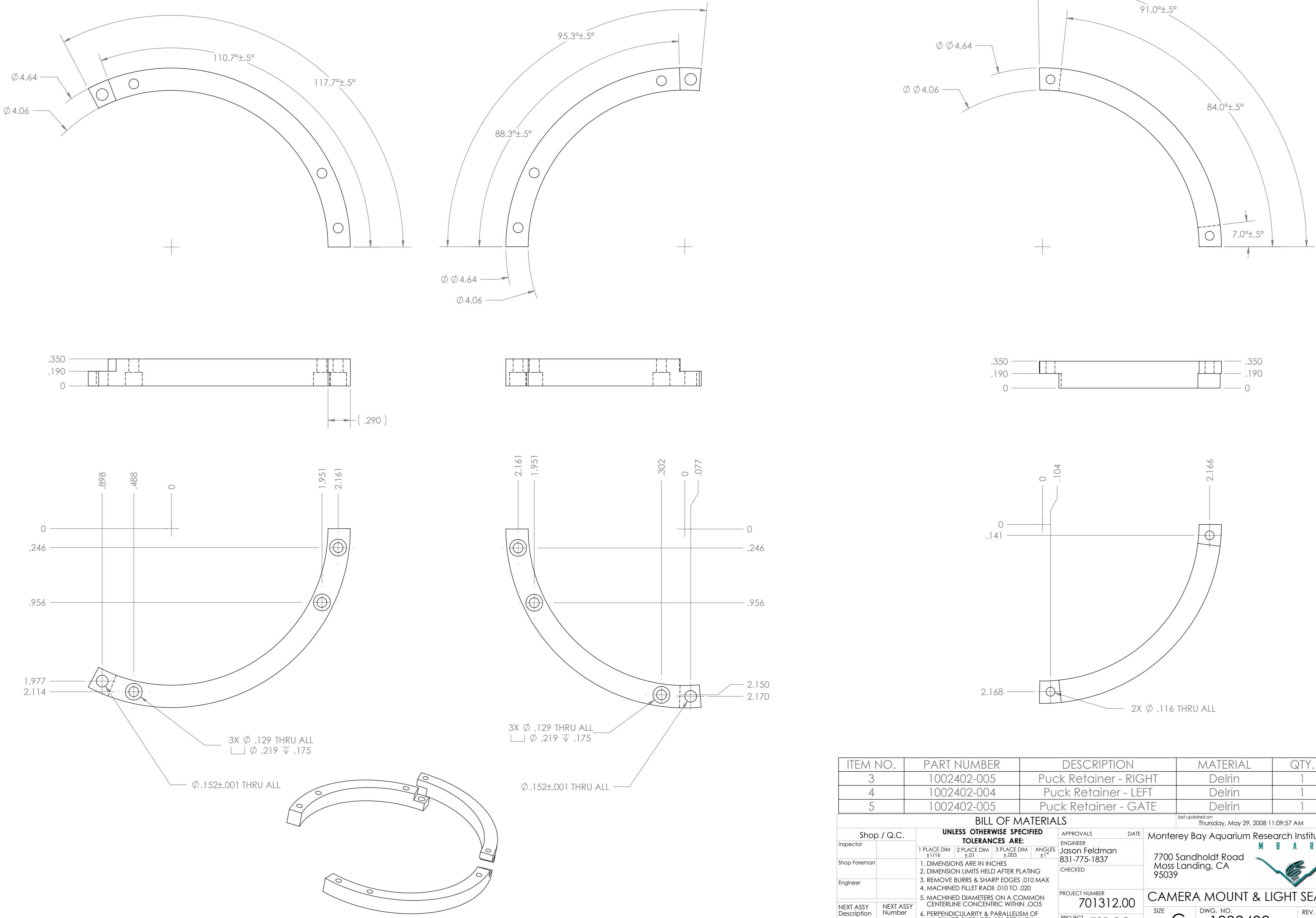
SECTION F-F

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									
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 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005				CHECKED			
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				PROJECT NUMBER 701312.00			
NEXT ASSY Description	NEXT ASSY Number					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 4 OF 11			

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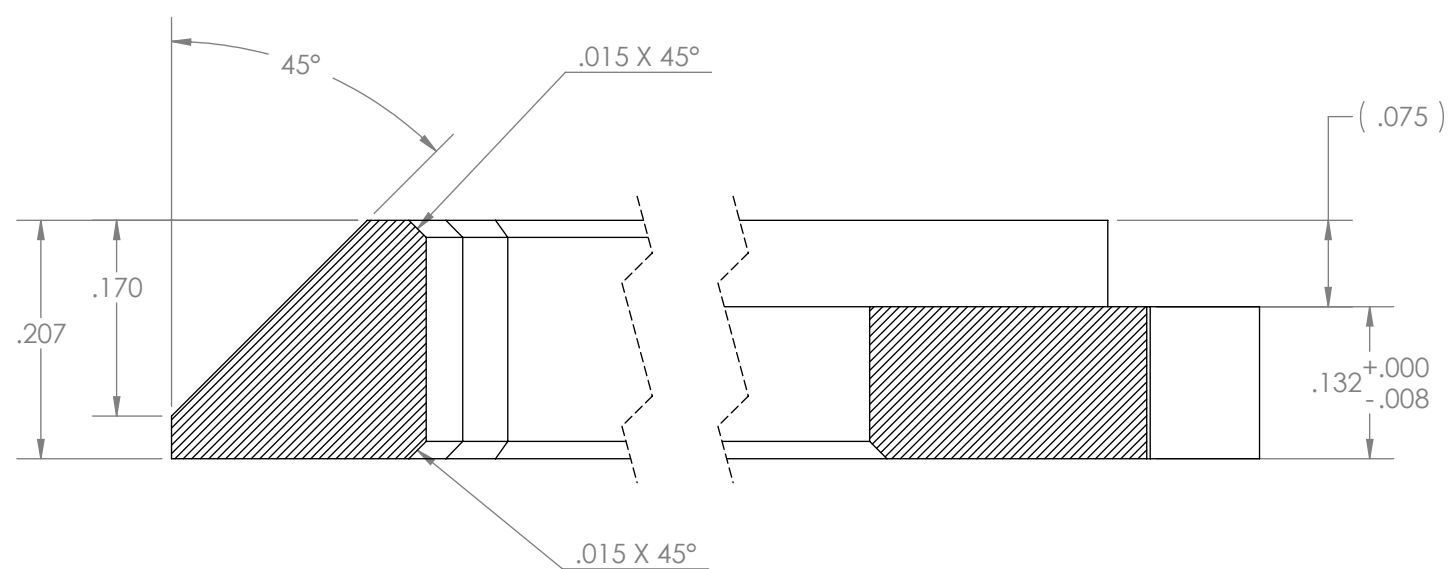
1002402-003, -004, -005
PUCK RETAINER



