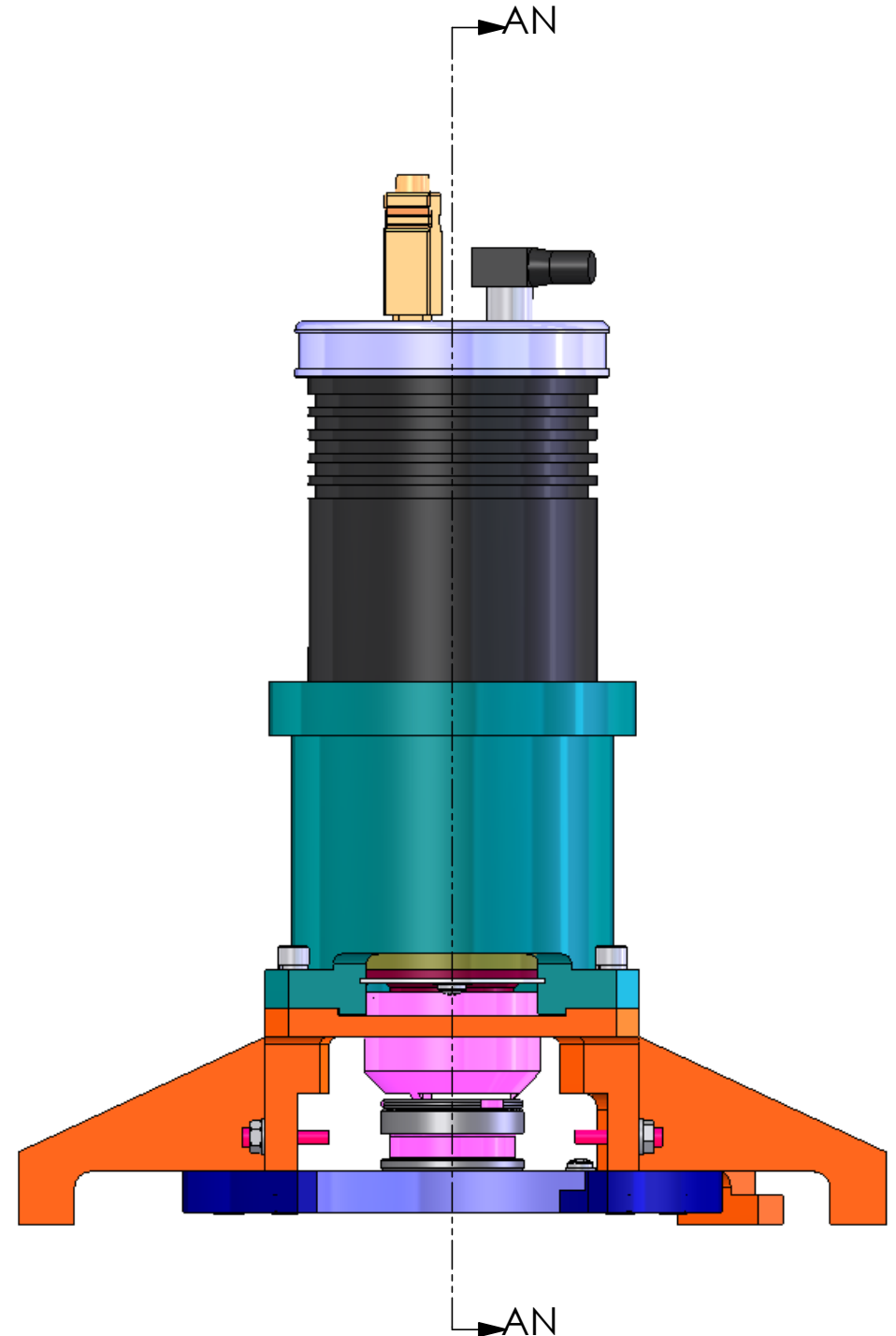
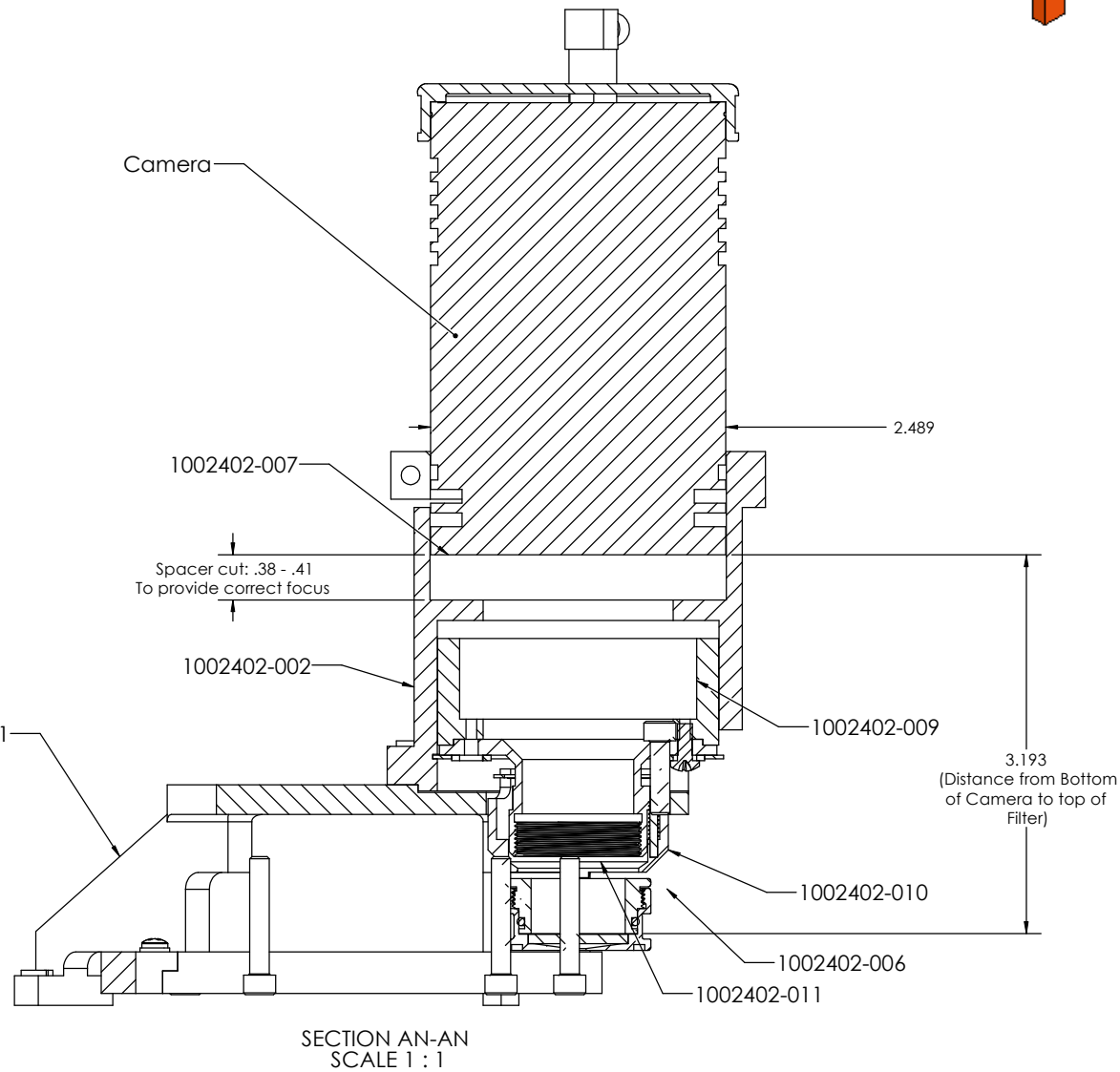
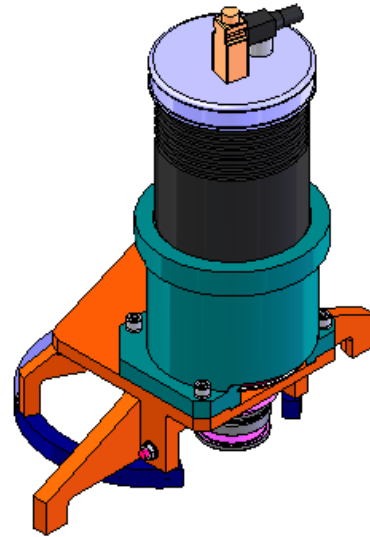


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1002402 Camera Mount and Seal

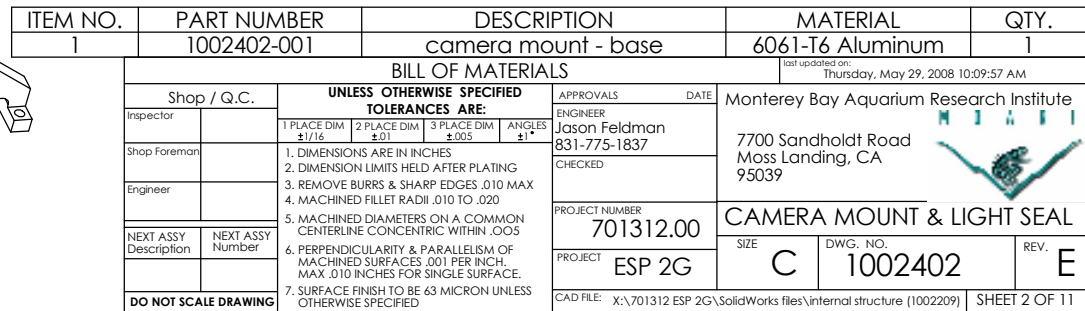


BILL OF MATERIALS						last updated on: Thursday, May 29, 2008 10:09:57 AM			
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE	
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.01	3 PLACE DIM ±.005	ANGLES ±1°	ENGINEER Jason Feldman 831-775-1837	Monterey Bay Aquarium Research Institute 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	CAMERA MOUNT & LIGHT SEAL		
NEXT ASSY Description	NEXT ASSY Number					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 1 OF 11			



