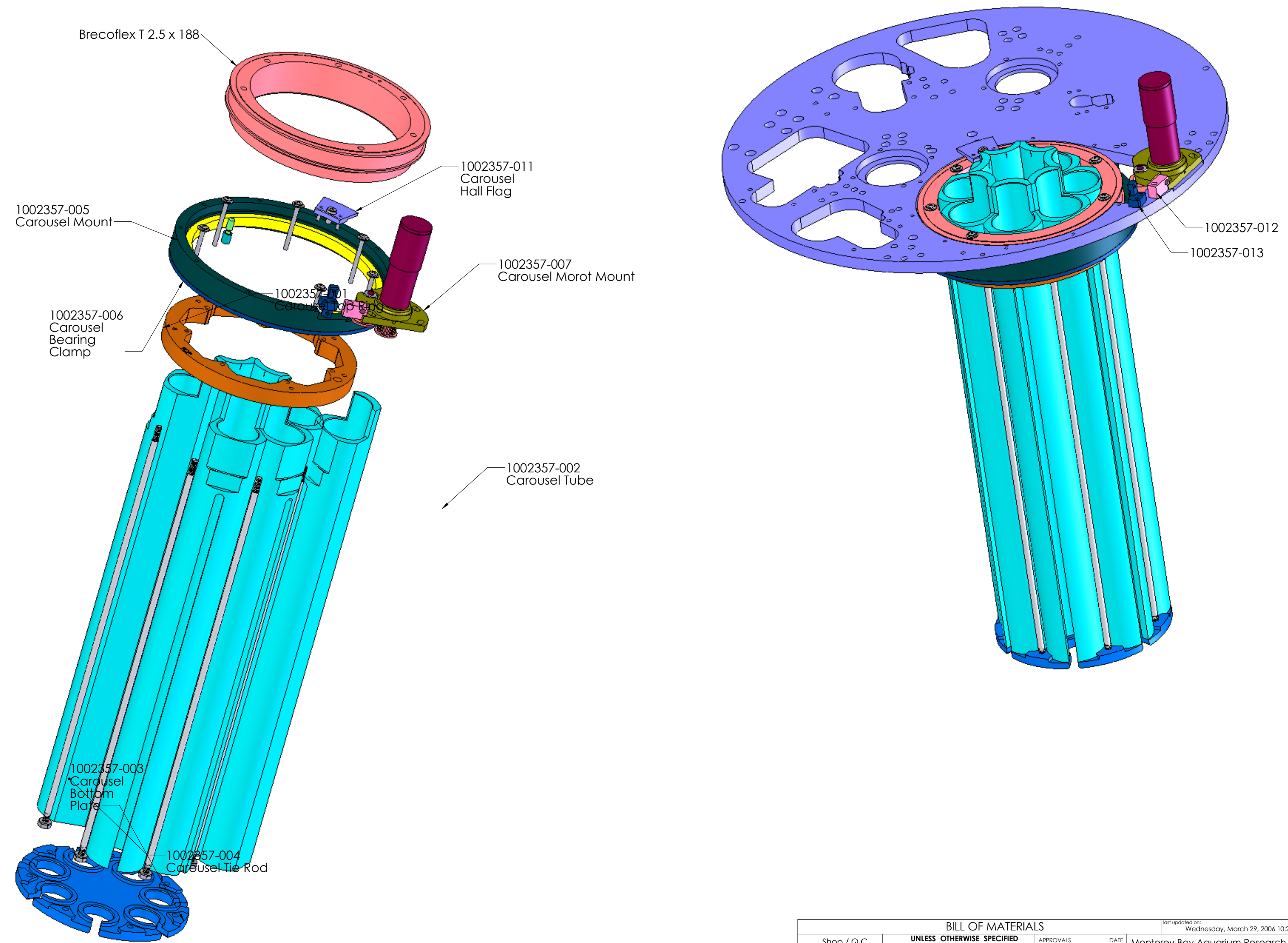


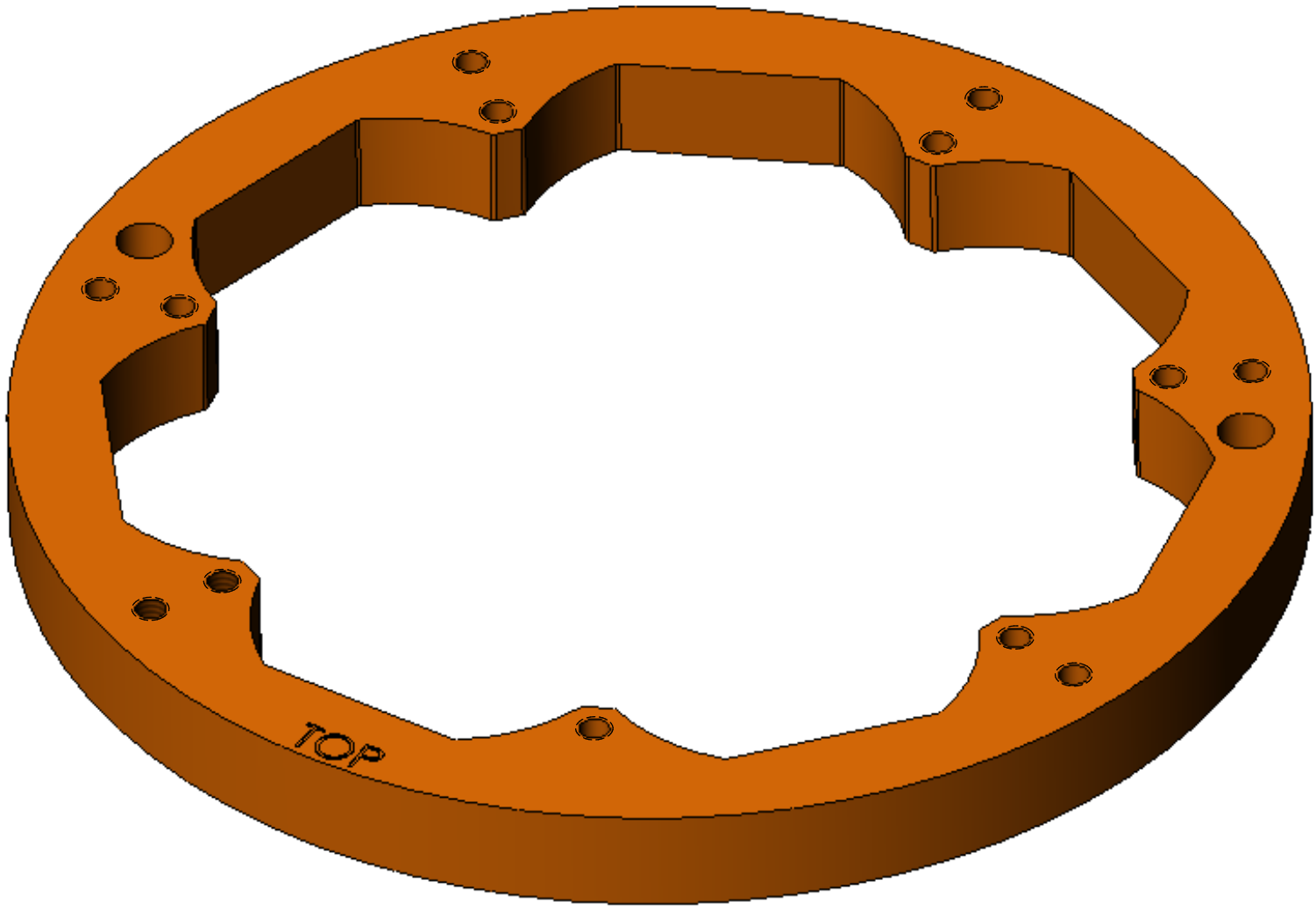
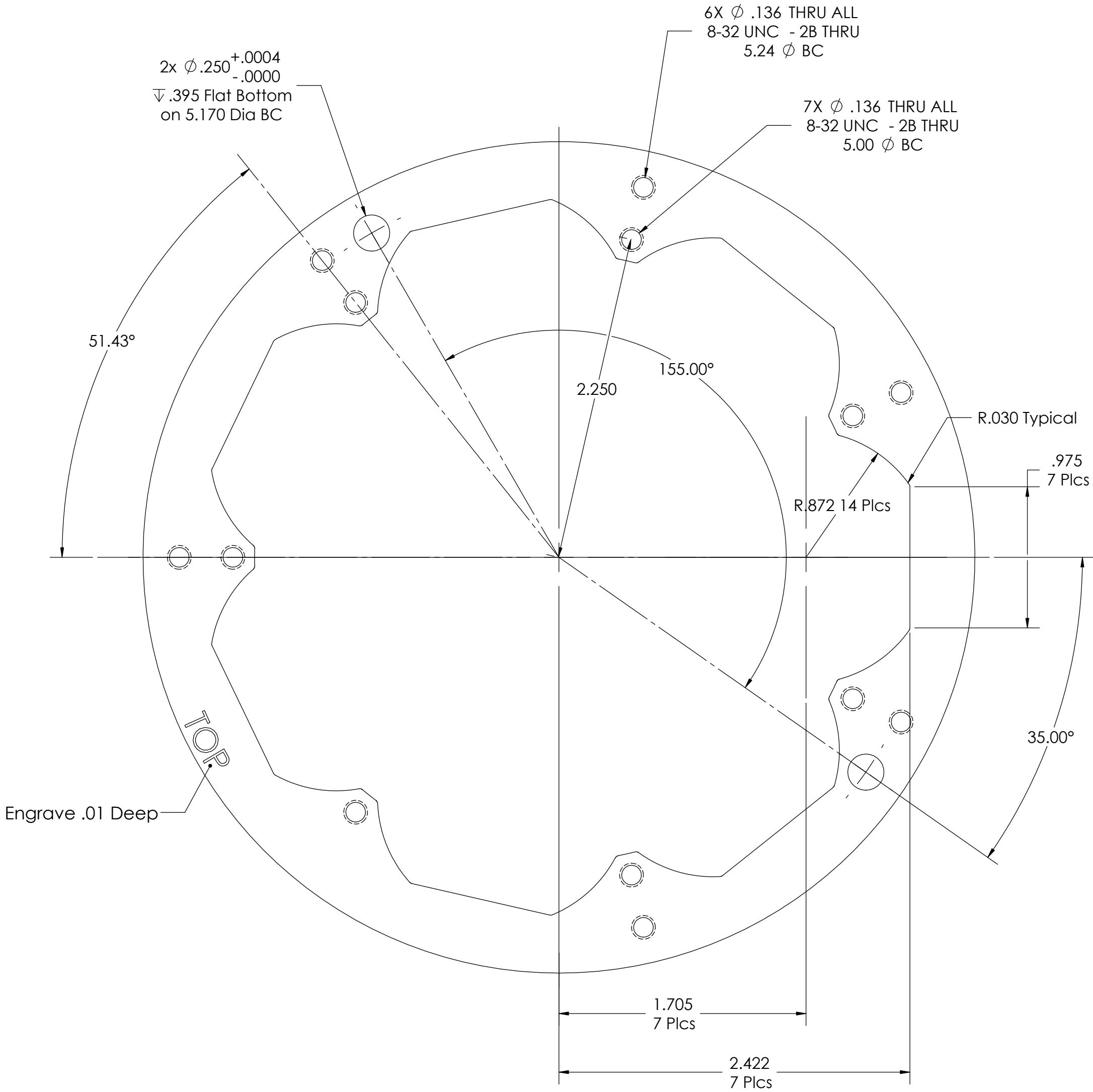
F
E
D
C
B
A