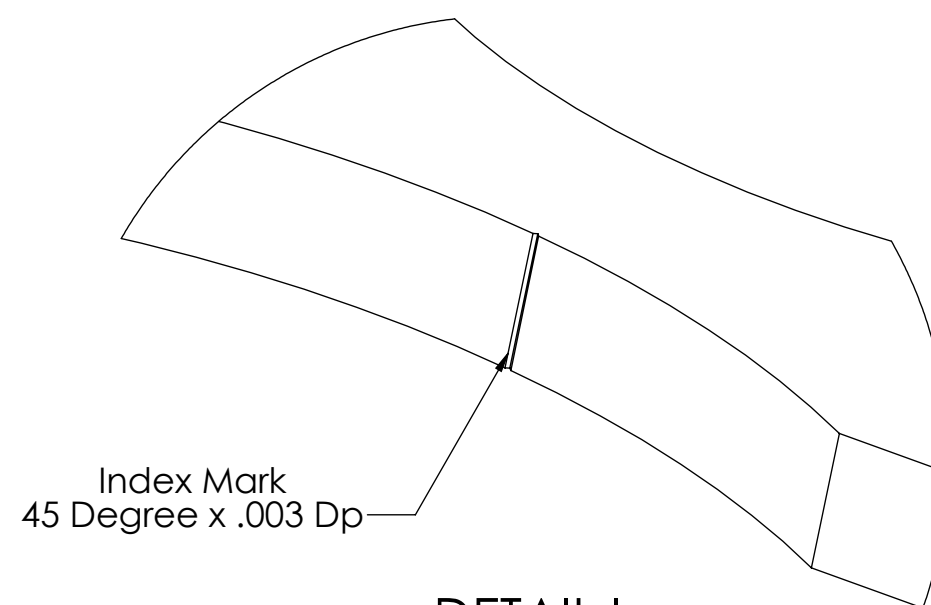
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3	1002402-005	Puck Retainer - RIGHT	Delrin	1
4	1002402-004	Puck Retainer - LEFT	Delrin	1
5	1002402-005	Puck Retainer - GATE	Delrin	1

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	Thursday, May 29, 2008 11:09:57 AM
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			
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 5 OF 11

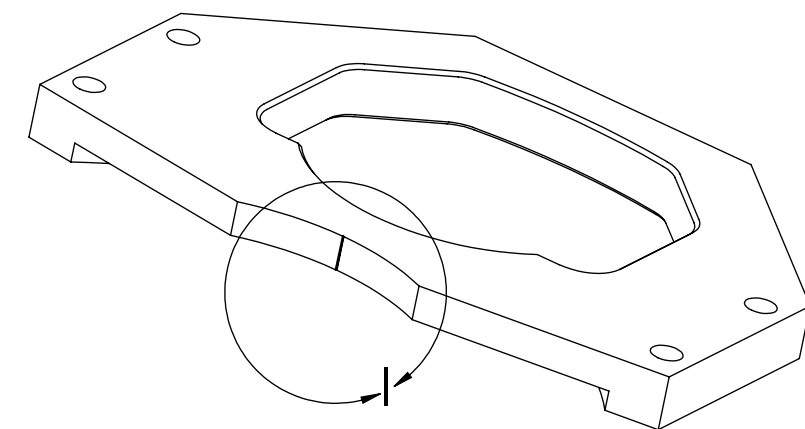
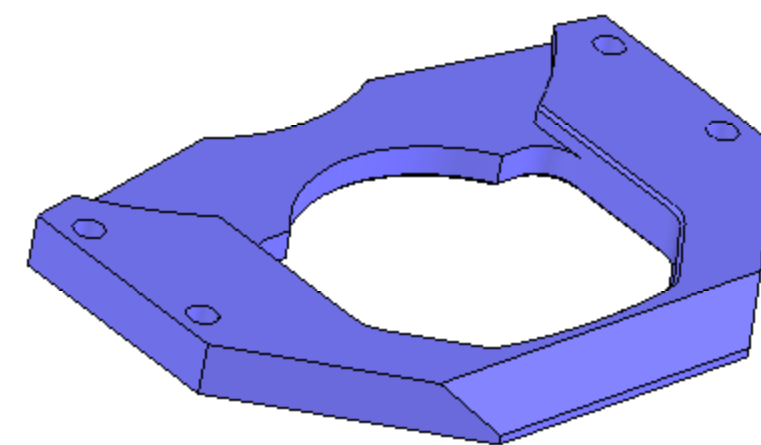
1002402-006
CAMERA - PUCK GUIDE



SECTION G-G
SCALE 6 : 1



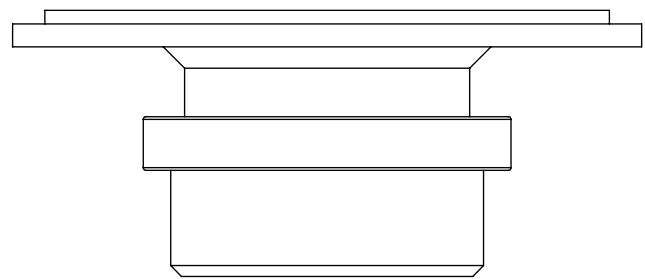
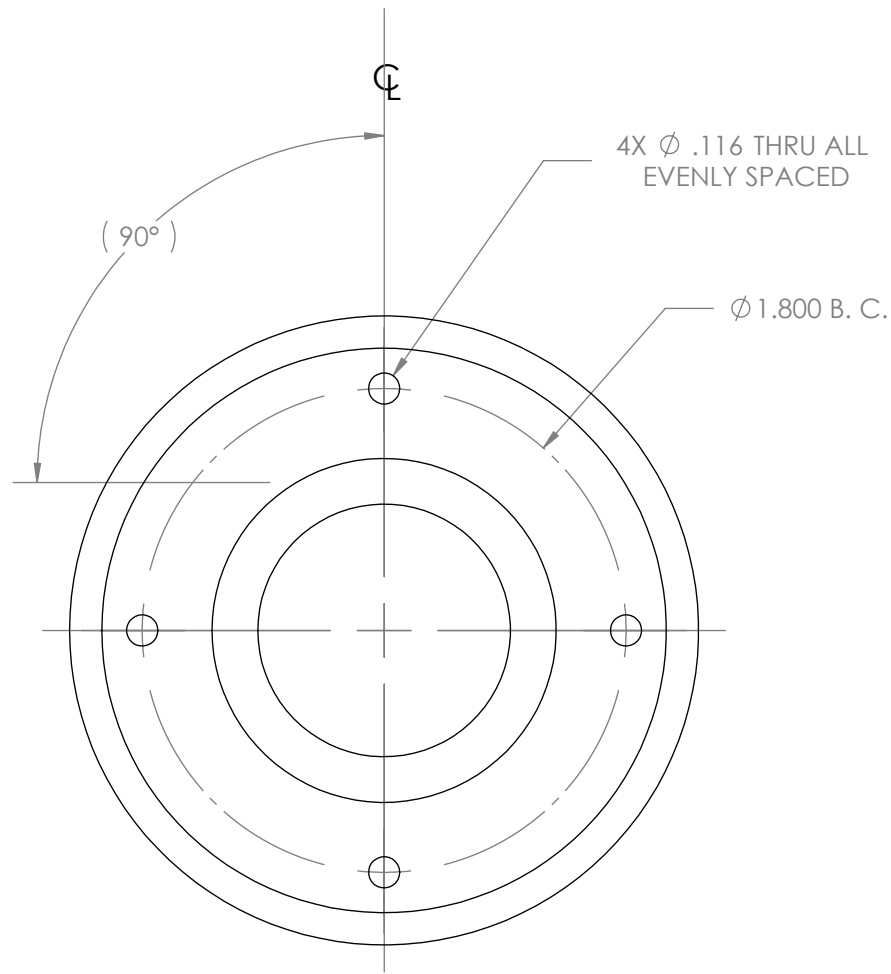
DETAIL I



BILL OF MATERIALS				last updated on: Thursday, May 29, 2008 11:09:57 AM	
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE ENGINEER Jason Feldman 831-775-1837	
Inspector		1 PLACE DIM ±.1/16	2 PLACE DIM ±.01	3 PLACE DIM ±.005	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.			PROJECT NUMBER 701312.00
		7. SURFACE FINISH TO BE .63 MICRON UNLESS OTHERWISE SPECIFIED			PROJECT ESP 2G
DO NOT SCALE DRAWING		CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209)			SIZE DWG. NO. REV. C 1002402 E
				SHEET 6 OF 11	