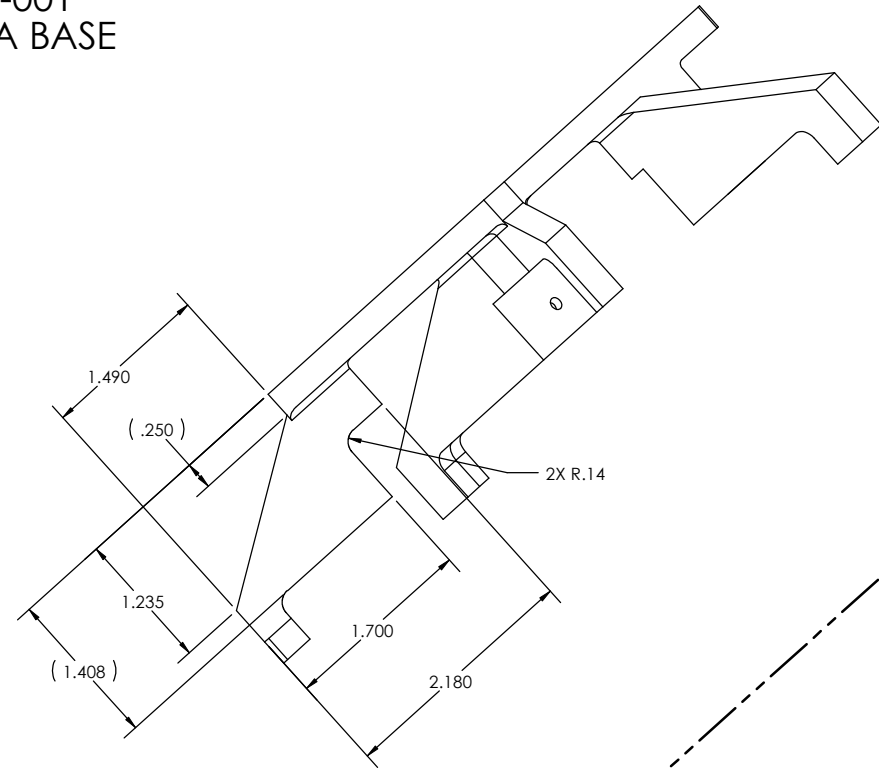
7700 Sandholdt Road
Moss Landing, CA
95039

1002402-001
CAMERA BASE

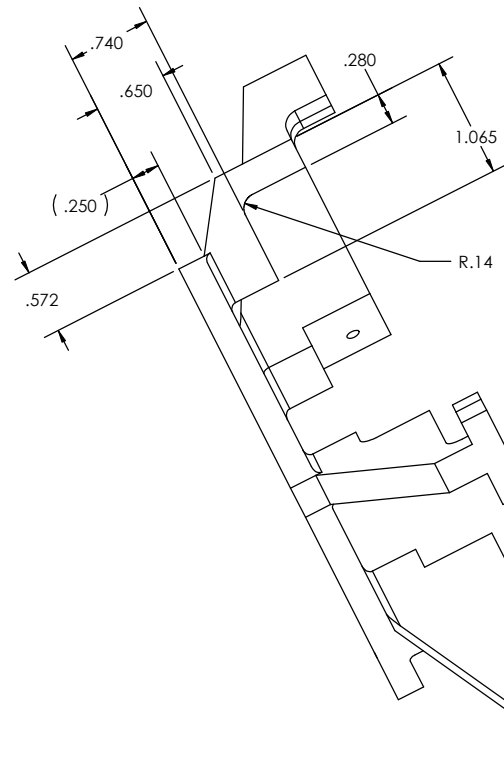


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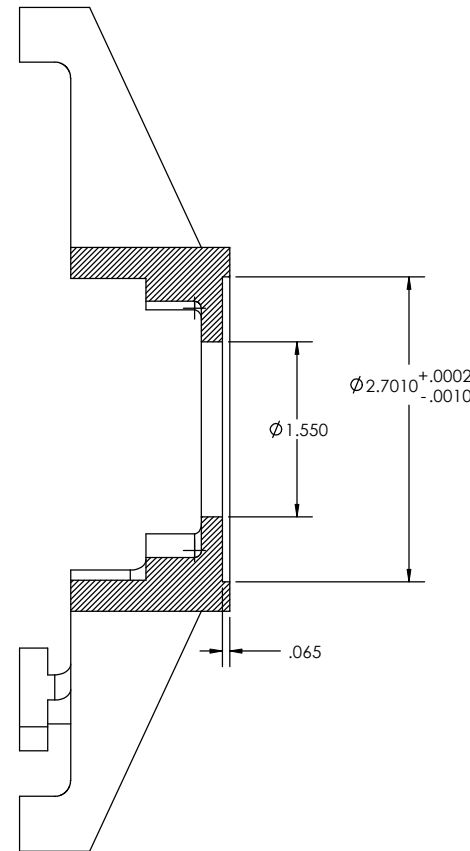
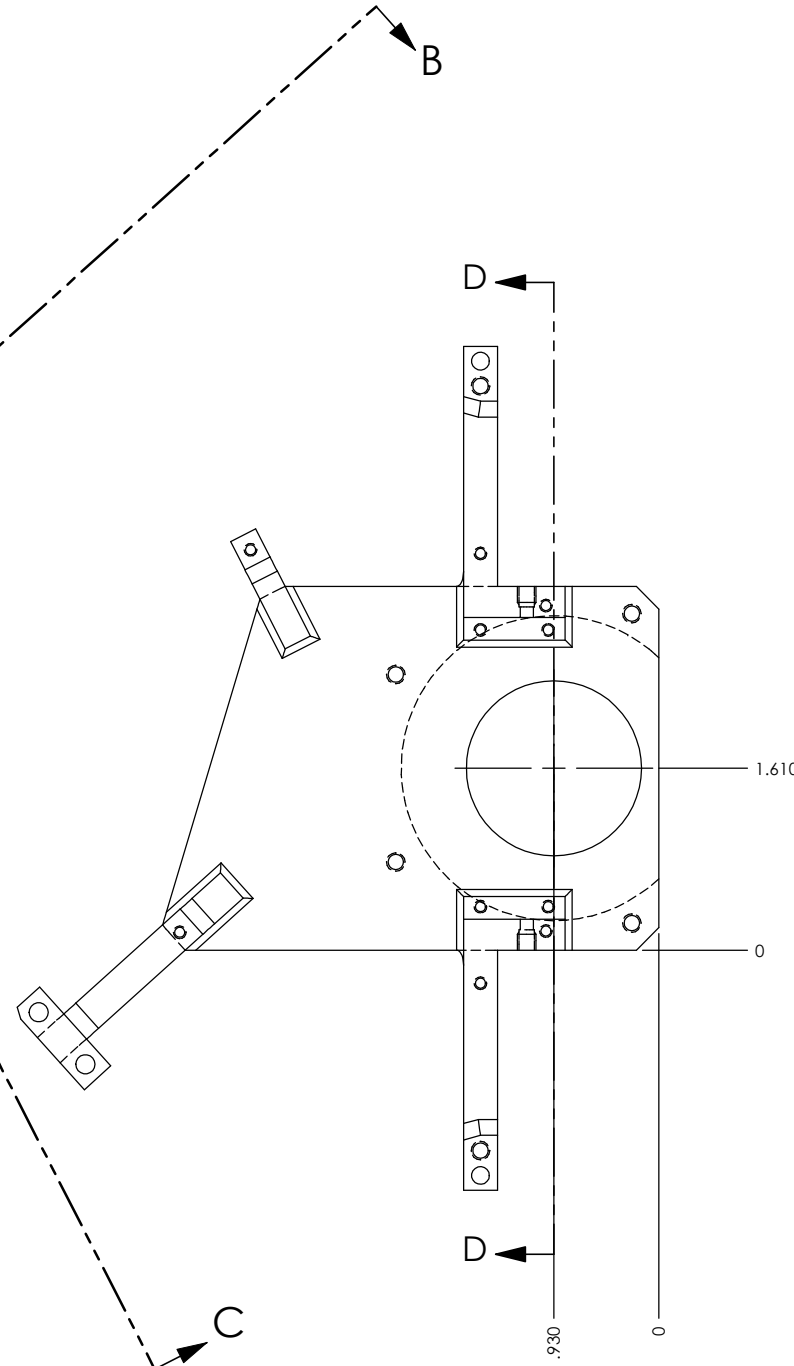
1002402-001 CAMERA BASE