F
E
D
C
B
A

BILL OF MATERIALS					last updated on: Wednesday, March 29, 2006 10:26:30 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	
Inspector					ENGINEER Jason Feldman 831-775-1837 CHECKED	
Shop Foreman					Monterey Bay Aquarium Research Institute 7700 Sandholdt Road Moss Landing, CA 95039	
Engineer						
NEXT ASSY Description	NEXT ASSY Number					
PROJECT NUMBER 701312.00						
DO NOT SCALE DRAWING		PROJECT ESP 2G		SIZE C	DWG. NO. 1002357	REV. A
		CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209) SHEET 1 OF 9				

1002357-001
CAROUSEL TOP RING

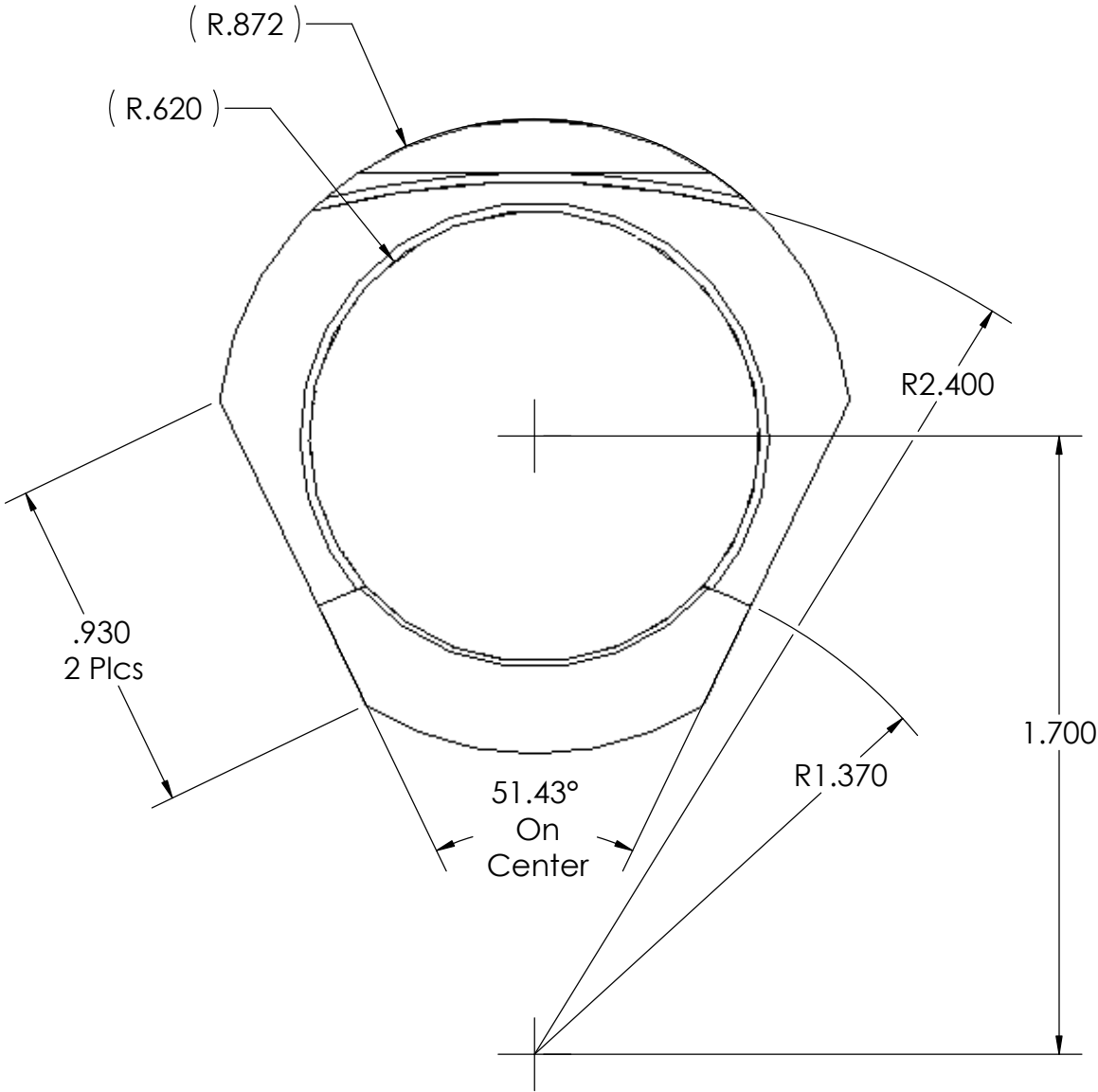
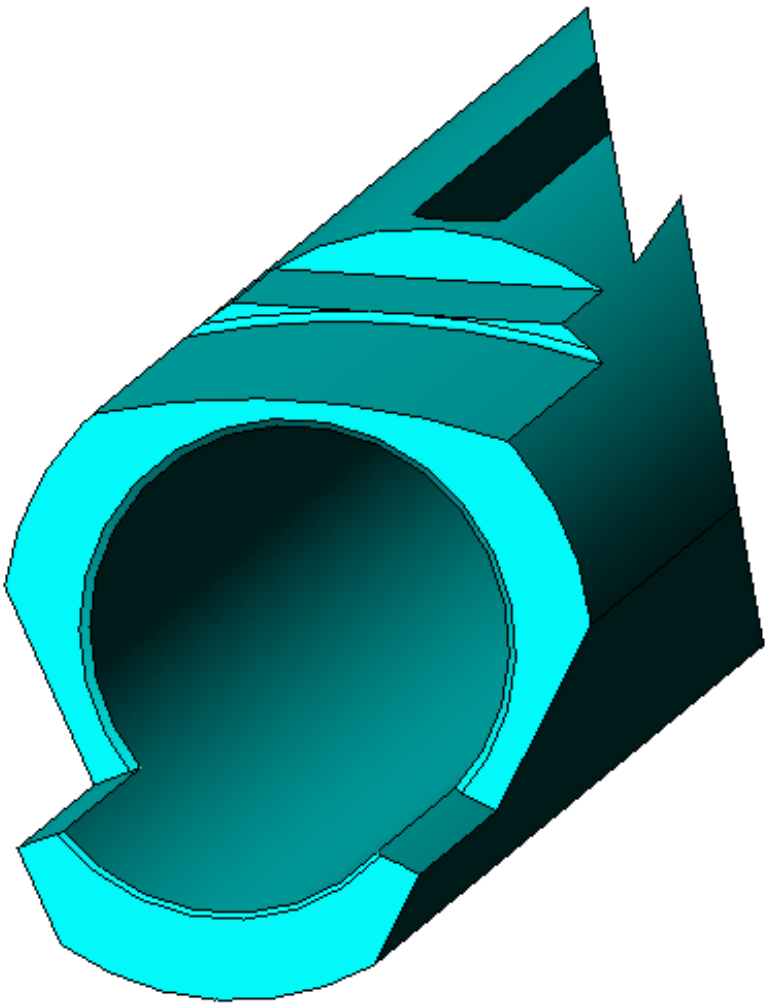
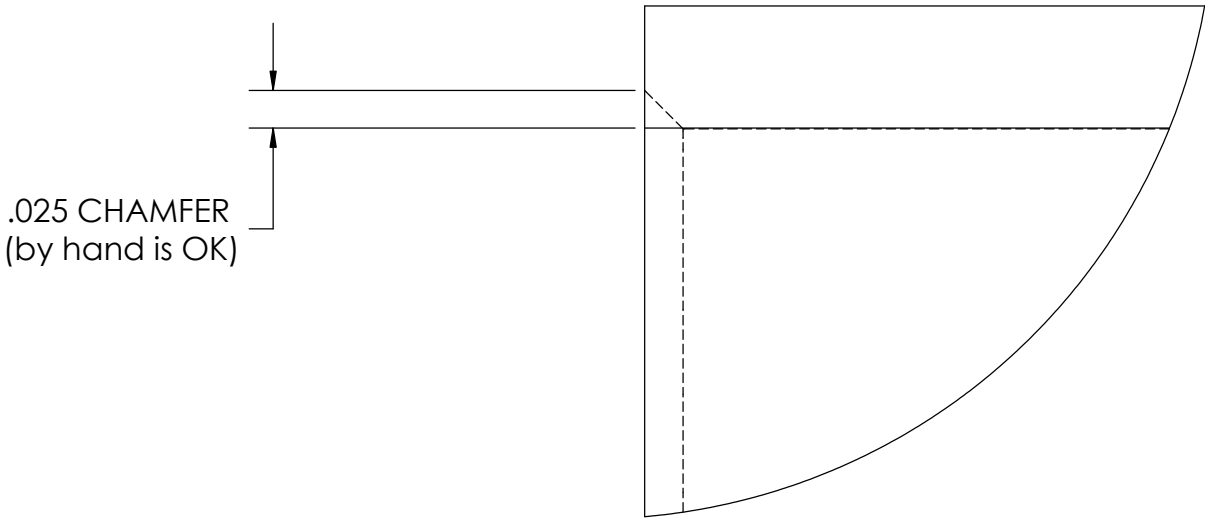
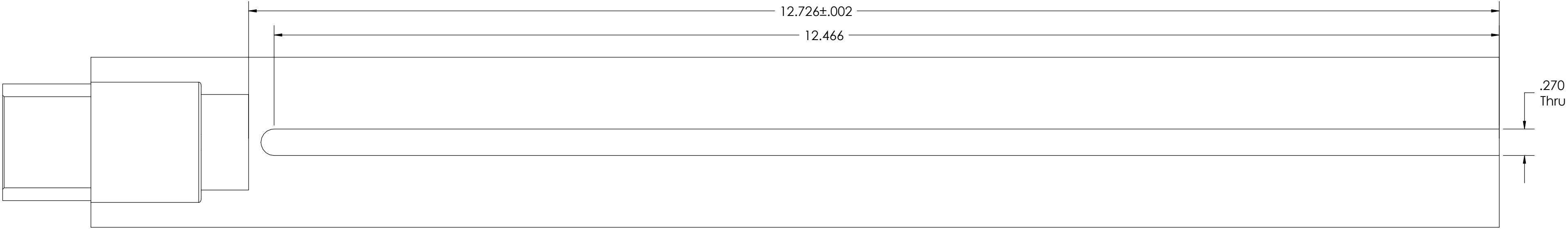