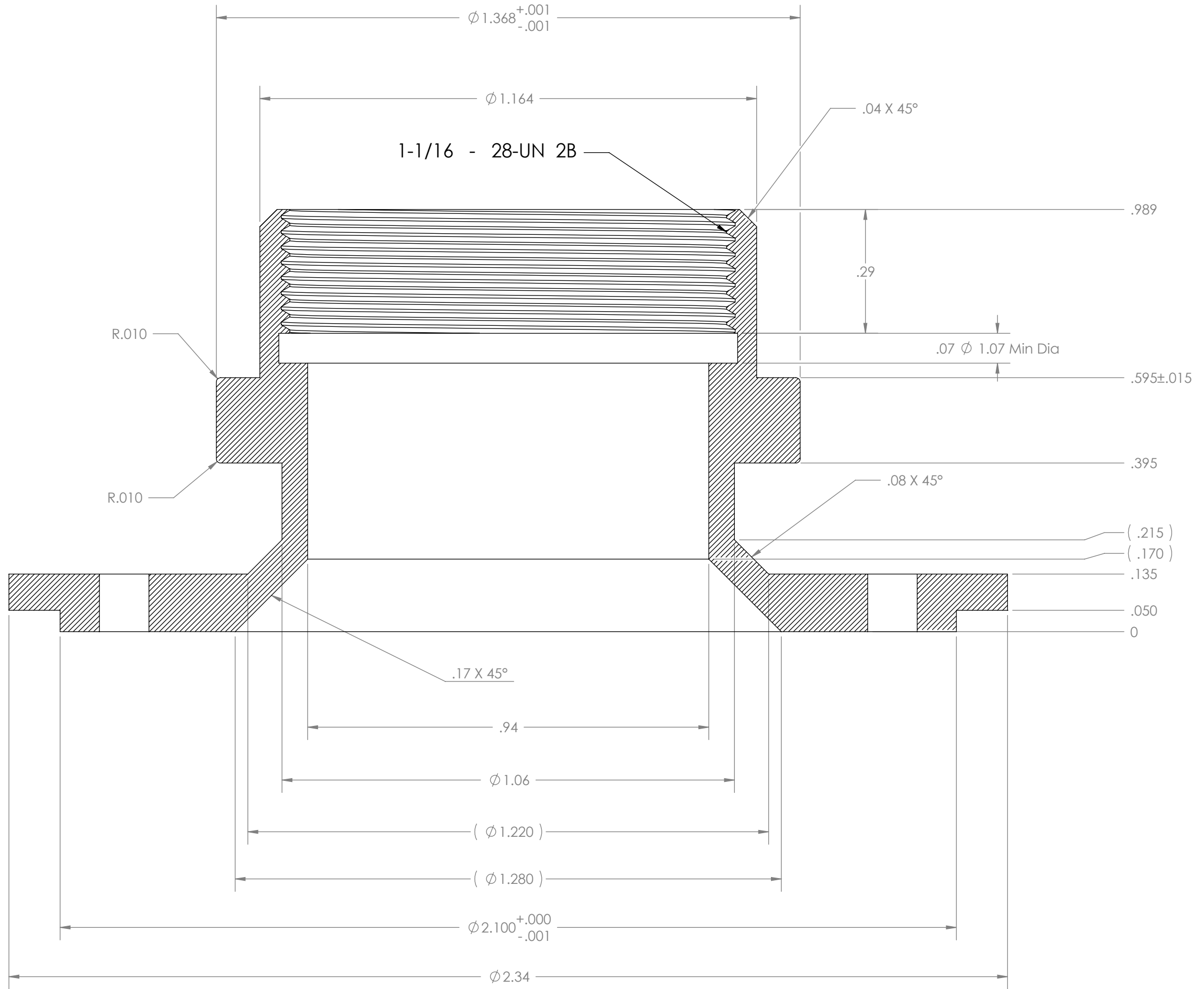
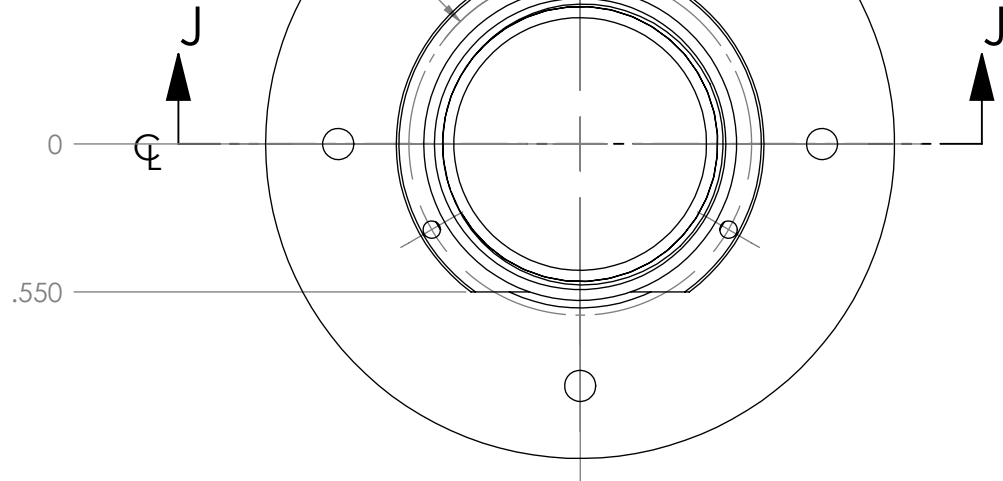
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1002402-008
LIGHT SEAL FLANGE



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

Ø 1.275 B. C.