VIEW B-B



VIEW C-C

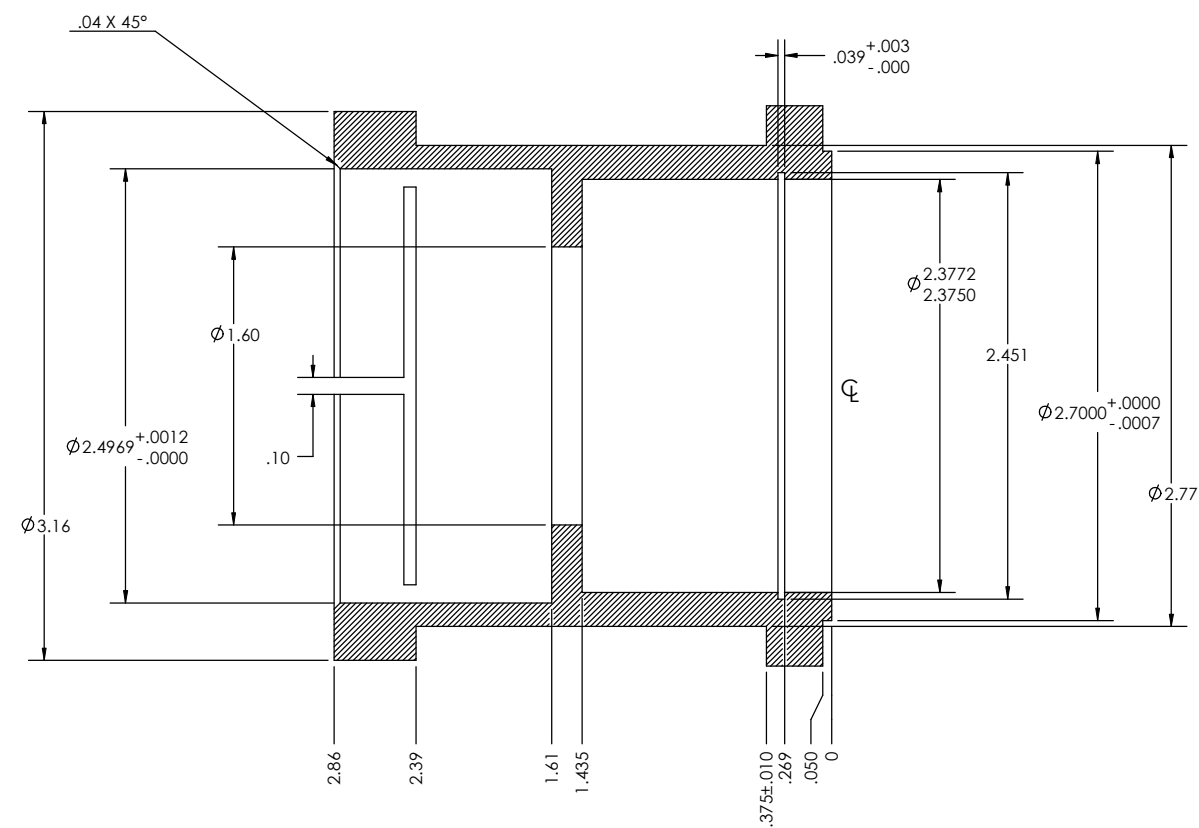
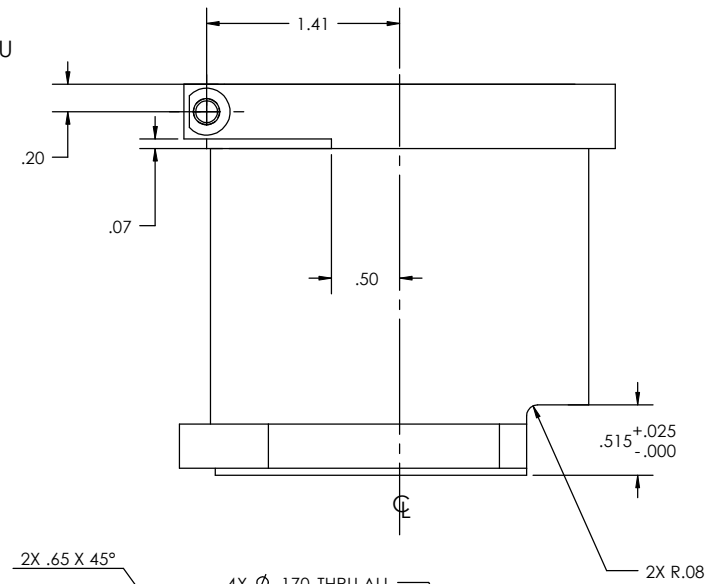
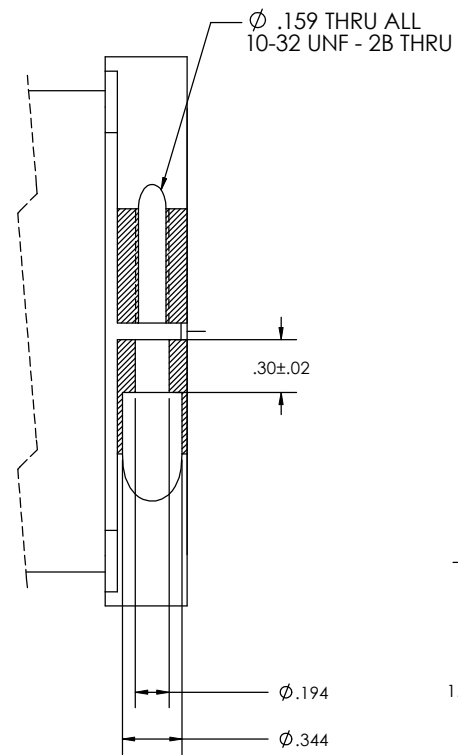
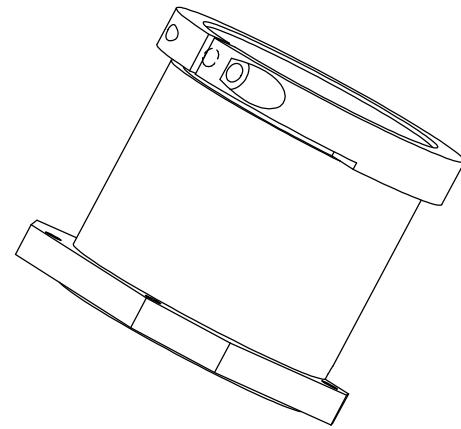
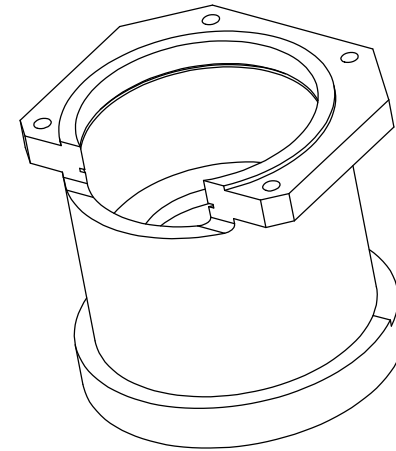
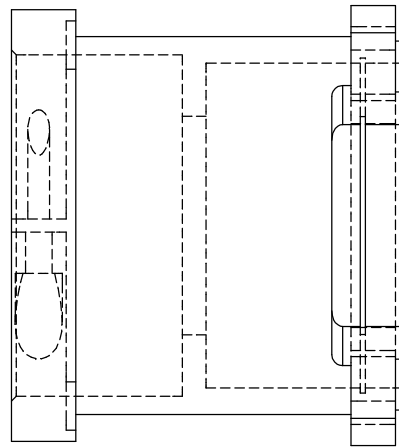
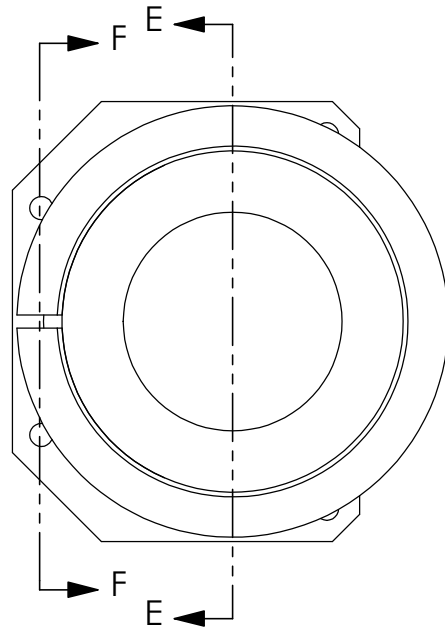
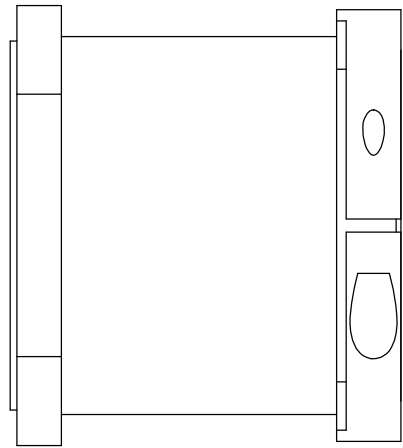


SECTION D-D

BILL OF MATERIALS						last updated on: Thursday, May 29, 2008 10:09:57 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 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	CAMERA MOUNT & LIGHT SEAL		
NEXT ASSY Description	NEXT ASSY Number					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	