.483

ITEM NO.	PART NUMBER	DESCRIPTION	Material	QTY.	
1	1002357-001	Top Ring	6061-T6 Aluminum	1	
BILL OF MATERIALS			last updated on: Wednesday, March 29, 2006 10:26:30 AM		
Shop / Q.C.		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	APPROVALS DATE Monterey Bay Aquarium Research Institute		
Inspector			ENGINEER Jason Feldman 831-775-1837		
Shop Foreman			CHECKED 7700 Sandholdt Road Moss Landing, CA 95039		
Engineer			PROJECT NUMBER 701312.00 CAROUSEL (prototype)		
NEXT ASSY Description	NEXT ASSY Number		PROJECT ESP 2G	SIZE C	DWG. NO. 1002357
DO NOT SCALE DRAWING		CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209) SHEET 2 OF 9			

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

1002357-002
CAROUSEL TUBE



DETAIL U

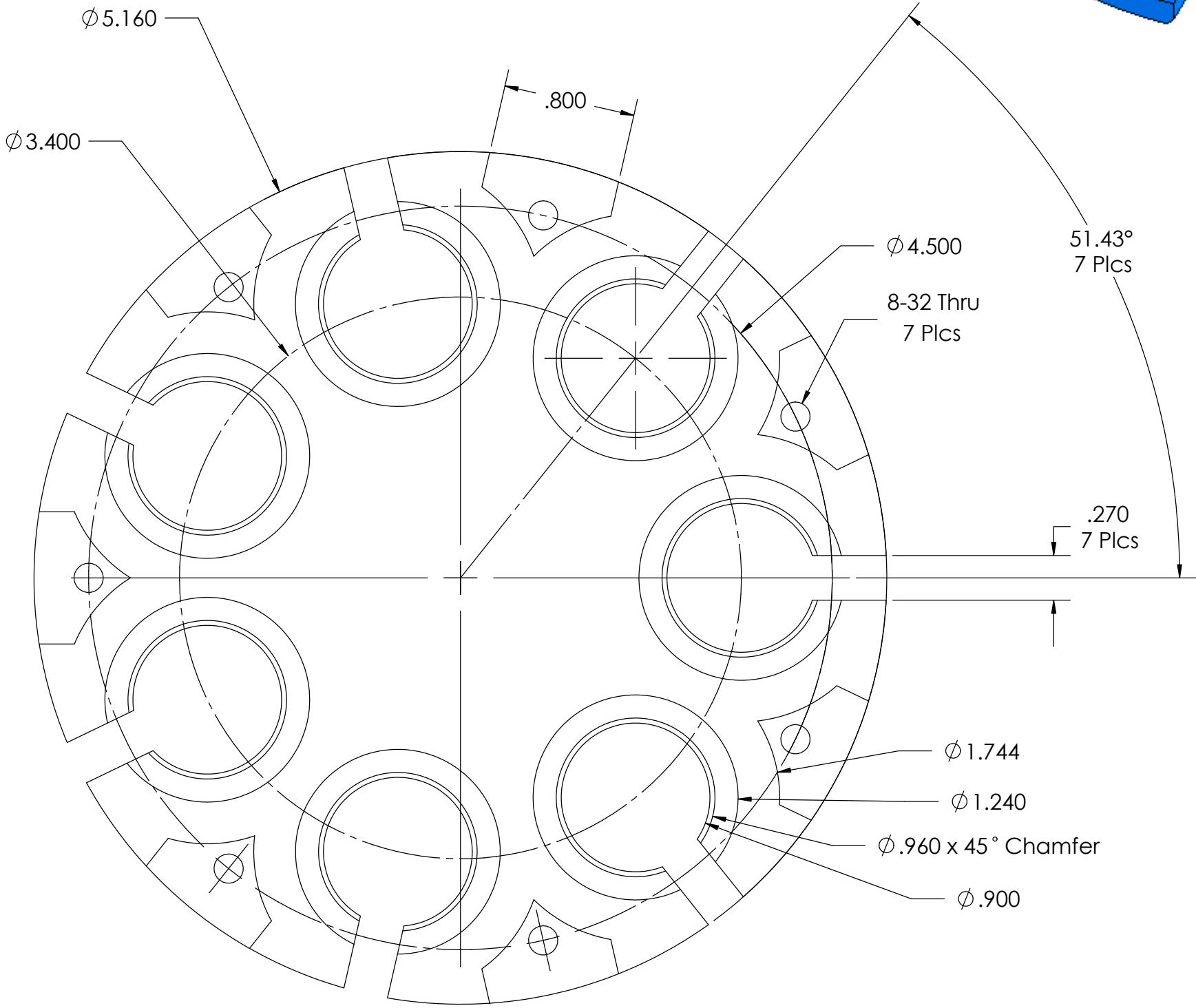
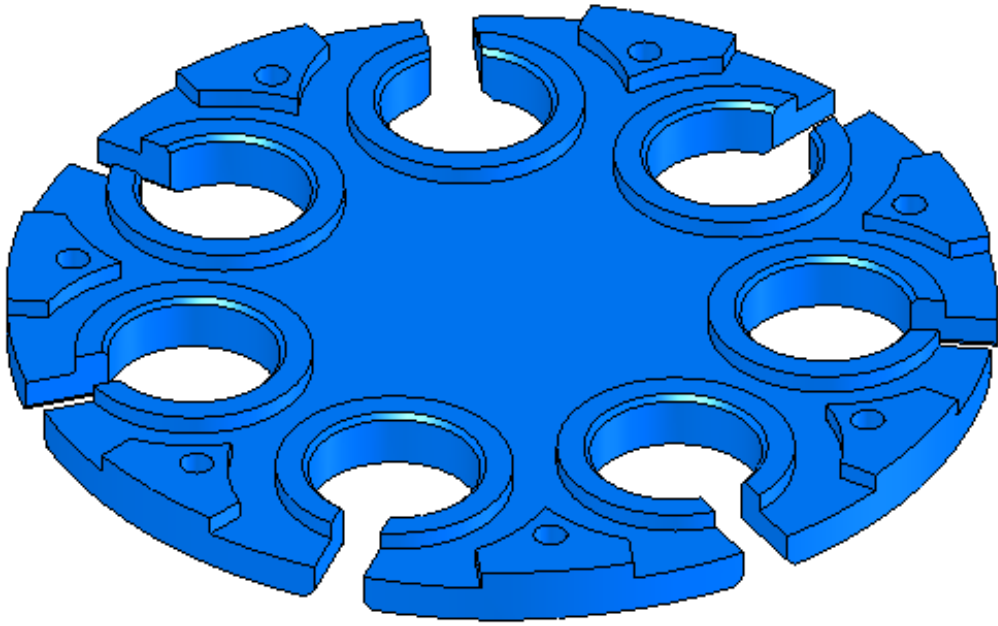
Material: Cast Acrylic Tube

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	1002357-002	Carousel Tube	7