SECTION J-J

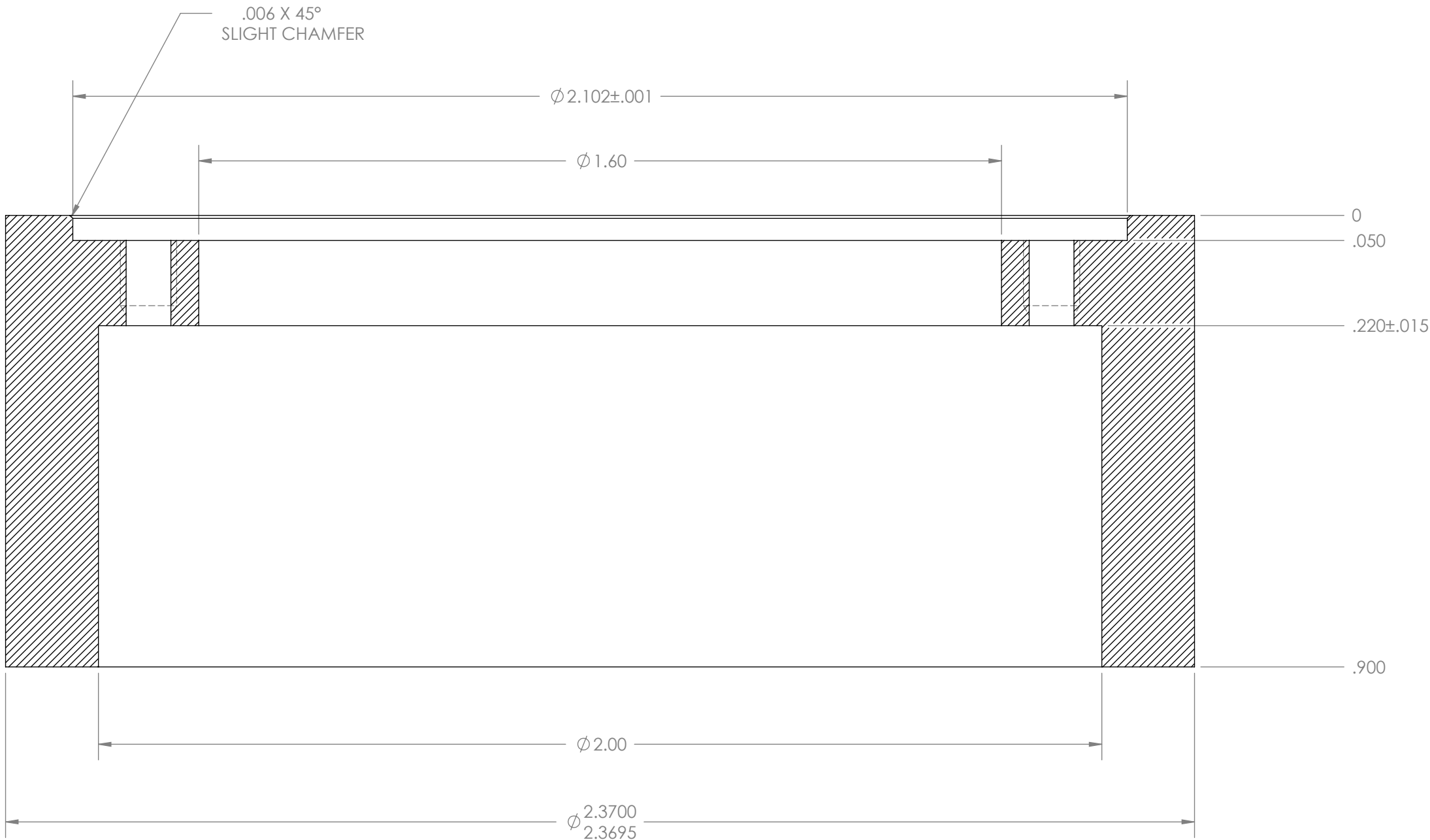
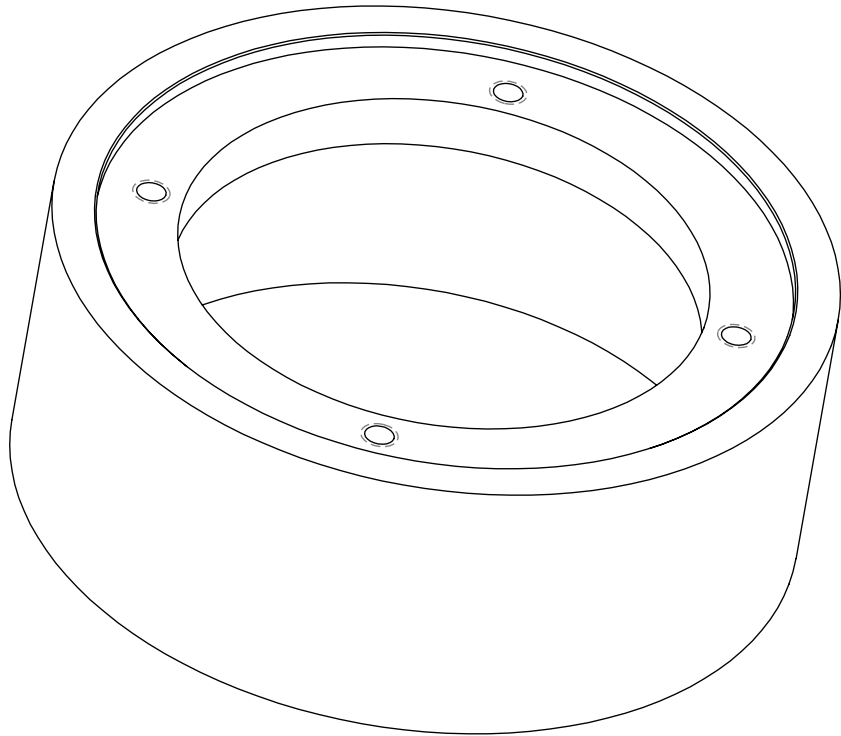
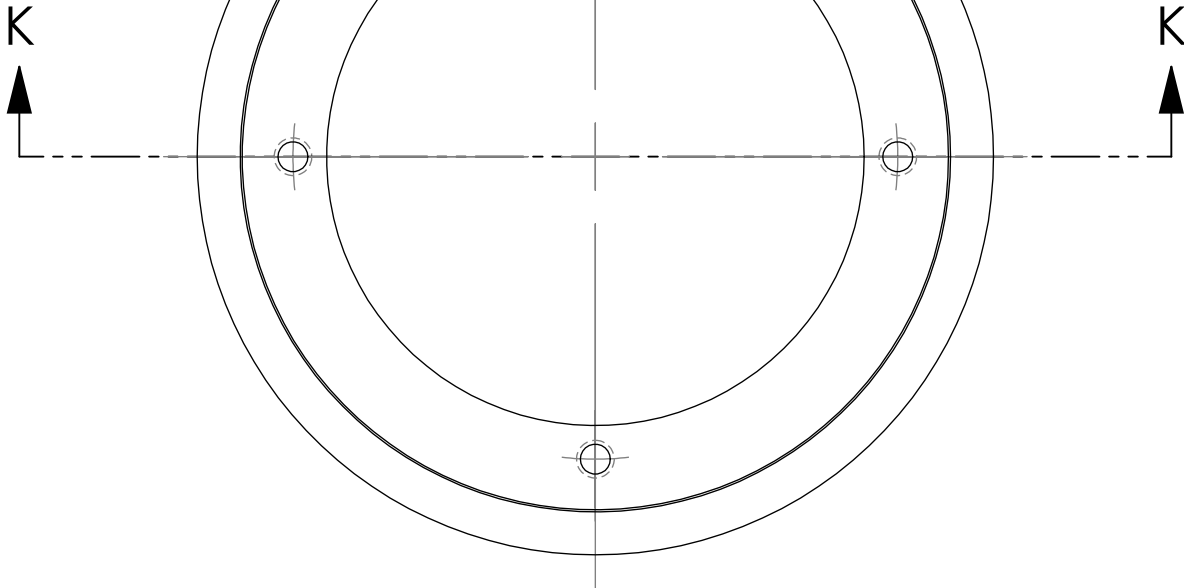
ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
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BILL OF MATERIALS					last updated on: Thursday, May 29, 2008 11:09:57 AM				
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:			APPROVALS DATE		Monterey Bay Aquarium Research Institute		
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.01	3 PLACE DIM ±.005	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				CHECKED		CAMERA MOUNT & LIGHT SEAL	
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				PROJECT NUMBER 701312.00		SIZE DWG. NO. REV.	
NEXT ASSY Description	NEXT ASSY Number					PROJECT ESP 2G		C 1002402 E	
DO NOT SCALE DRAWING						CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209)		SHEET 7 OF 11	

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1002402-009
LIGHT SEAL SHAFT