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1002402-002 CAMERA CLAMP



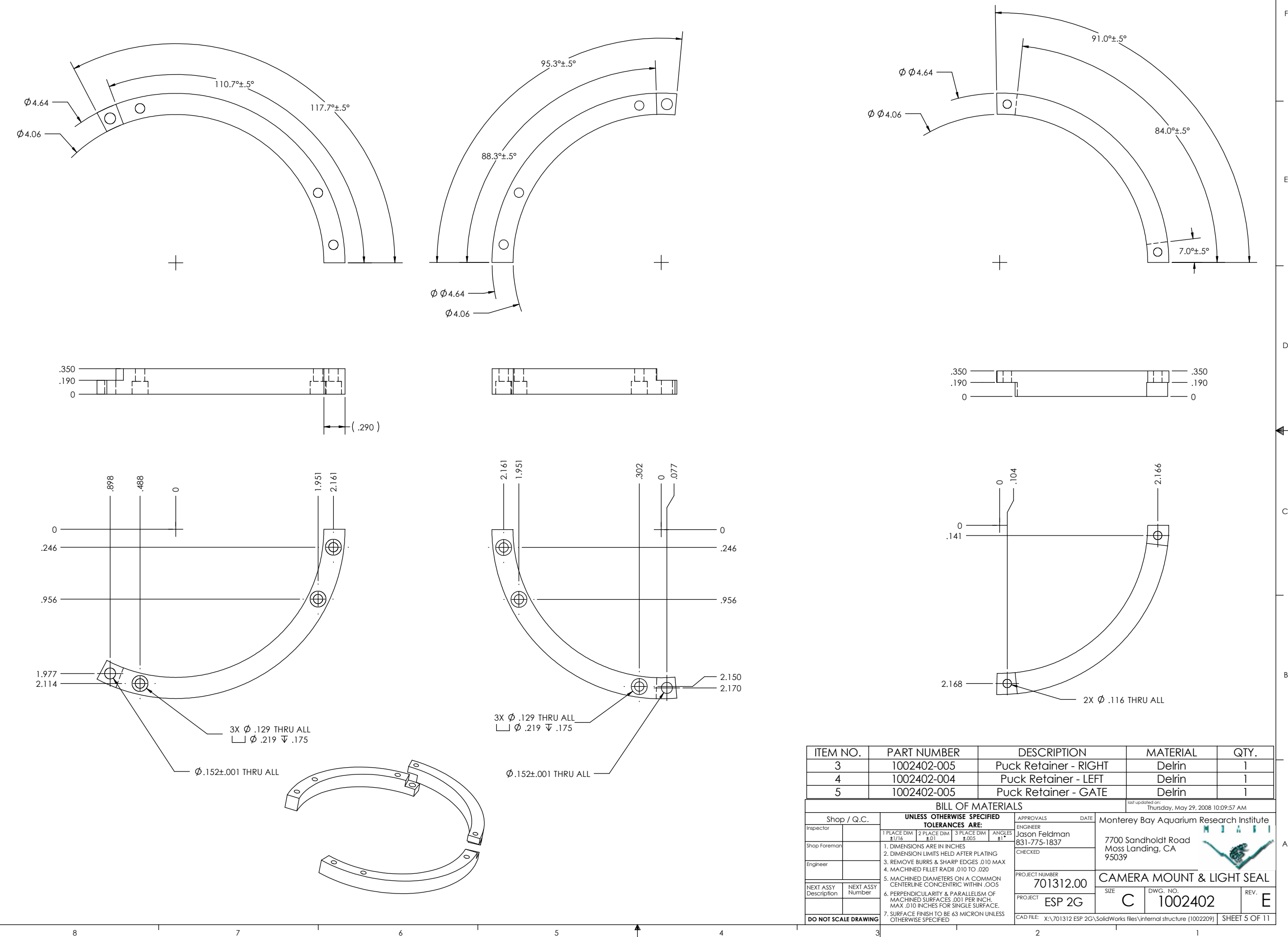
SECTION F-F

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.		APPROVALS DATE		
Inspector		ENGINEER Jason Feldman 831-775-1837		
Shop Foreman		CHECKED		
Engineer		PROJECT NUMBER 701312.00		
NEXT ASSY Description	NEXT ASSY Number	PROJECT ESP 2G		
DO NOT SCALE DRAWING		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

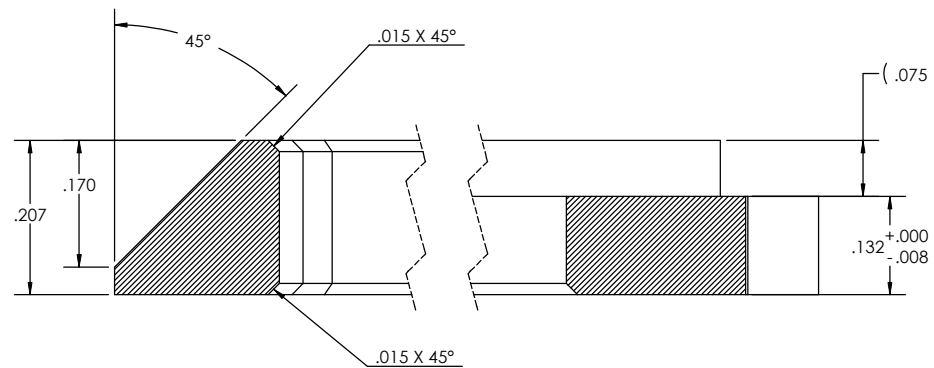
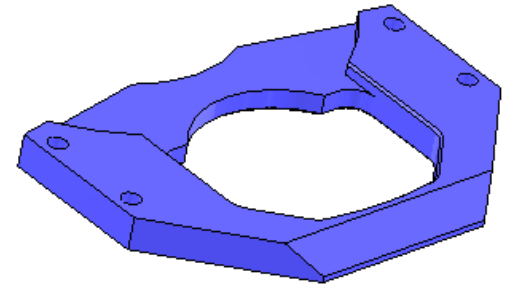
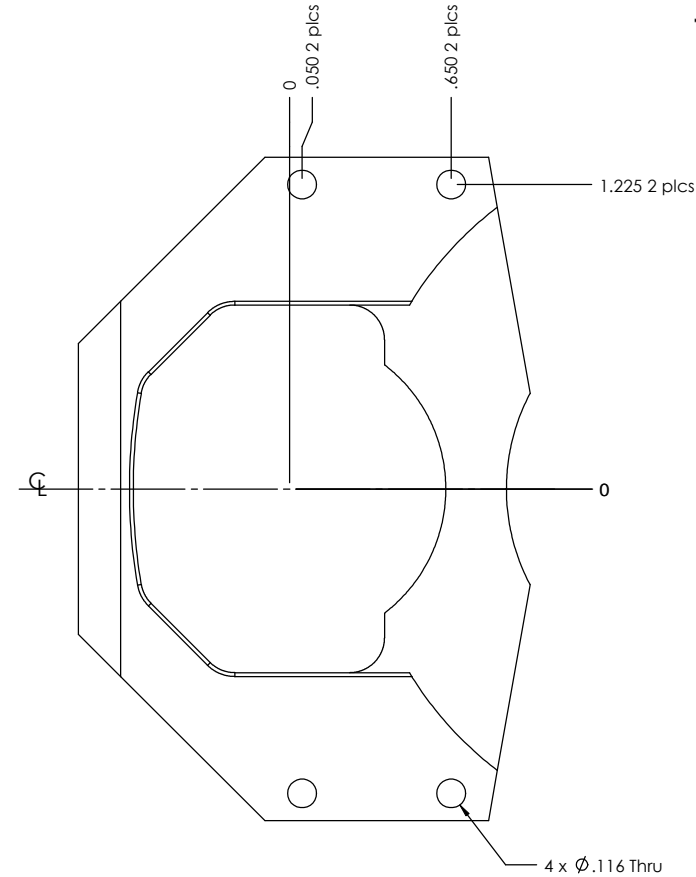
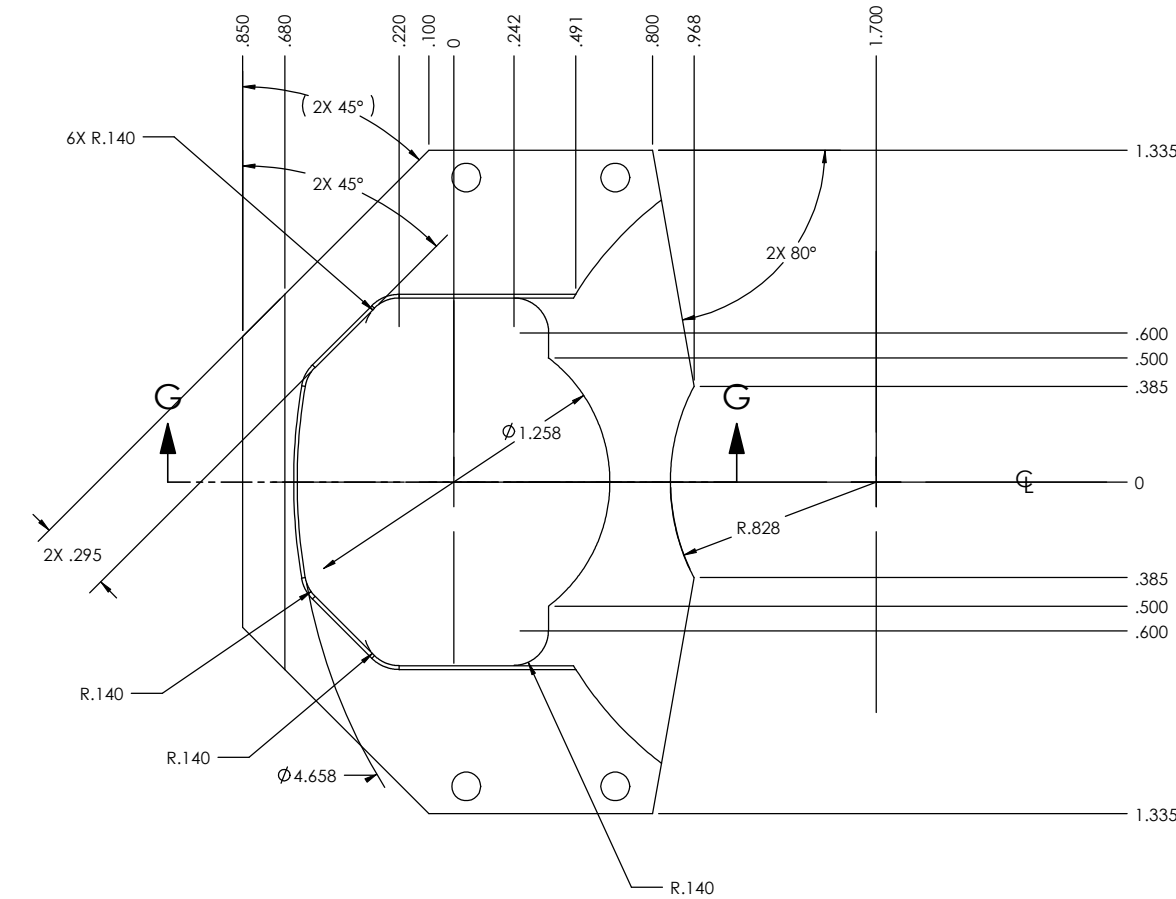


ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
3	1002402-005	Puck Retainer - RIGHT	Delrin	1
4	1002402-004	Puck Retainer - LEFT	Delrin	1
5	1002402-005	Puck Retainer - GATE	Delrin	1

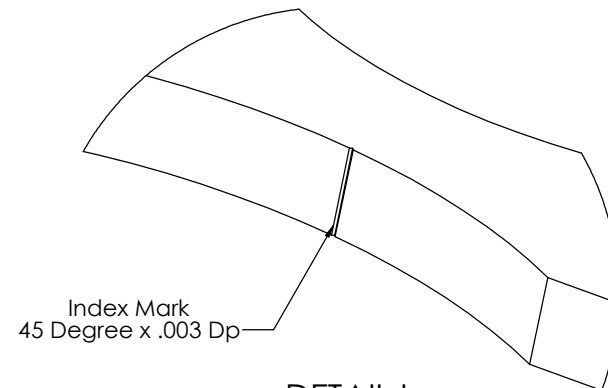
BILL OF MATERIALS				last updated on: Thursday, May 29, 2008 10:09:57 AM	
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE	
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.01	ENGINEER Jason Feldman 831-775-1837	Monterey Bay Aquarium Research Institute 7700 Sandholdt Road Moss Landing, CA 95039
Shop Foreman		3 PLACE DIM ±.005	ANGLES ±1°	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	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 ESP 2G	
DO NOT SCALE DRAWING		CAD FILE: X:\701312 ESP 2G\SolidWorks files\Internal structure (1002209)		SIZE C	DWG. NO. 1002402
				REV. E	SHEET 5 OF 11

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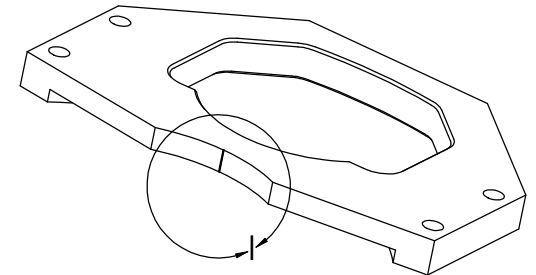
1002402-006 CAMERA - PUCK GUIDE



SECTION G-G
SCALE 6 : 1



DETAIL I

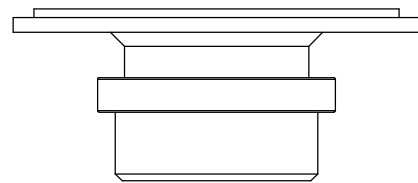
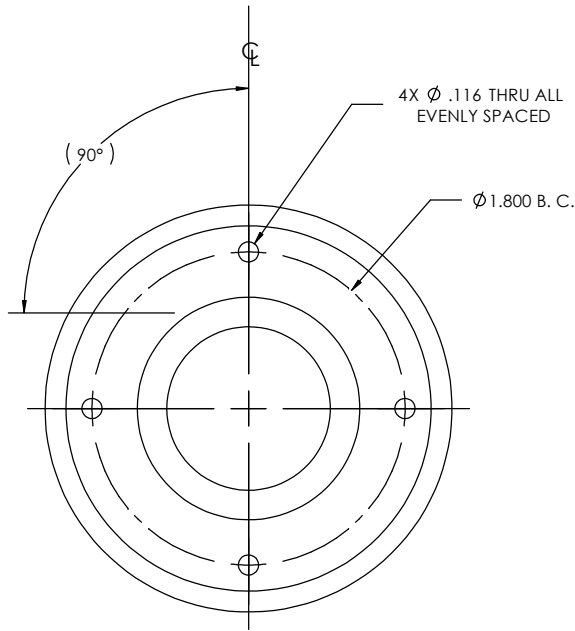


ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
6	1002402-006	Puck Guide	Delrin	1

BILL OF MATERIALS										last updated on: Thursday, May 29, 2008 10:09:57 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				CHECKED					
Engineer		5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005				PROJECT NUMBER 701312.00		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.		PROJECT ESP 2G		SIZE C	DWG. NO. 1002402	REV. E	
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)		SHEET 6 OF 11			

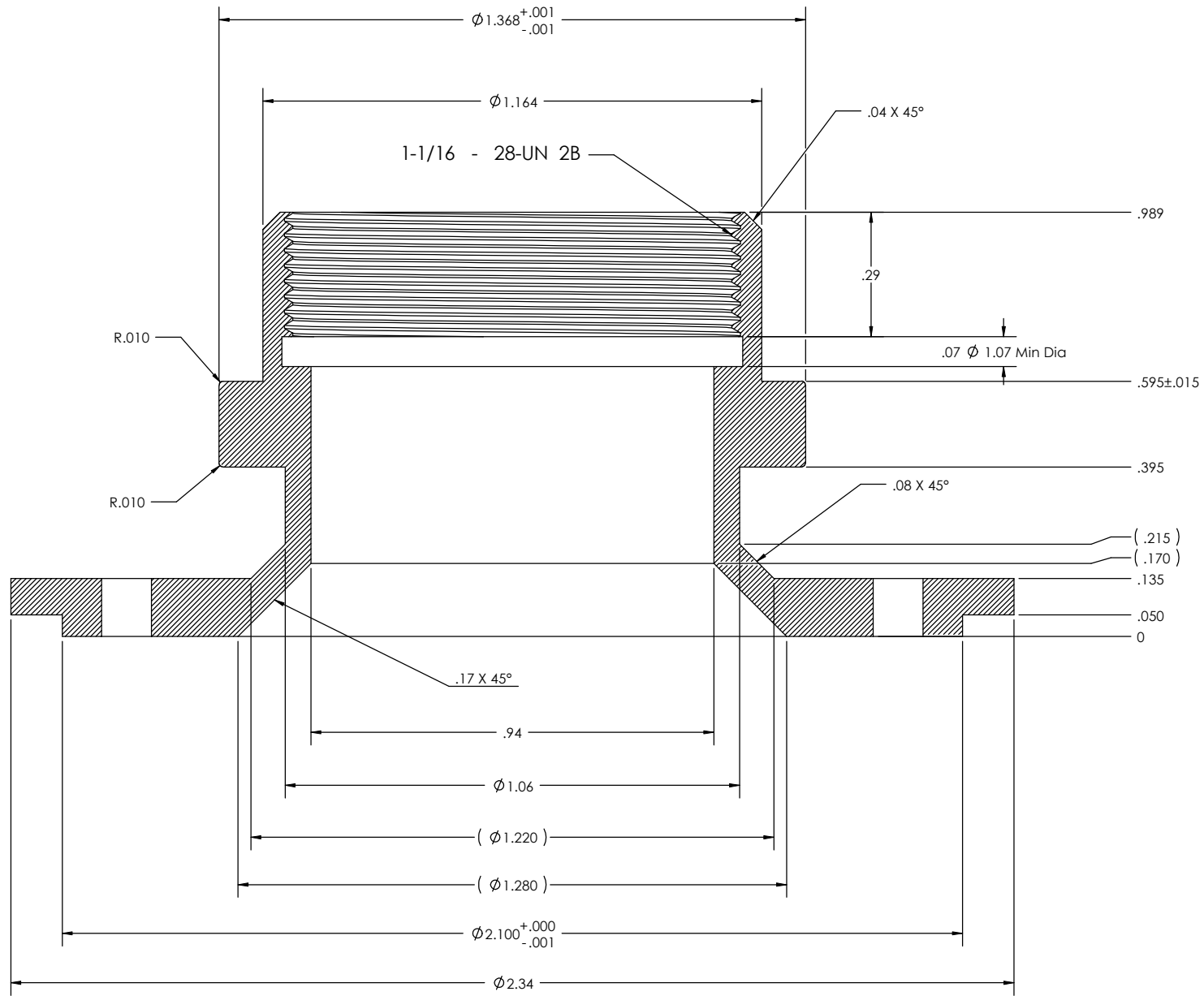
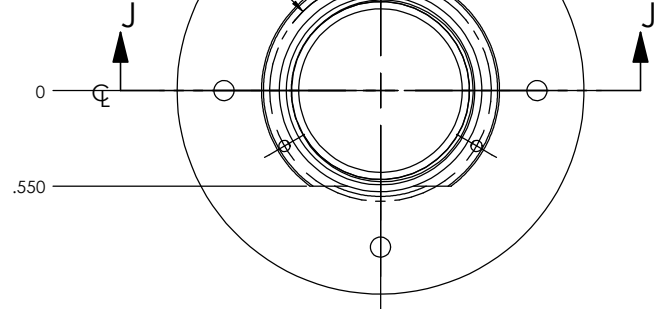
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1002402-008 LIGHT SEAL FLANGE