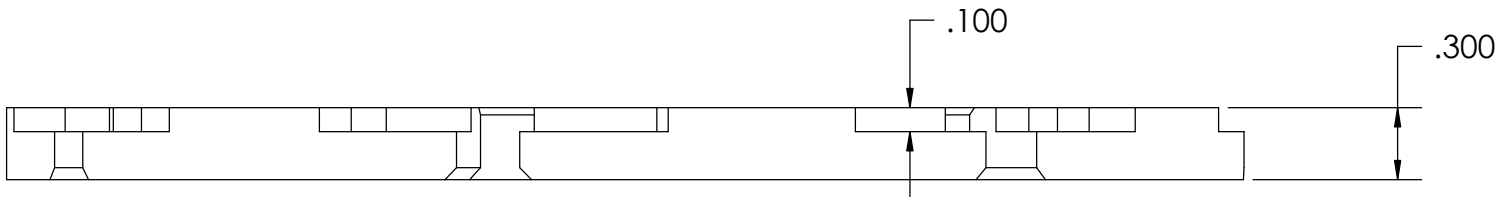
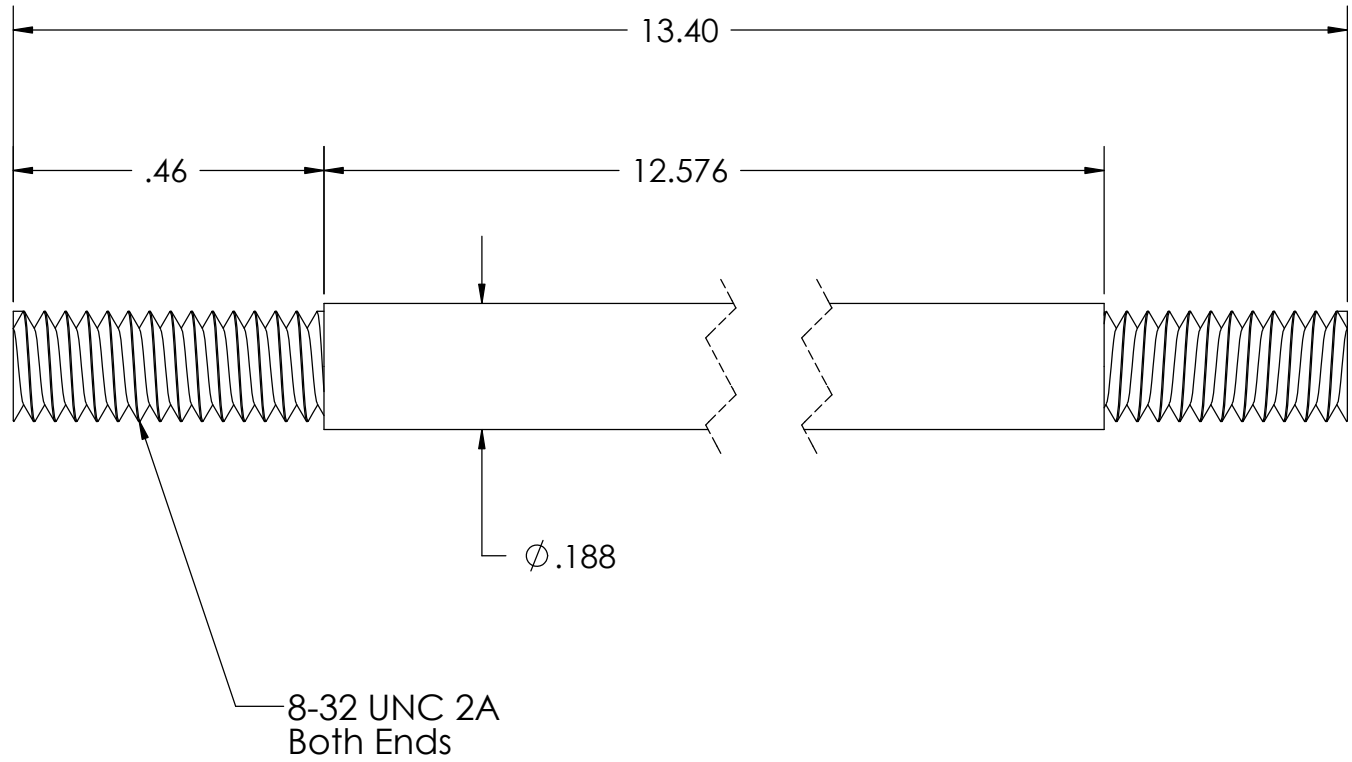
BILL OF MATERIALS					last updated on: Wednesday, March 29, 2006 10:26:30 AM			
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE: 1 PLACE DIM ±1/16 2 PLACE DIM ±.01 3 PLACE DIM ±.005 ANGLES ±1° 1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING 3. REMOVE BURRS & SHARP EDGES .010 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 7700 Sandholdt Road Moss Landing, CA 95039 	
Inspector					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. 1002357	REV. A		
DO NOT SCALE DRAWING		CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209)		SHEET 3 OF 9				



1002357-003
CAROUSEL BOTTOM PLATE



1002357-004
CAROUSEL TIE ROD



Material: Nylatron(R) GSM Blue Nylon

ITEM NO.	PART NUMBER	DESCRIPTION	Material	QTY.
1	1002357-003	Bottom Plate	Nylatron 901 Blue	1
2	1002357-004	Tie Rods	316 Stainless Steel	7

BILL OF MATERIALS				last updated on: Wednesday, March 29, 2006 10:26:30 AM	
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE	
Inspector				ENGINEER Jason Feldman 831-775-1837	
Shop Foreman		1 PLACE DIM ±1/16		2 PLACE DIM ±.01	
Engineer		3 PLACE DIM ±.005		ANGLES ±1°	
NEXT ASSY Description	NEXT ASSY Number	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 COCENTRIC 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	
DO NOT SCALE DRAWING		PROJECT NUMBER 701312.00		CAROUSEL (prototype)	
		PROJECT ESP 2G		SIZE C	DWG. NO. 1002357
		CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209)		REV A	
				SHEET 4 OF 9	

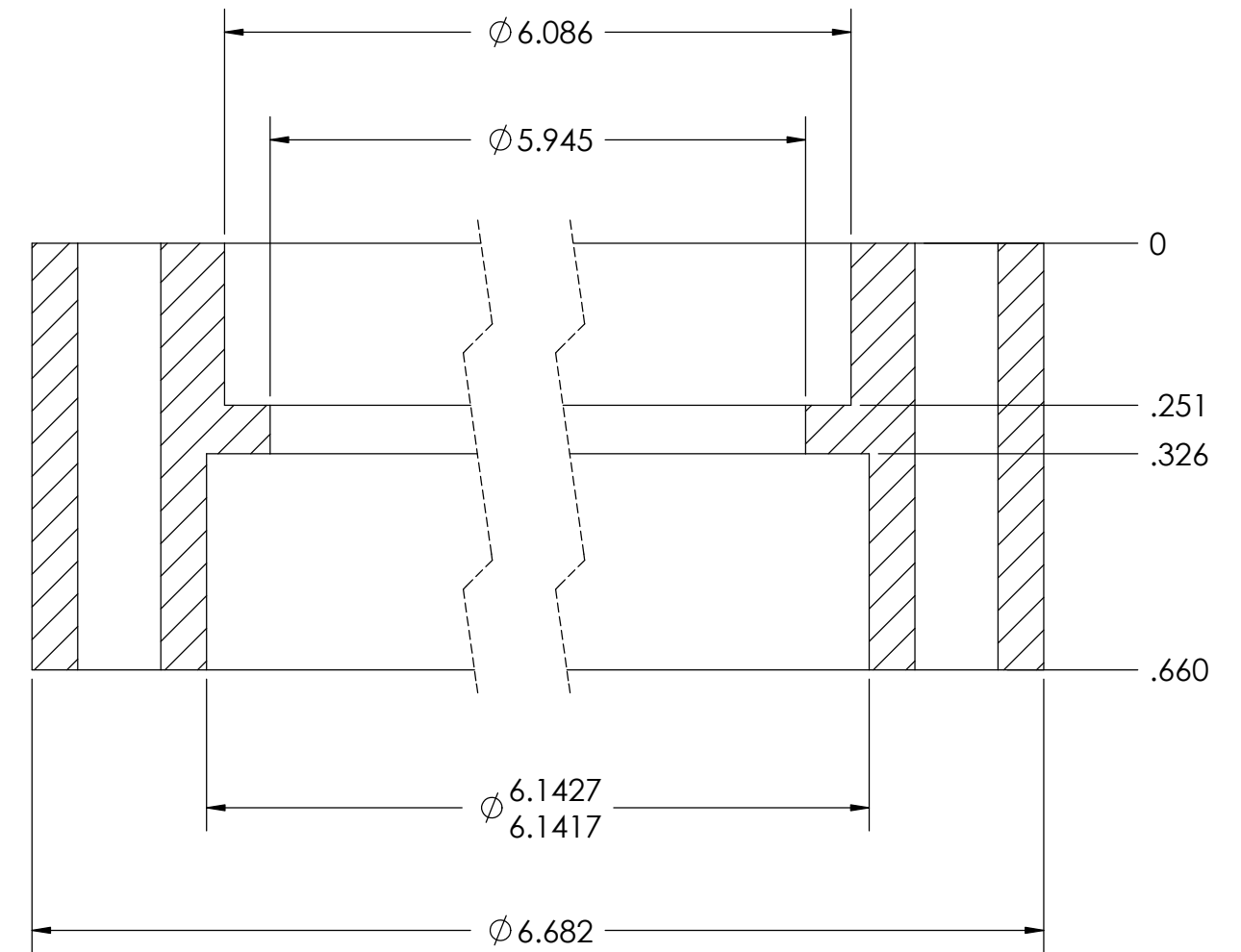
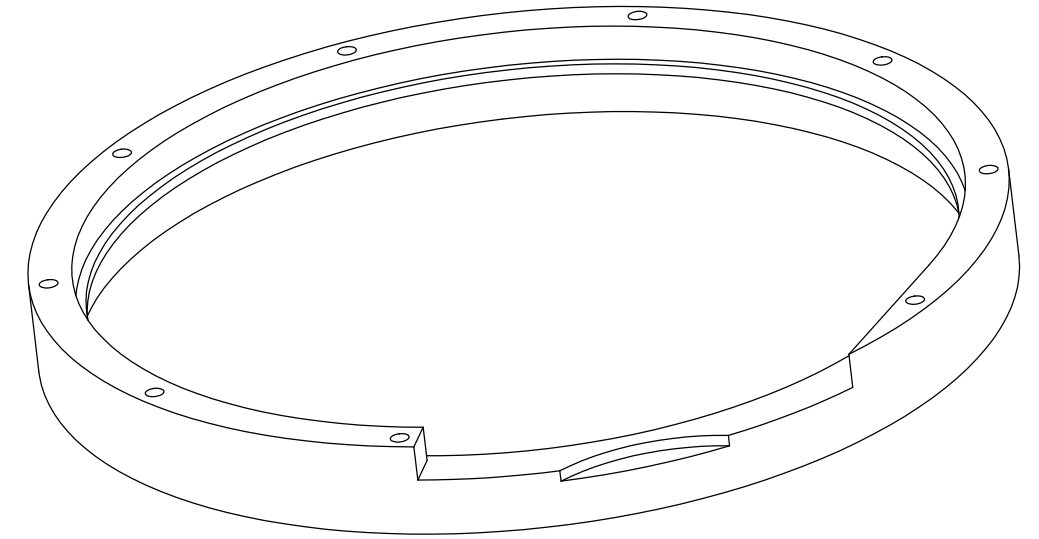
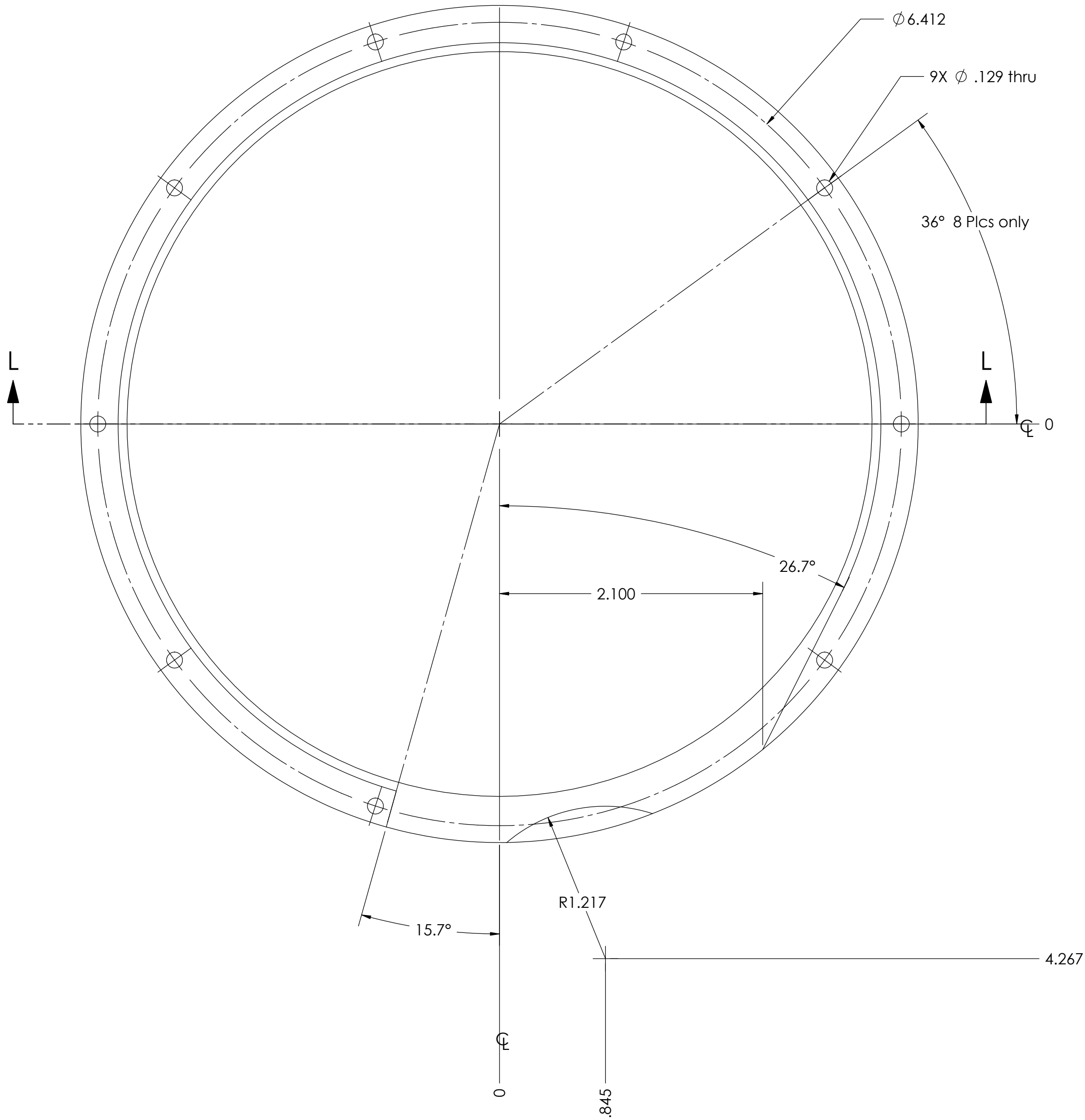
Monterey Bay Aquarium Research Institute