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

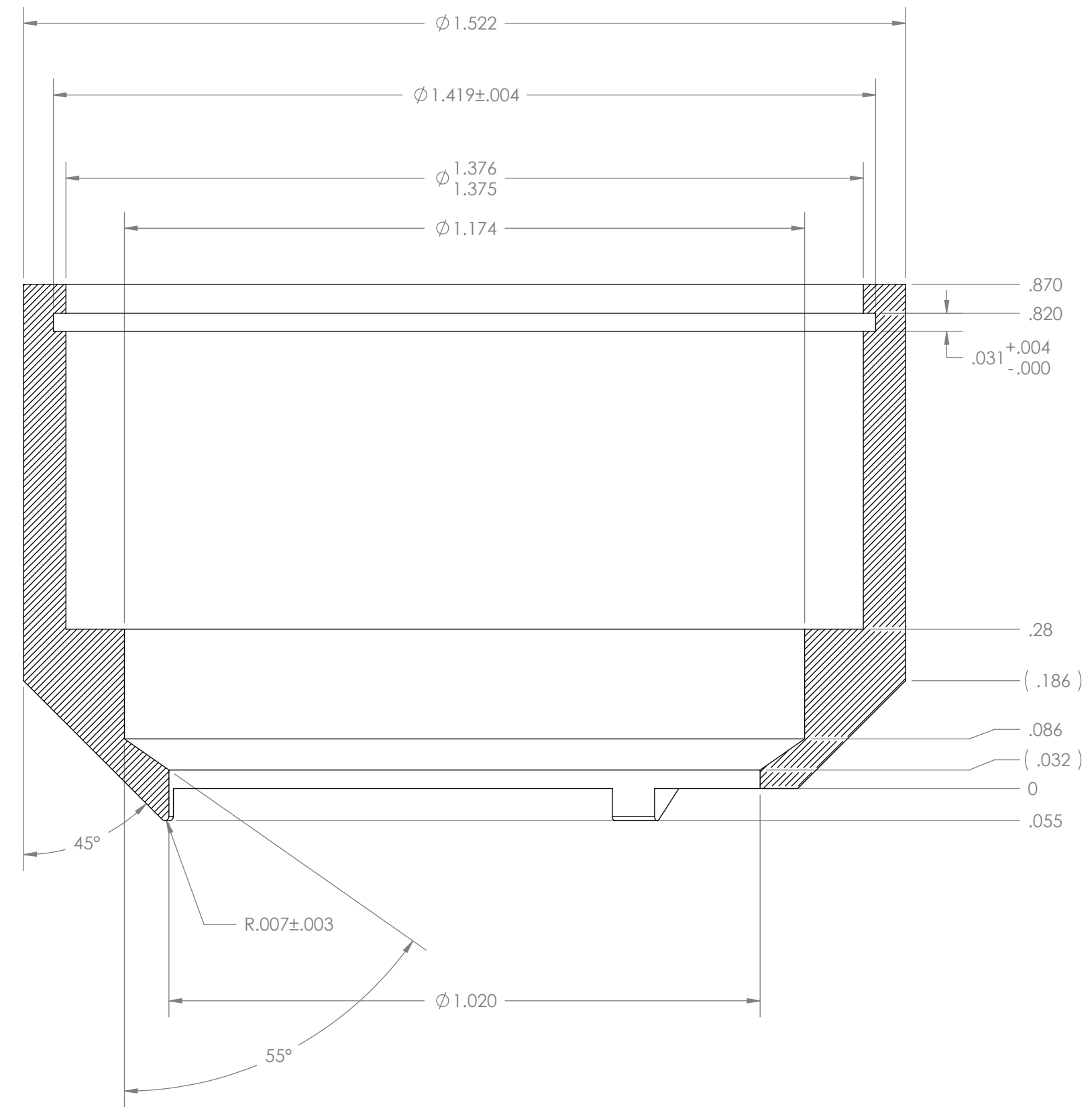
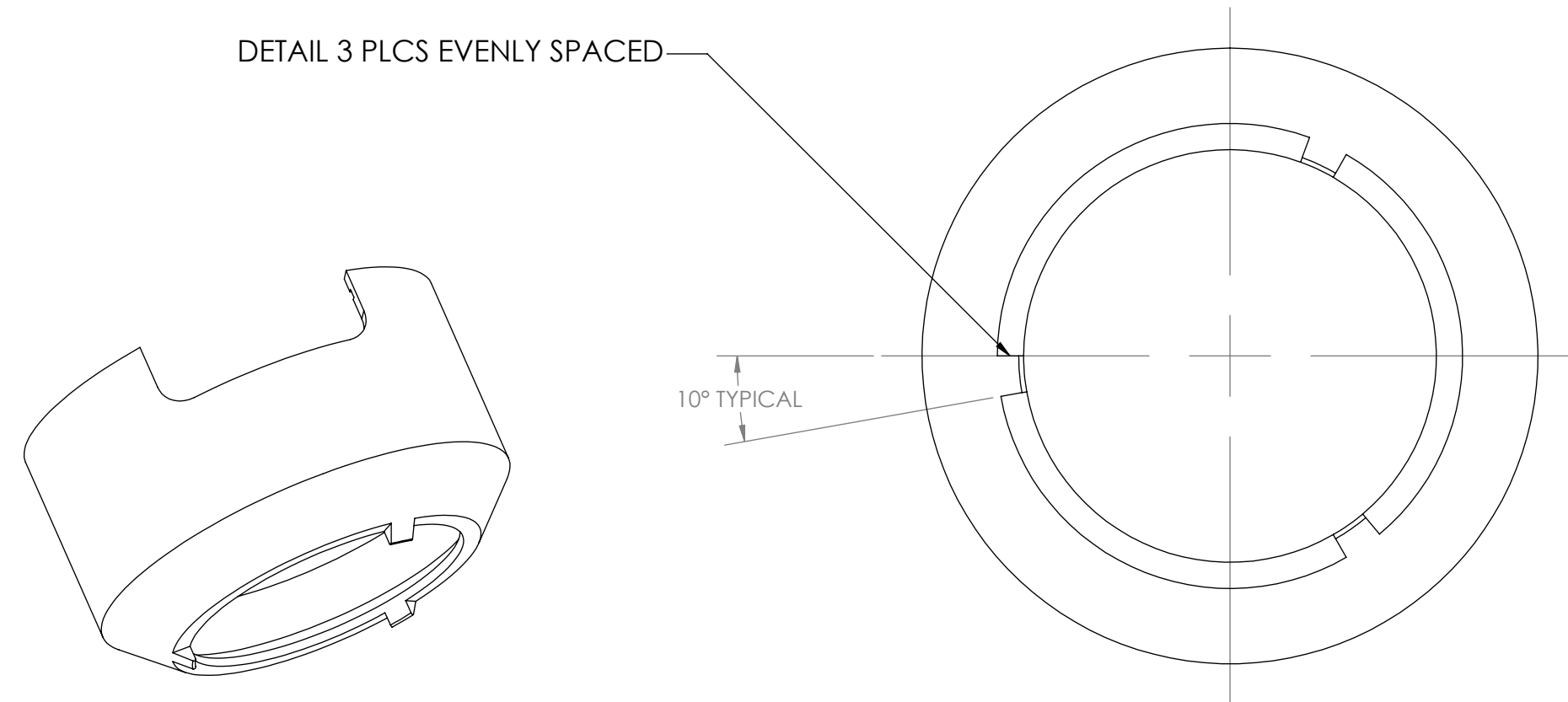