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.
8	1002402-008	Light Seal Flange	6061-T6 Aluminum	1
BILL OF MATERIALS				
Shop / Q.C.		APPROVALS DATE		
Inspector		ENGINEER Jason Feldman 831-775-1837		
Shop Foreman		CHECKED		
Engineer		PROJECT NUMBER 701312.00		
NEXT ASSY Description	NEXT ASSY Number	PROJECT ESP 2G		
DO NOT SCALE DRAWING		CAD FILE: X:\701312 ESP 2G\SolidWorks files\Internal structure (1002209) SHEET 7 OF 11		

last updated on: Thursday, May 29, 2008 10:09:57 AM

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

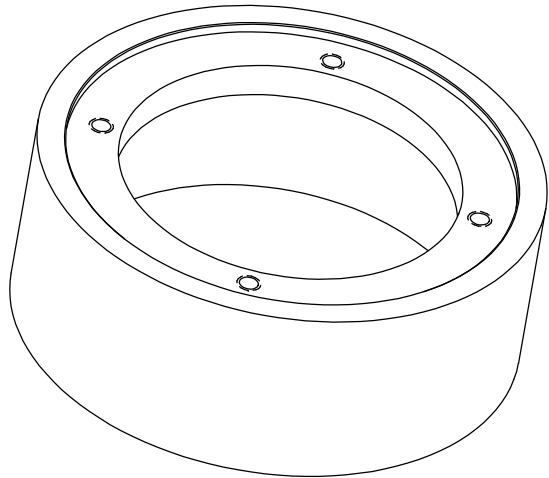
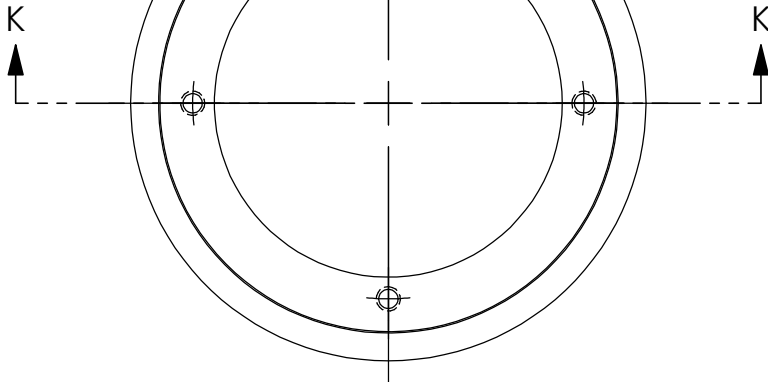


CAMERA MOUNT & LIGHT SEAL
SIZE C DWG. NO. 1002402 REV. E

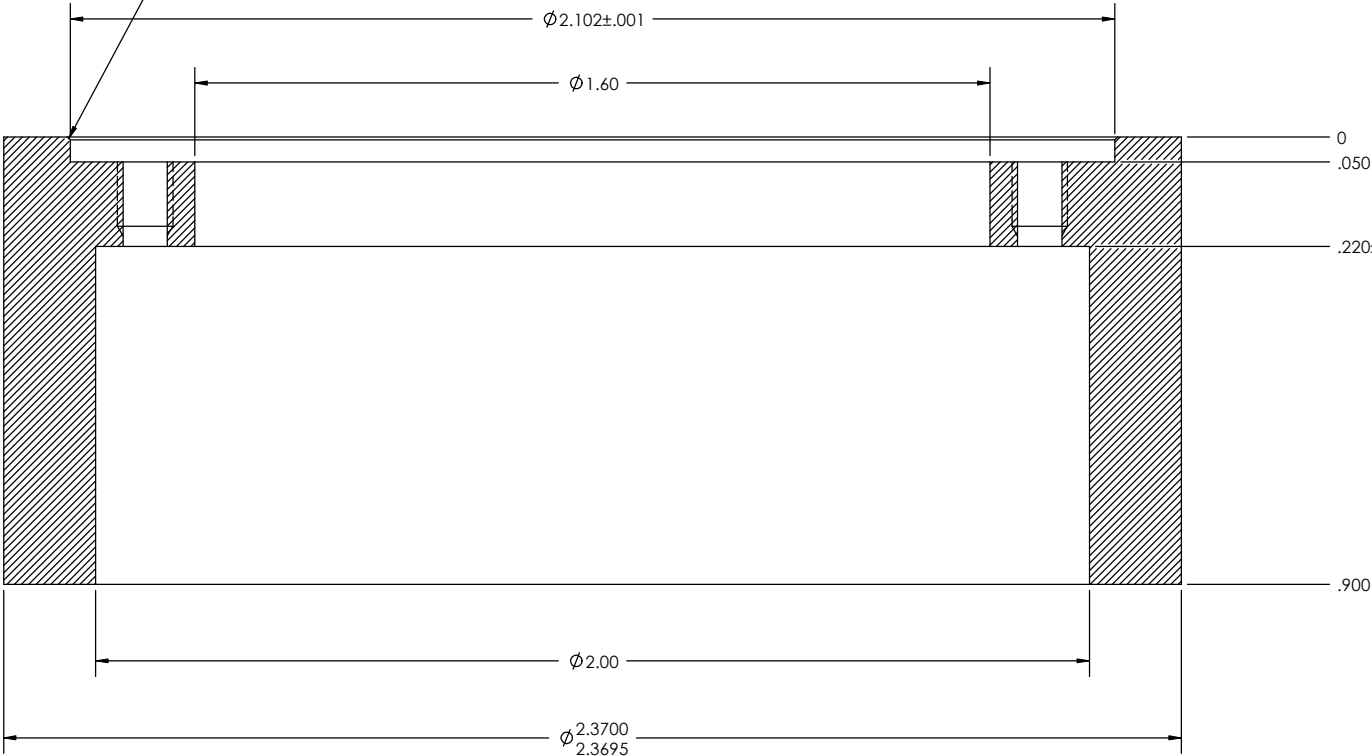
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1002402-009
LIGHT SEAL SHAFT

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



.006 X 45°
SLIGHT CHAMFER

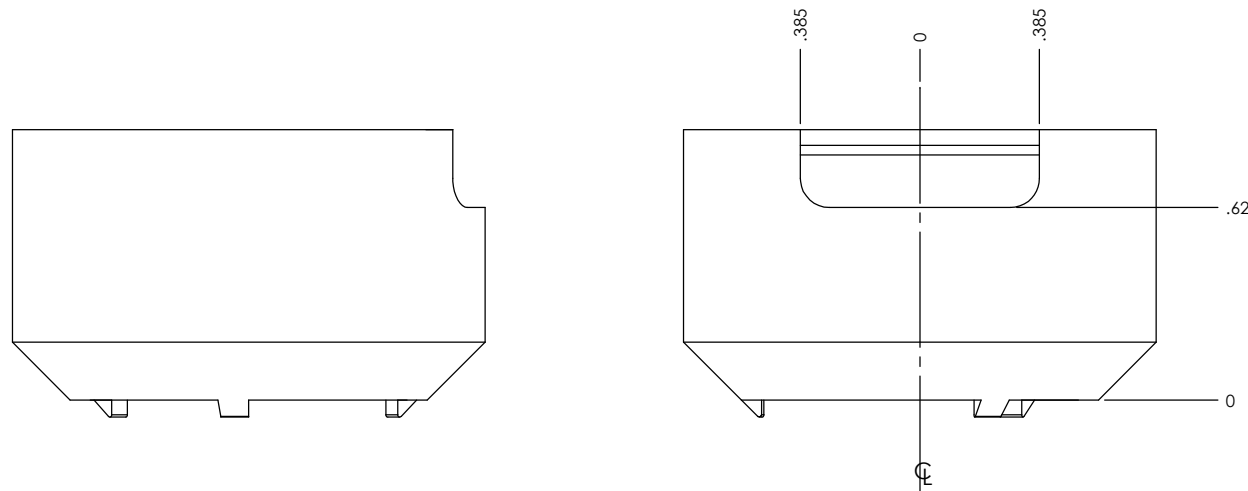
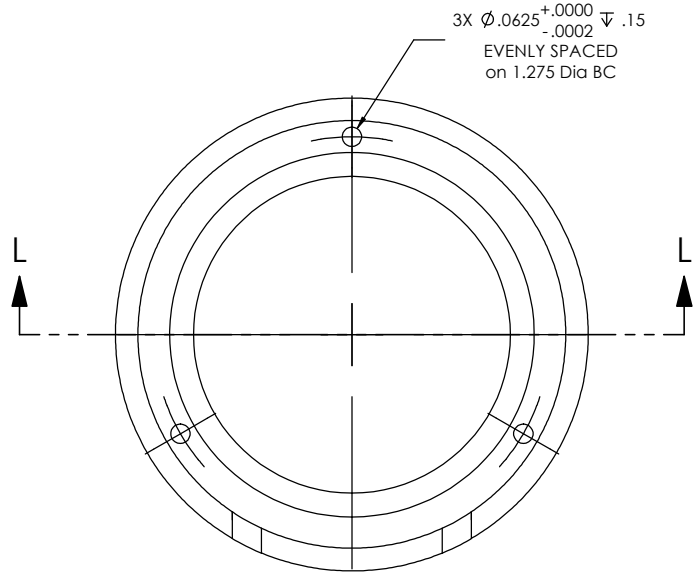