7700 Sandholdt Road
Moss Landing, CA
95039

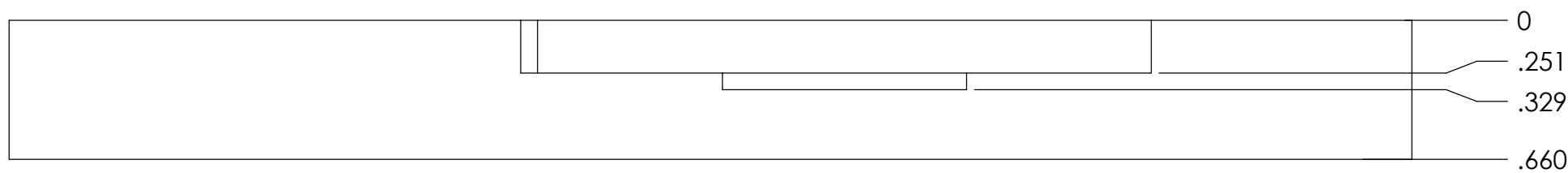


THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MBARI ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF MBARI IS PROHIBITED

1002357-005
CAROUSEL MOUNT



SECTION L-L
SCALE 3.5 : 1

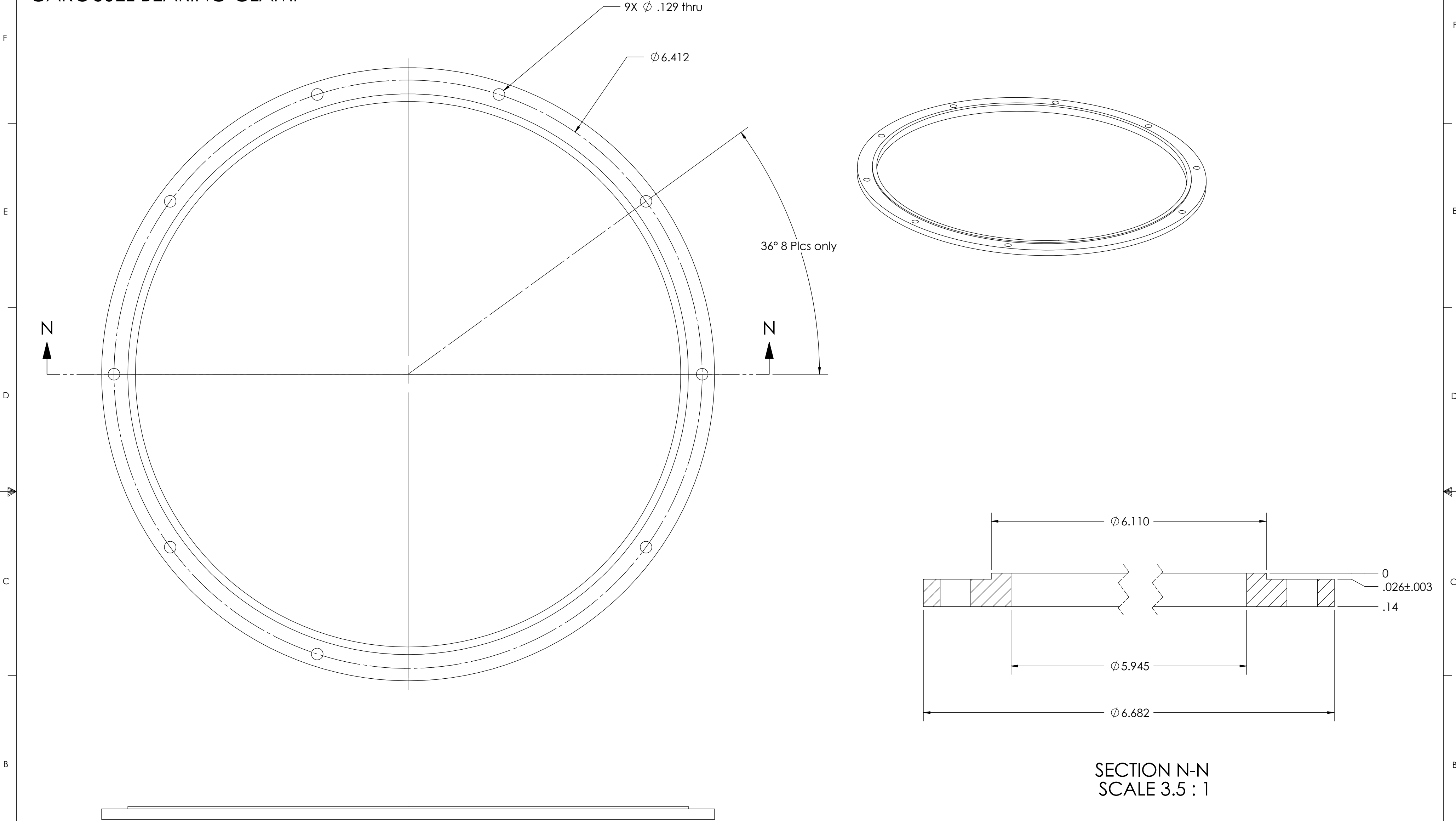


ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
5	1002357-005	Bearing mount	6061-T6 Aluminum	1

BILL OF MATERIALS				last updated on: Wednesday, March 29, 2006 10:26:30 AM	
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE Monterey Bay Aquarium Research Institute	
Inspector		1 PLACE DIM $\pm 1/16$	2 PLACE DIM $\pm .01$	ENGINEER Jason Feldman 831-775-1837	
Shop Foreman		3 PLACE DIM $\pm .005$	ANGLES $\pm 1^\circ$	7700 Sandholdt Road Moss Landing, CA 95039	
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	
NEXT ASSY Description	NEXT ASSY Number	PROJECT NUMBER 701312.00		CAROUSEL (prototype)	
DO NOT SCALE DRAWING		PROJECT ESP 2G		SIZE C	DWG. NO. 1002357
CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209)				REV. A	
SHEET 5 OF 9					