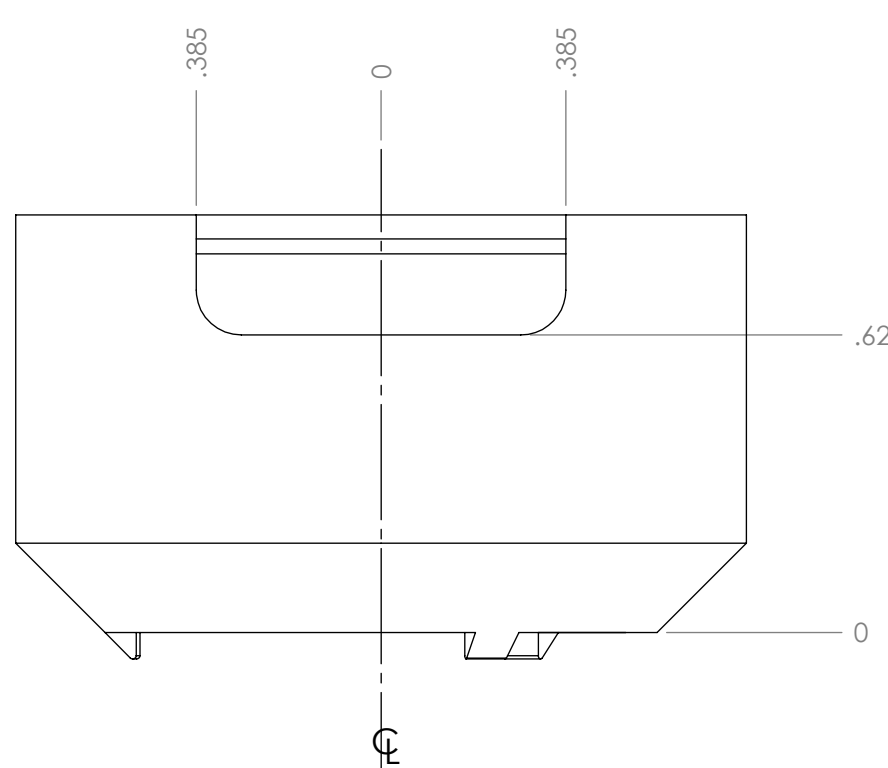
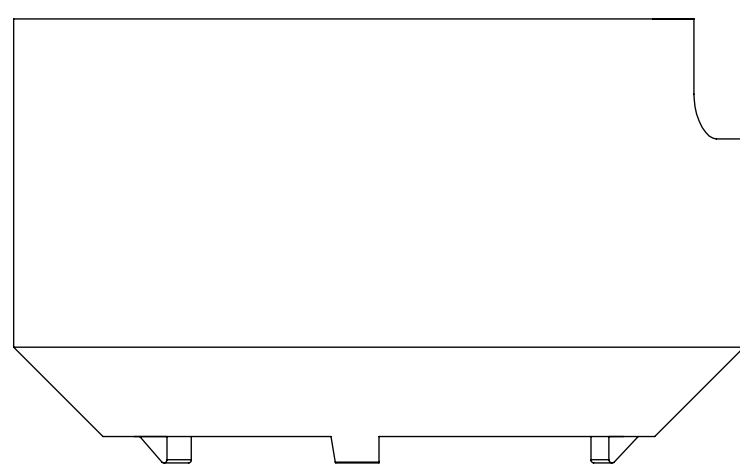
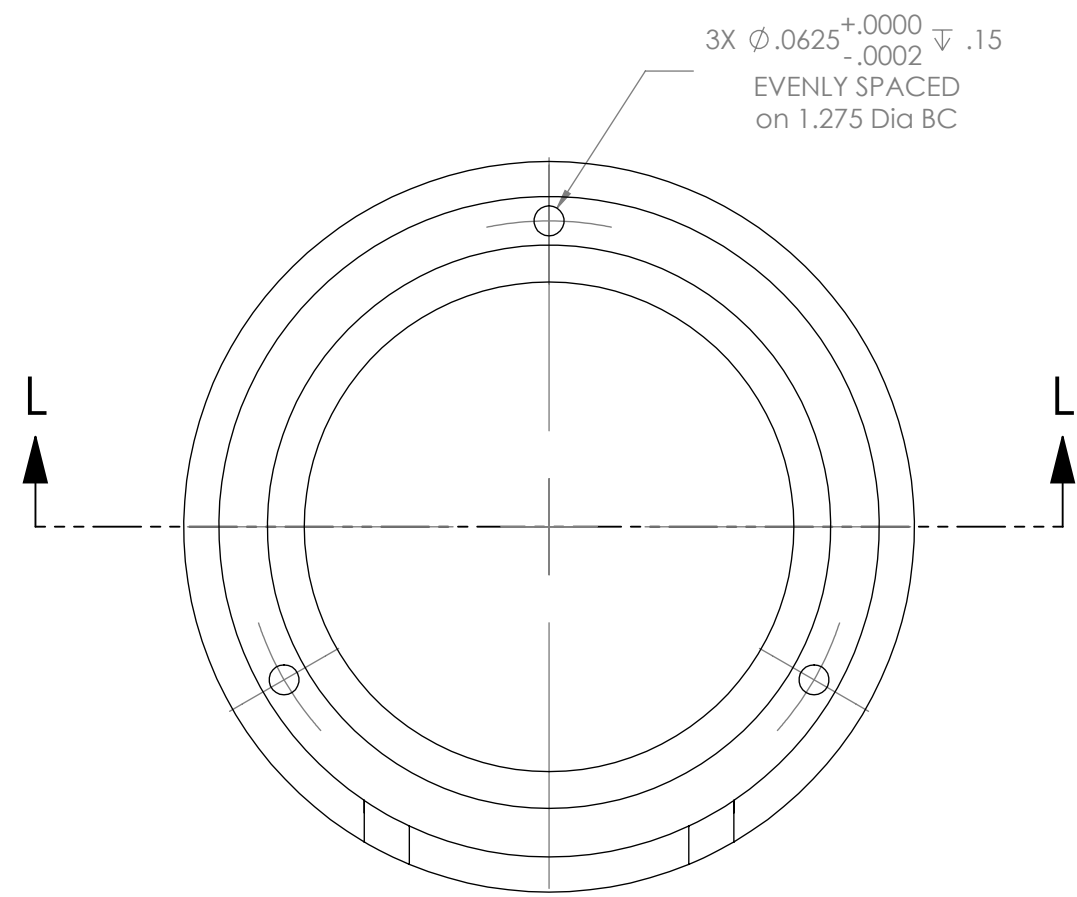