SECTION K-K

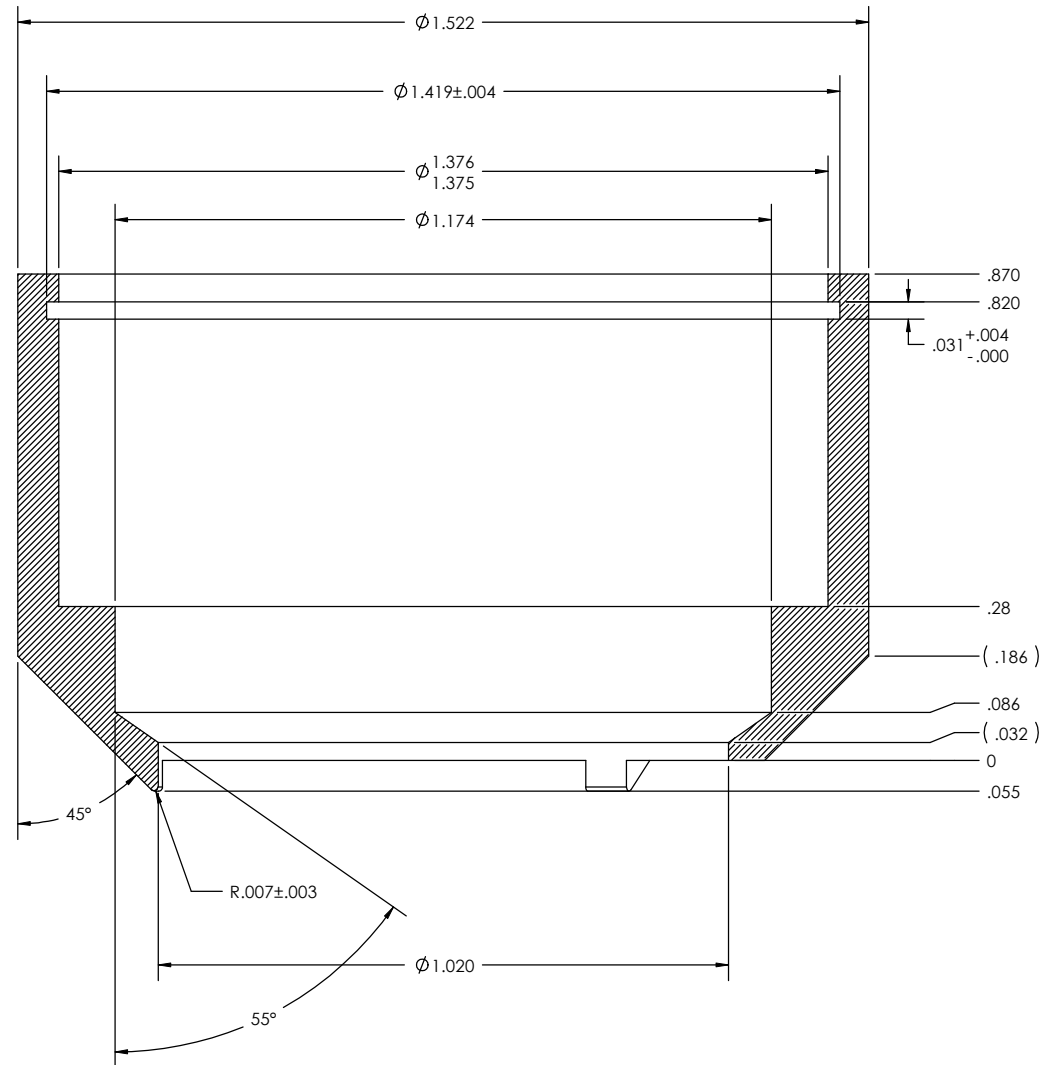
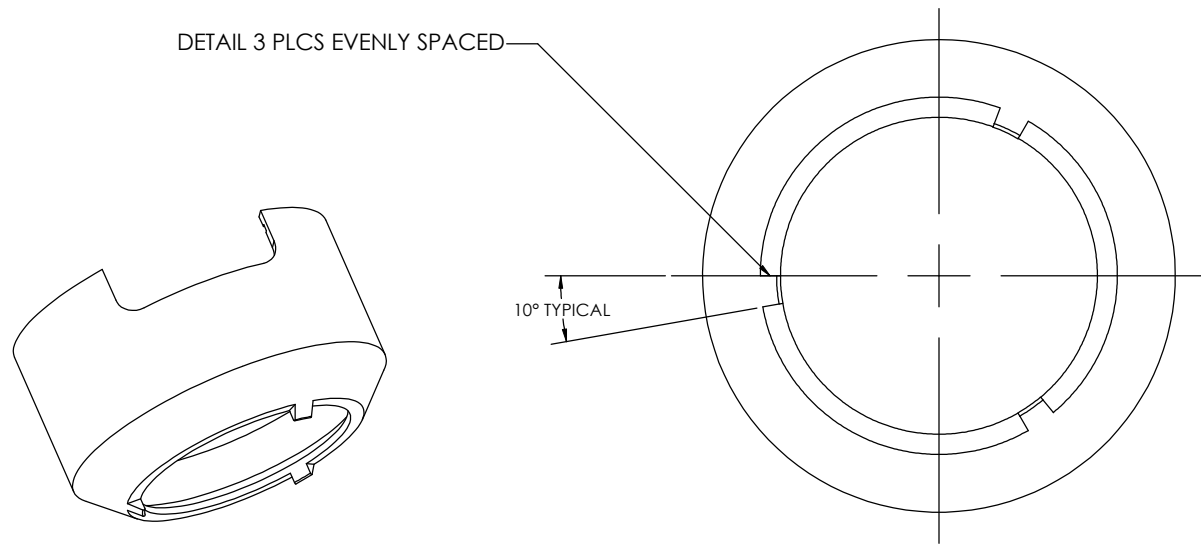
ITEM NO.	PART NUMBER	DESCRIPTION	Material	QTY.
1	1002402-009	Light Seal shaft	6061-T6 Aluminum	1
BILL OF MATERIALS				
Last updated on: Thursday, May 29, 2008 10:09:57 AM				
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.01	3 PLACE DIM ±.005
Shop Foreman		4 ANGLES ±1°	APPROVALS DATE	
Engineer		1. DIMENSIONS ARE IN INCHES	ENGINEER Jason Feldman	Monterey Bay Aquarium Research Institute 7700 Sandholdt Road Moss Landing, CA 95039
		2. DIMENSION LIMITS HELD AFTER PLATING	831-775-1837	
		3. REMOVE BURRS & SHARP EDGES .010 MAX	CHECKED	CAMERA MOUNT & LIGHT SEAL
		4. MACHINED FILLET RADII .010 TO .020	PROJECT NUMBER 701312.00	
NEXT ASSY Description	NEXT ASSY Number	5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005	PROJECT ESP 2G	SIZE C
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .001 PER INCH MAX .010 INCHES FOR SINGLE SURFACE.	DWG. NO. 1002402	REV. E
		7. SURFACE FINISH TO BE 63 MICRON UNLESS OTHERWISE SPECIFIED	CAD FILE: X:\701312 ESP 2G\SolidWorks files\Internal structure (1002209)	SHEET 8 OF 11
DO NOT SCALE DRAWING				

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1002402-010 PUCK RELEASE



DETAIL 3 PLCS EVENLY SPACED



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				
Shop / Q.C.		APPROVALS DATE		
Inspector		ENGINEER Jason Feldman 831-775-1837		
Shop Foreman		CHECKED		
Engineer		PROJECT NUMBER 701312.00		
NEXT ASSY Description	NEXT ASSY Number	PROJECT ESP 2G		
DO NOT SCALE DRAWING		CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209) SHEET 9 OF 11		

1 PLACE DIM ±1/16

2 PLACE DIM ±.01

3 PLACE DIM ±.005

ANGLES ±1°

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:

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

Monterey Bay Aquarium Research Institute

7700 Sandholdt Road Moss Landing, CA 95039

7700 Sandholdt Road Moss Landing, CA 95039

CAMERA MOUNT & LIGHT SEAL

SIZE C

DWG. NO. 1002402

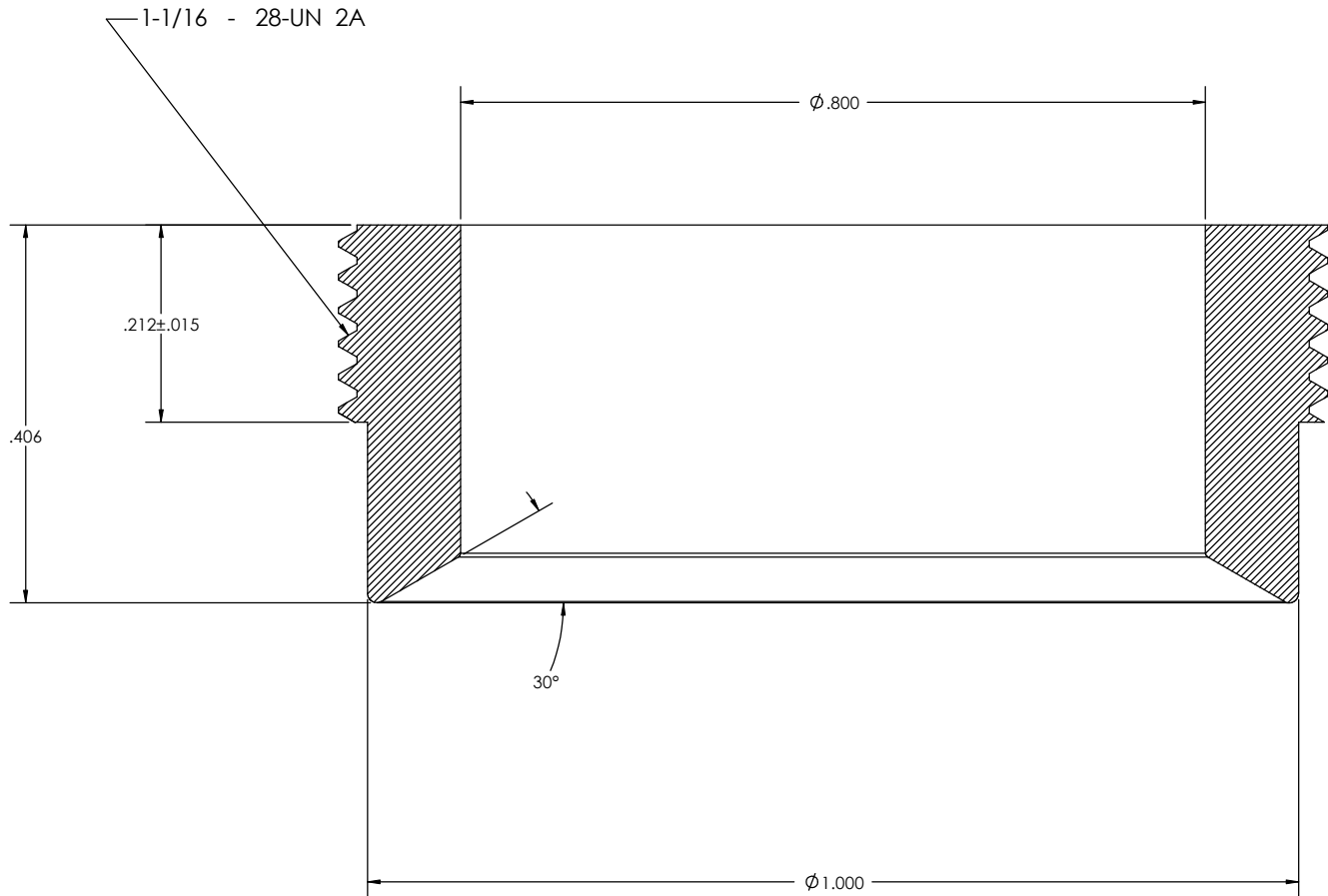
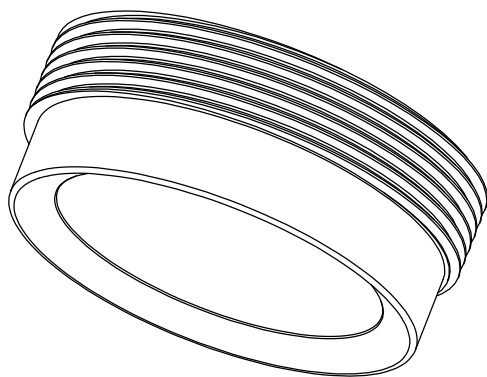
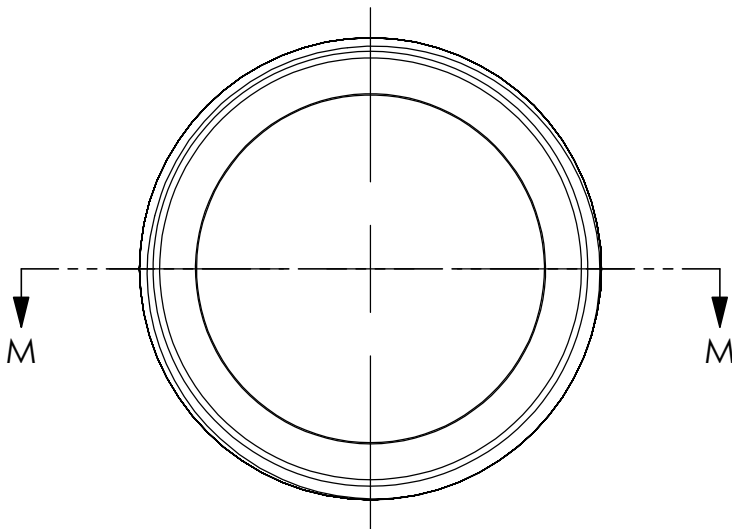
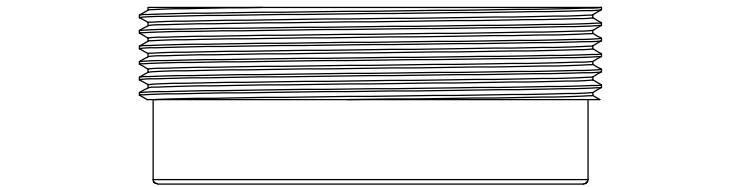
REV. E

last updated on: Thursday, May 29, 2008 10:09:57 AM

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1002402-011
LIGHT SEAL

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

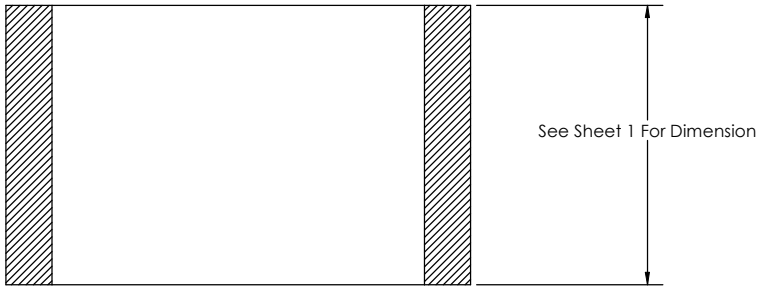
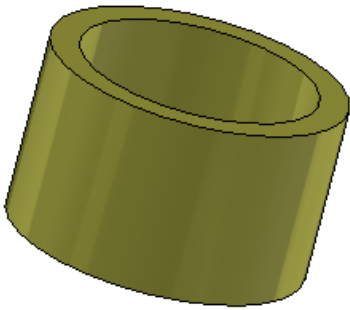
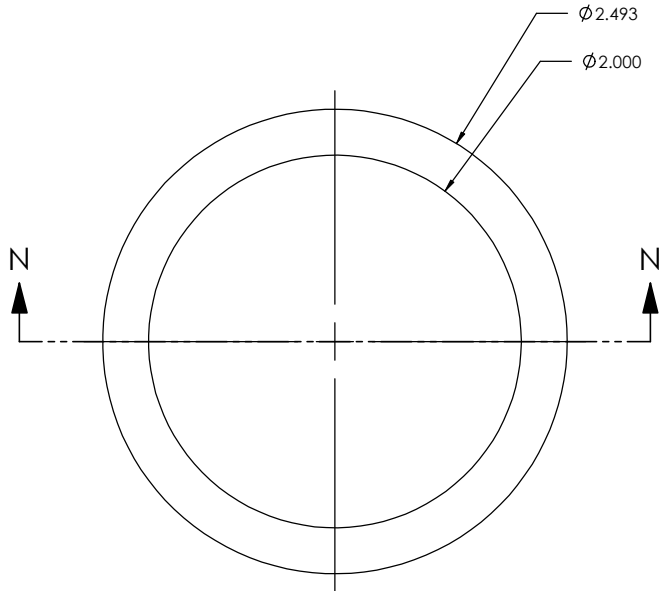


SECTION M-M
SCALE 7.5 : 1

ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
11	1002402-011	Light Seal	Torlon 4301	1
BILL OF MATERIALS				last updated on: Thursday, May 29, 2008 10:09:57 AM
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED		
Inspector	TOLERANCES ARE:		APPROVALS	DATE
Shop Foreman	1 PLACE DIM ±.116	2 PLACE DIM ±.031	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 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 Jason Feldman 831-775-1837 CHECKED PROJECT NUMBER 701312.00 PROJECT ESP 2G	Monterey Bay Aquarium Research Institute 7700 Sandholdt Road Moss Landing, CA 95039  CAMERA MOUNT & LIGHT SEAL SIZE C DWG. NO. 1002402 REV. F
NEXT ASSY Description		NEXT ASSY Number		
DO NOT SCALE DRAWING		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				
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.01	3 PLACE DIM ±.005
Shop Foreman		4. ANGLES ±1°	APPROVALS	
Engineer		1. DIMENSIONS ARE IN INCHES		DATE
NEXT ASSY Description		2. DIMENSION LIMITS HELD AFTER PLATING		ENGINEER Jason Feldman 831-775-1837
NEXT ASSY Number		3. REMOVE BURRS & SHARP EDGES .010 MAX		CHECKED
DO NOT SCALE DRAWING		4. MACHINED FILLET RADII .010 TO .020		PROJECT NUMBER 701312.00
		5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005		PROJECT ESP 2G
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .001 PER INCH MAX .010 INCHES FOR SINGLE SURFACE		SIZE C
		7. SURFACE FINISH TO BE 63 MICRON UNLESS OTHERWISE SPECIFIED		DWG. NO. 1002402
				REV. E
				CAD FILE: X:\701312 ESP 2G\SolidWorks files\Internal structure (1002209)
				SHEET 11 OF 11

last updated on:
Thursday, May 29, 2008 10:09:57 AM

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