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

1002357-006
CAROUSEL BEARING CLAMP



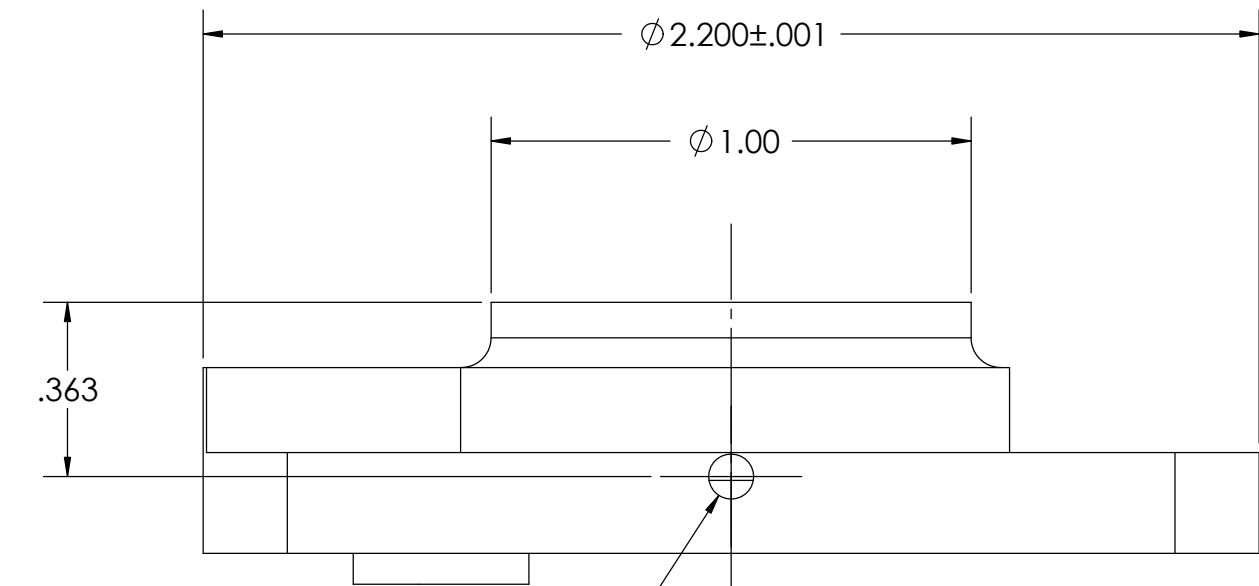
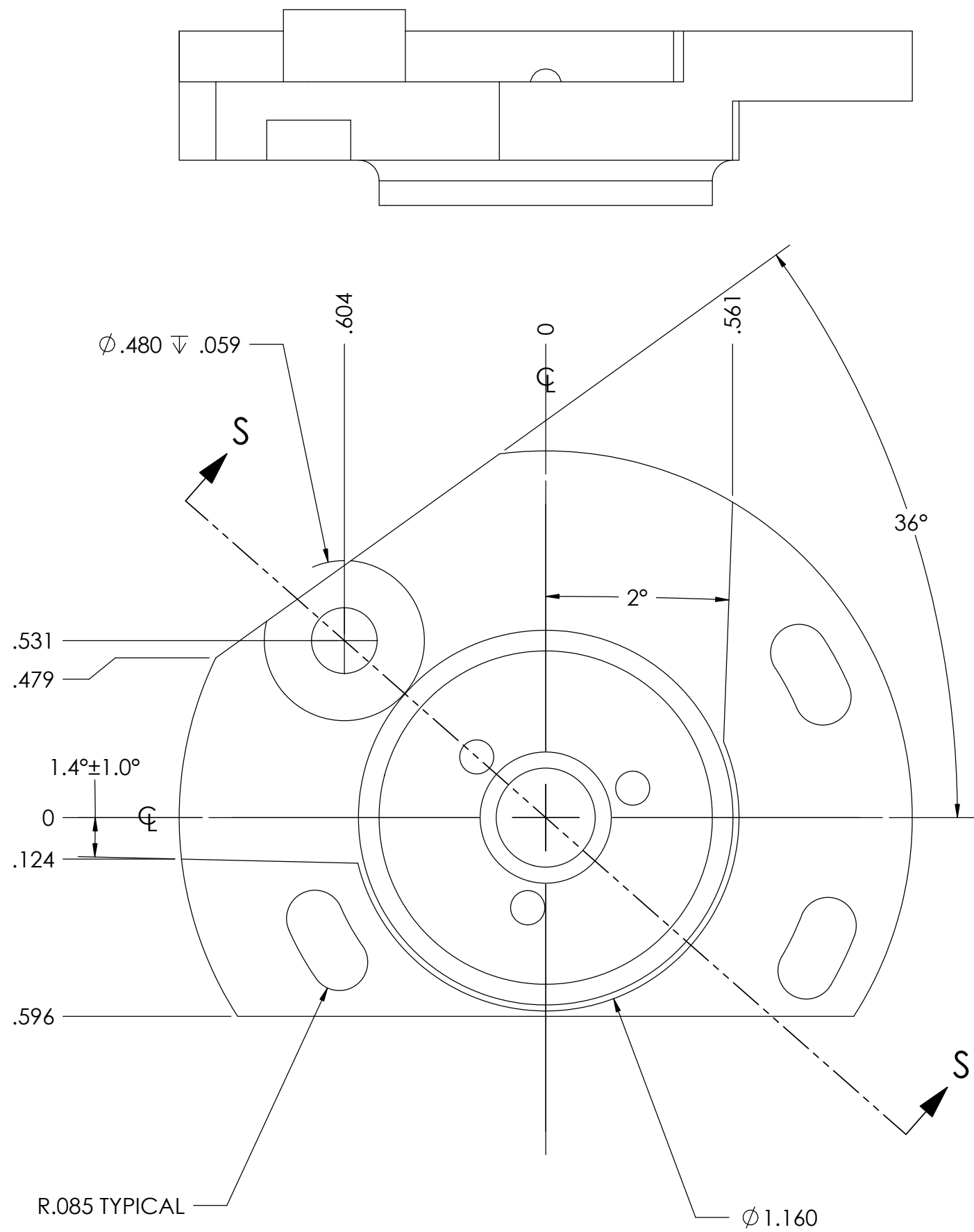
ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
6	1002357-006	Bearing retainer	6061-T6 Aluminum	1

BILL OF MATERIALS				last updated on: Wednesday, March 29, 2006 10:26:30 AM	
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE: 1 PLACE DIM $\pm 1/16$ 2 PLACE DIM $\pm .01$ 3 PLACE DIM $\pm .005$ ANGLES $\pm 1^\circ$		APPROVALS DATE	
Inspector				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		SIZE C		DWG. NO. 1002357	
				REV A	
CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209)				SHEET 6 OF 9	

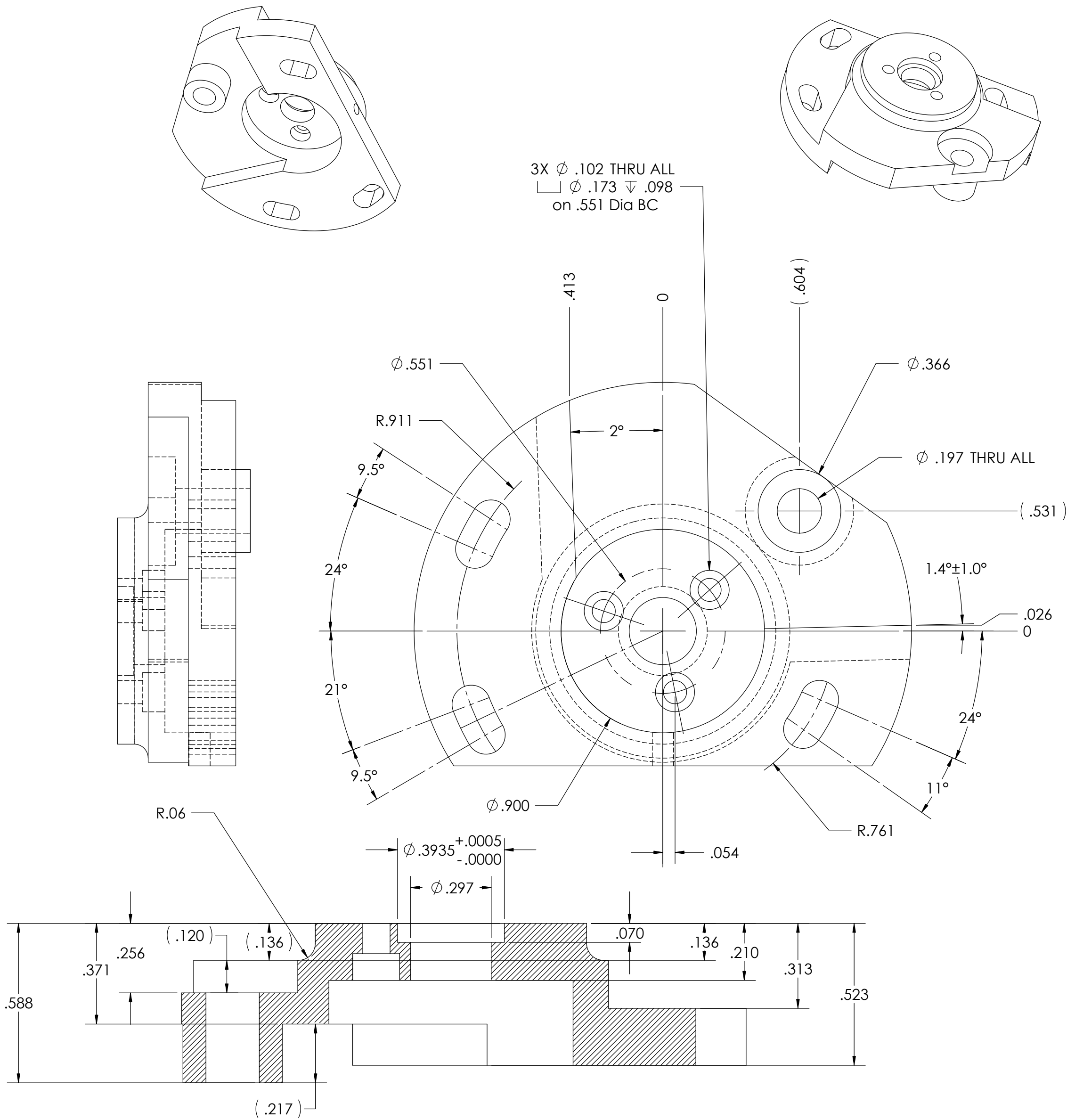
Monterey Bay Aquarium Research Institute	
M B A R I	
	
7700 Sandholdt Road Moss Landing, CA 95039	

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

1002357-007
CAROUSEL MOTOR MOUNT



$\phi .094 \pm .400$ (THRU TO BORE)
ACCESS FOR SET-SCREW WRENCH



SECTION S-S

ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
7	1002357-007	Motor mount	6061-T6 Aluminum	1