SECTION K-K

ITEM NO.	PART NUMBER	DESCRIPTION	Material	QTY.
1	1002402-009	Light Seal shaft	6061-T6 Aluminum	1
BILL OF MATERIALS				
Shop / Q.C.		last updated on: Thursday, May 29, 2008 11:09:57 AM		
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		
		CAMERA MOUNT & LIGHT SEAL		
		SIZE C	DWG. NO. 1002402	REV. E
CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209) SHEET 8 OF 11				

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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

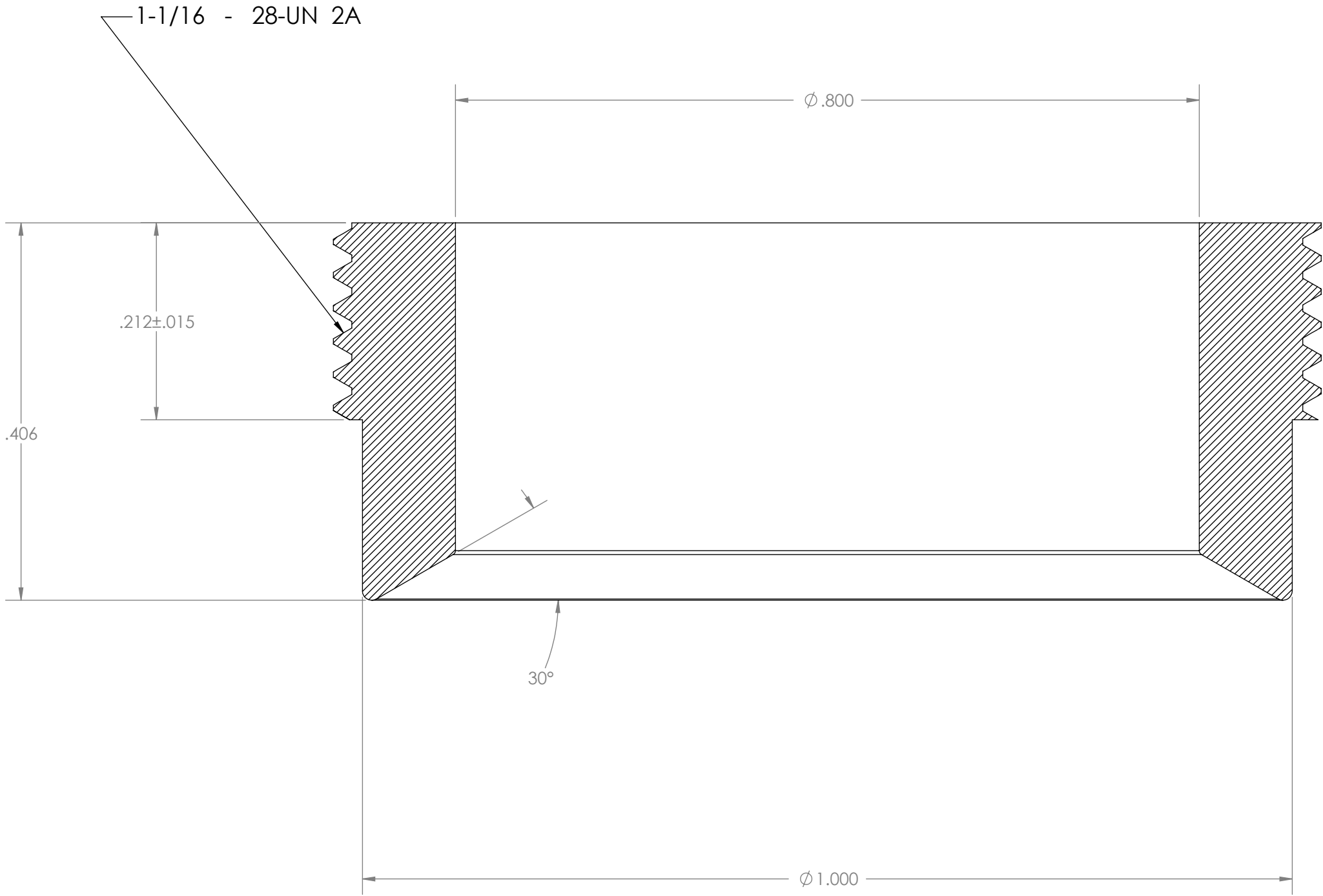
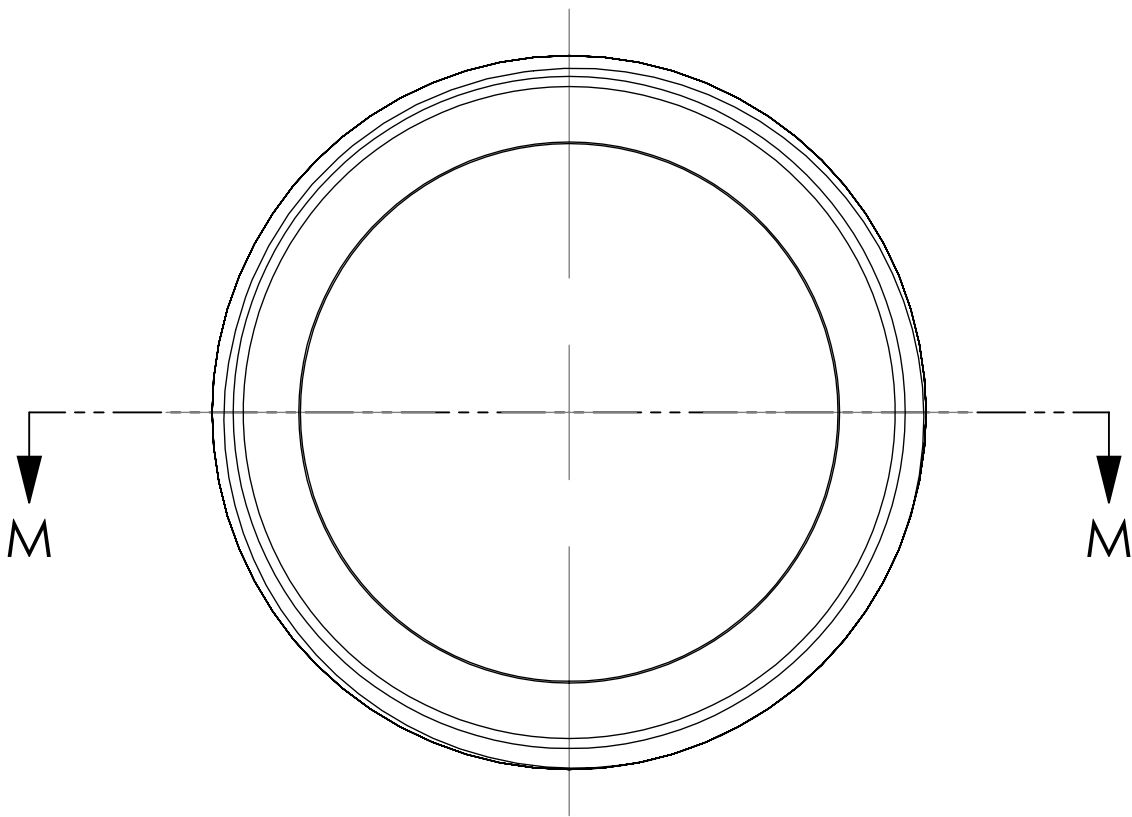
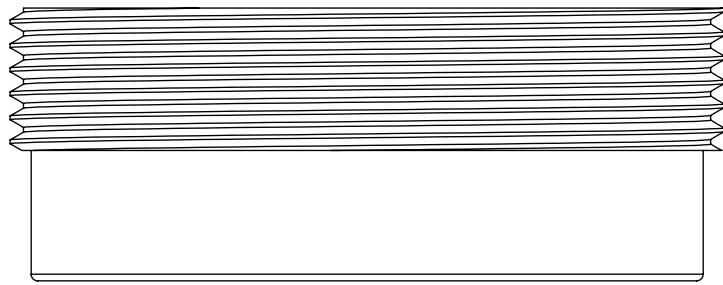
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS	DATE
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.01	ENGINEER Jason Feldman 831-775-1837	
Shop Foreman		3 PLACE DIM ±.005	ANGLES ±1°	CHECKED	
Engineer		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING 3. REMOVE BURRS & 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			
NEXT ASSY Description	NEXT ASSY Number	PROJECT NUMBER 701312.00	PROJECT ESP 2G	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 9 OF 11
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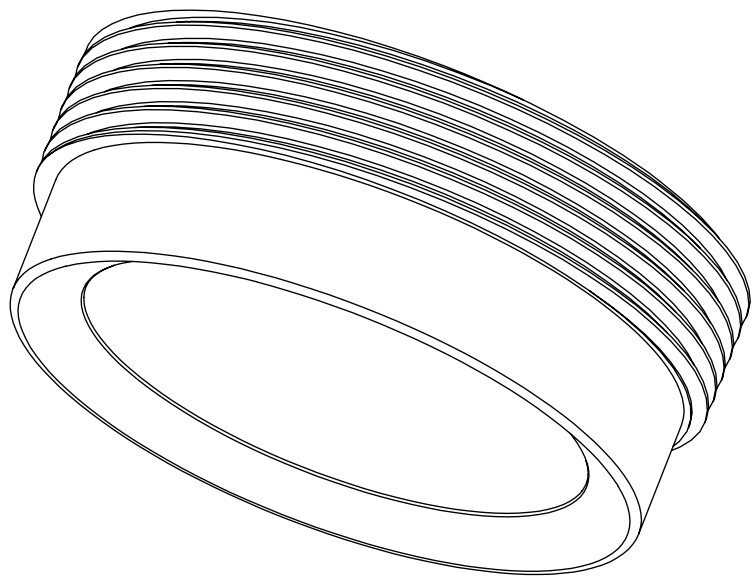
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1002402-011
LIGHT SEAL