BILL OF MATERIALS				last updated on:
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				Wednesday, March 29, 2006 10:26:30 AM
1 PLACE DIM $\pm 1/16$	2 PLACE DIM $\pm .01$	3 PLACE DIM $\pm .005$	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				

Shop / Q.C.	Inspector	Shop Foreman	Engineer	Next Assy Description	Next Assy Number

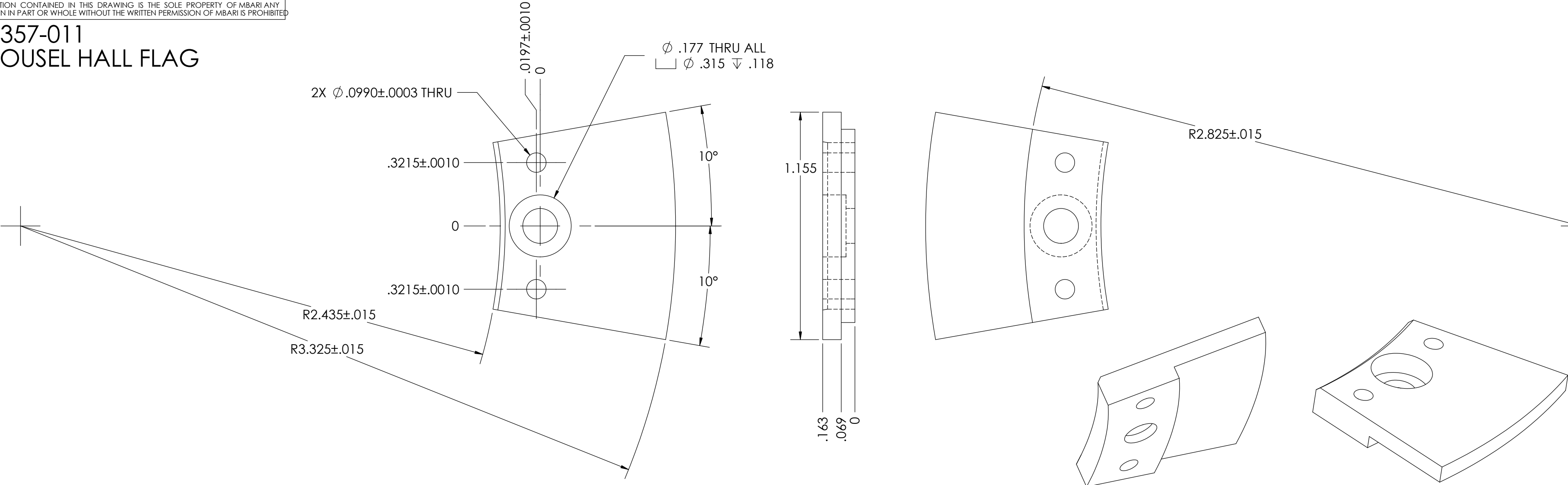
APPROVALS	DATE	ENGINEER	CHECKED	PROJECT NUMBER	PROJECT	SIZE	DWG. NO.	REV
		Jason Feldman		701312.00	ESP 2G	C	1002357	A

Monterey Bay Aquarium Research Institute				CAROUSEL (prototype)			
7700 Sandholdt Road				Moss Landing, CA			
95039							

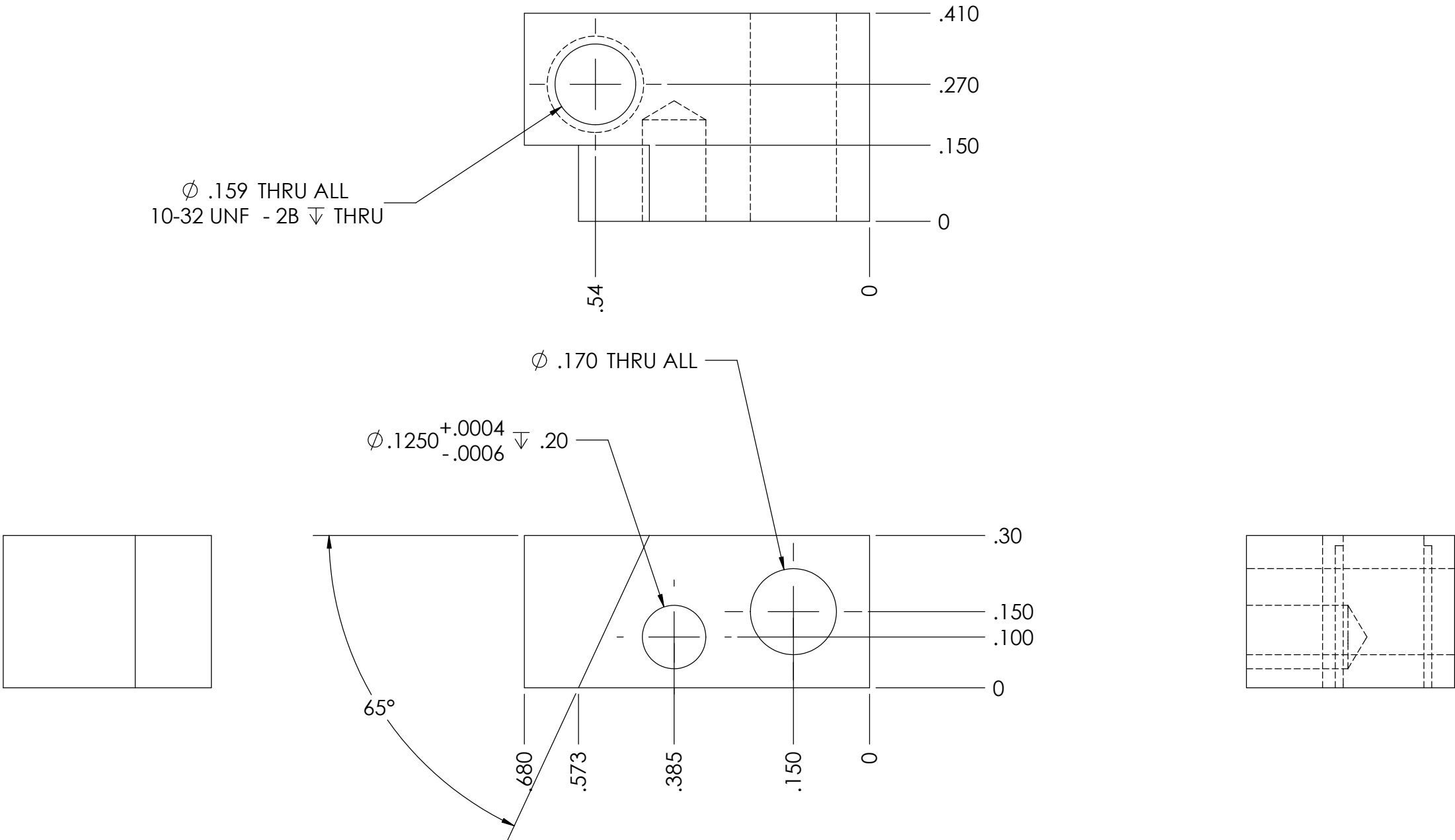
CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209)				SHEET 7 OF 9			
--	--	--	--	--------------	--	--	--