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
D4	F	Changed direction of chamfer	05/08	MP



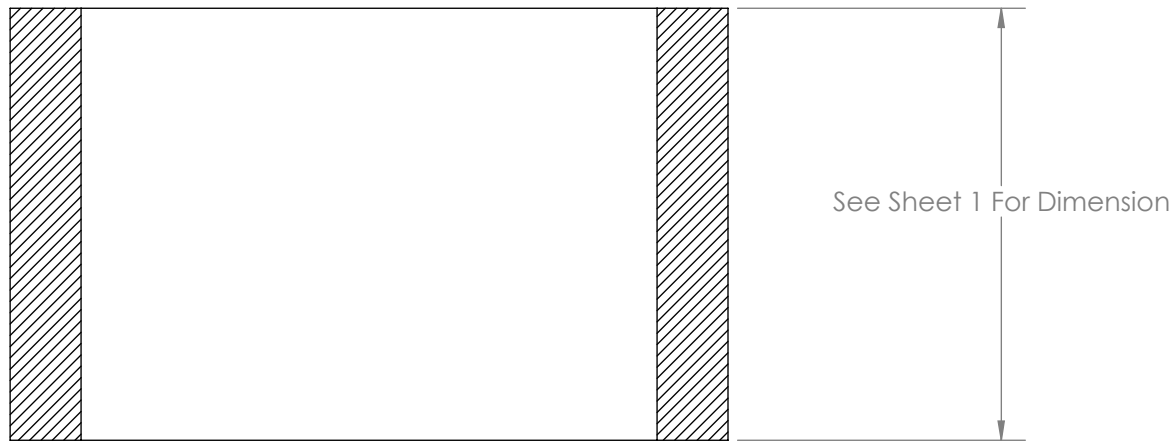
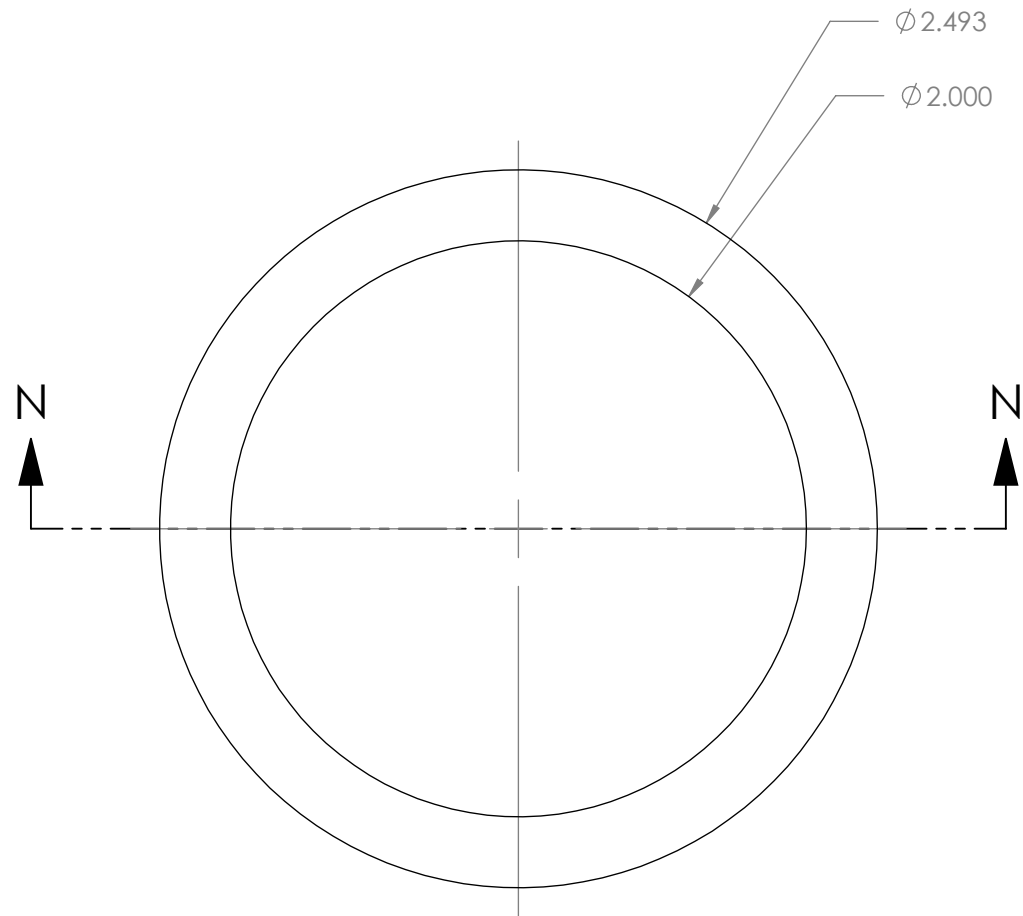
SECTION M-M
SCALE 7.5 : 1



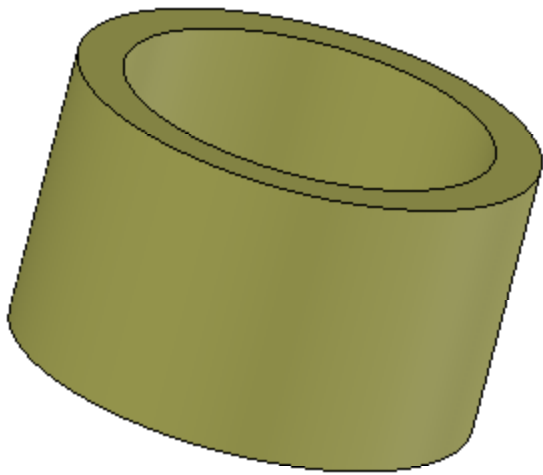
ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
11	1002402-011	Light Seal	Torlon 4301	1
BILL OF MATERIALS				
Shop / Q.C.		last updated on: Thursday, May 29, 2008 11:09:57 AM		
Inspector		APPROVALS DATE		
Shop Foreman		ENGINEER Jason Feldman 831-775-1837		
Engineer		CHECKED		
NEXT ASSY Description	NEXT ASSY Number	PROJECT NUMBER 701312.00		
DO NOT SCALE DRAWING		PROJECT ESP 2G		
		CAMERA MOUNT & LIGHT SEAL		
		SIZE C	DWG. NO. 1002402	REV. F
CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209) SHEET 10 OF 11				

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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: Thursday, May 29, 2008 11:09:57 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°	Monterey Bay Aquarium Research Institute M B A R I 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. 7. SURFACE FINISH TO BE 63 MICRON UNLESS OTHERWISE SPECIFIED				
DO NOT SCALE DRAWING		PROJECT NUMBER 701312.00		CAMERA MOUNT & LIGHT SEAL		
		PROJECT ESP 2G		SIZE C		DWG. NO. 1002402
		CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209)		REV. E		
		SHEET 11 OF 11				