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

1002357-011
CAROUSEL HALL FLAG

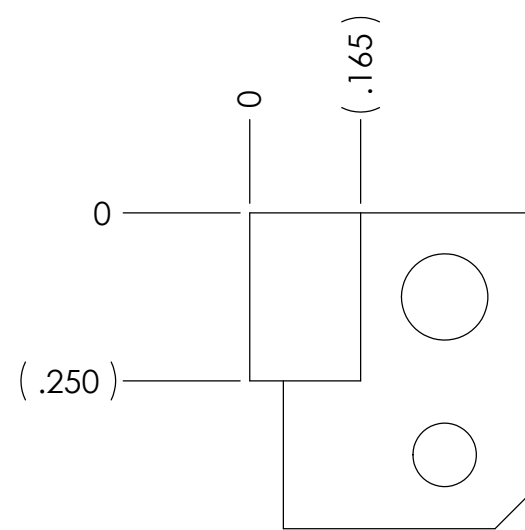
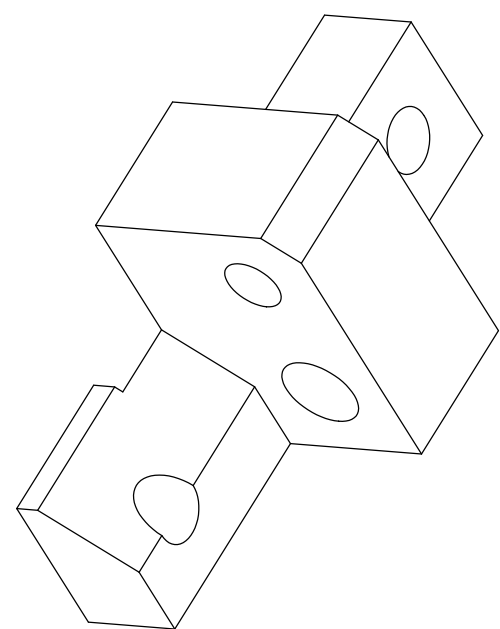
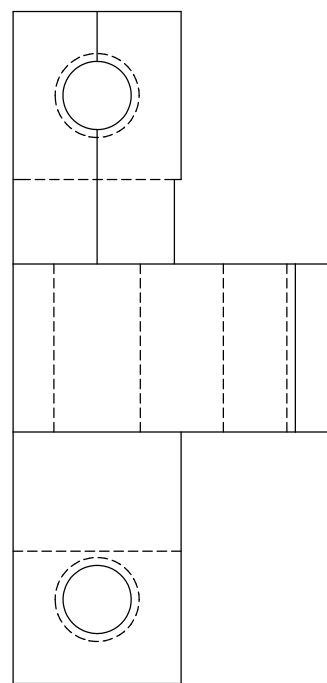
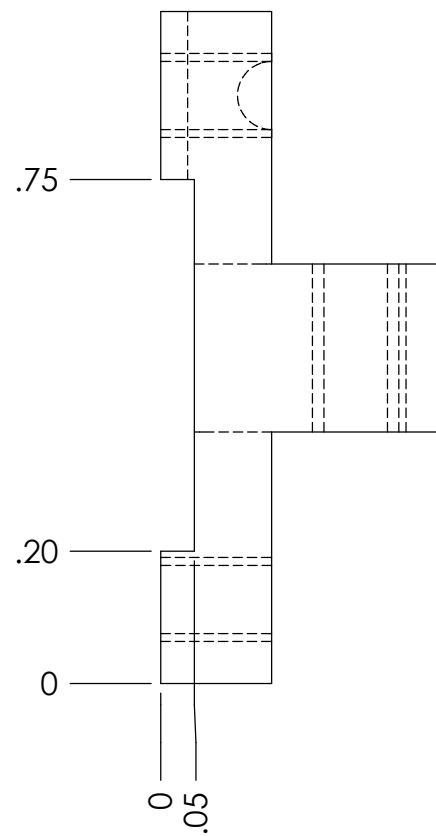
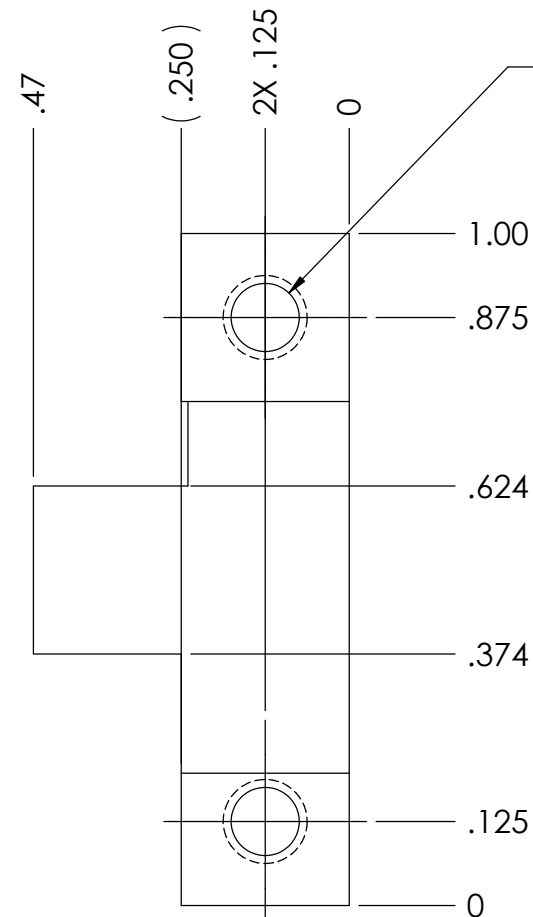
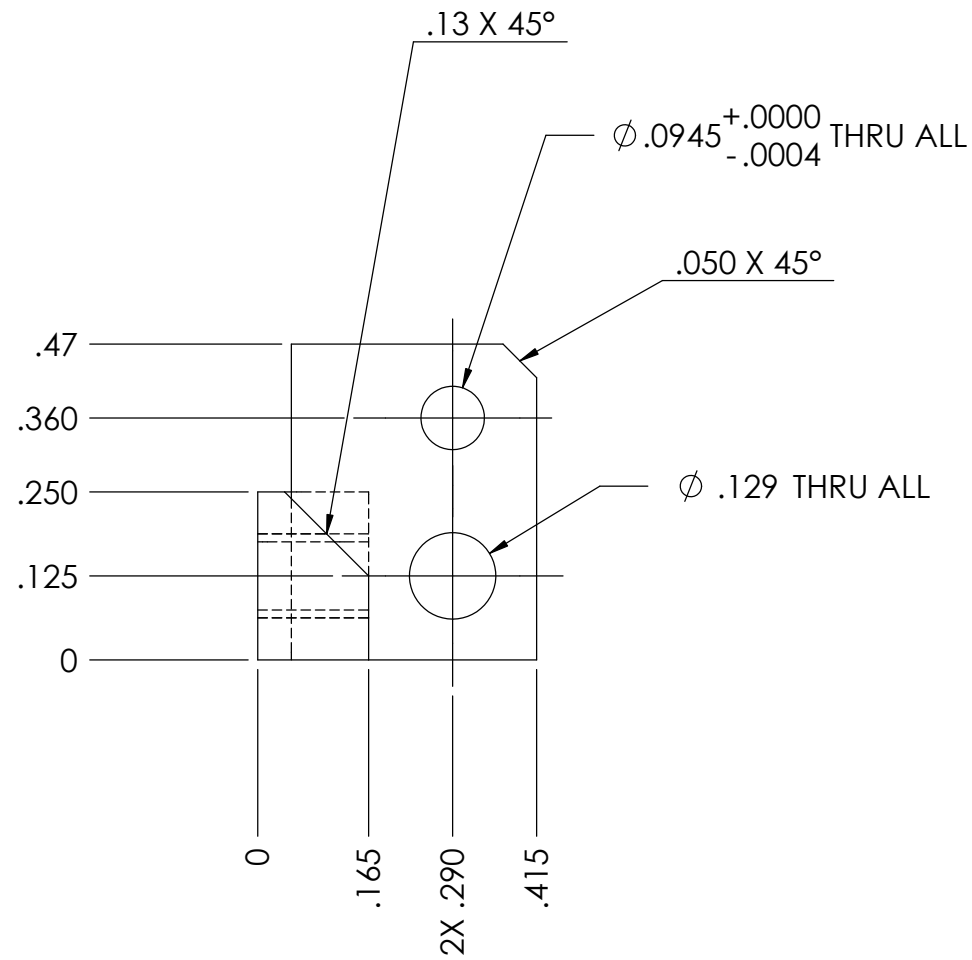


1002357-012
CAROUSLE BELT TENSIONER

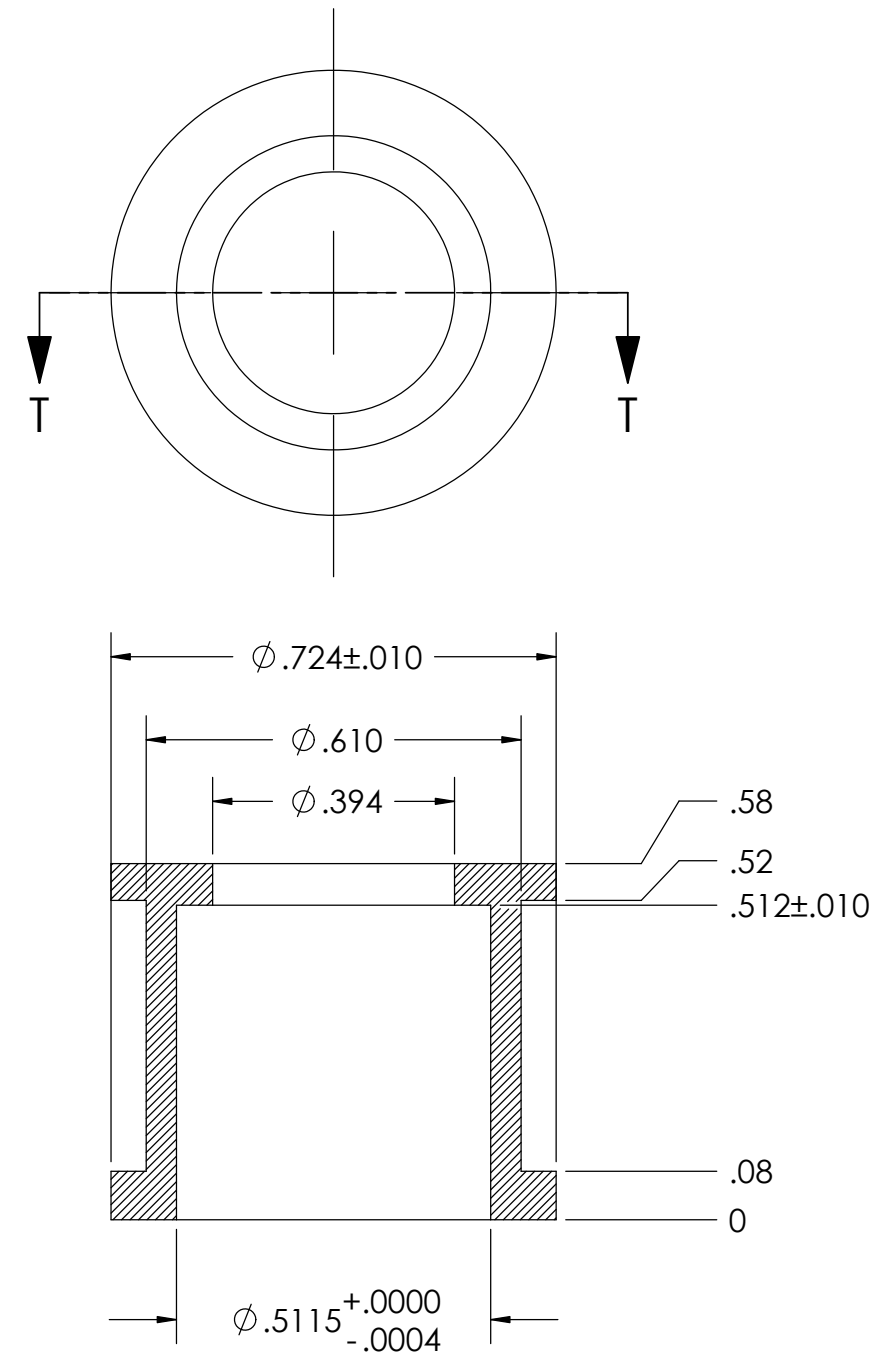


ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.		
11	1002357-011	Hall Effect Flag	17-4 Stainless Steel	1		
12	1002357-012	Tensioner stop	6061-T6 Aluminum	1		
BILL OF MATERIALS			last updated on: Wednesday, March 29, 2006 10:26:30 AM			
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE: 1. PLACE DIM ±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 ENGINEER Jason Feldman 831-775-1837 CHECKED PROJECT NUMBER 701312.00 PROJECT ESP 2G CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209)		Monterey Bay Aquarium Research Institute 7700 Sandholdt Road Moss Landing, CA 95039 CAROUSEL (prototype) SIZE C DWG. NO. 1002357 REV A	
Inspector						
Shop Foreman						
Engineer						
NEXT ASSY Description	NEXT ASSY Number					
DO NOT SCALE DRAWING						

1002357-013 CAROUSEL HALL MOUNT

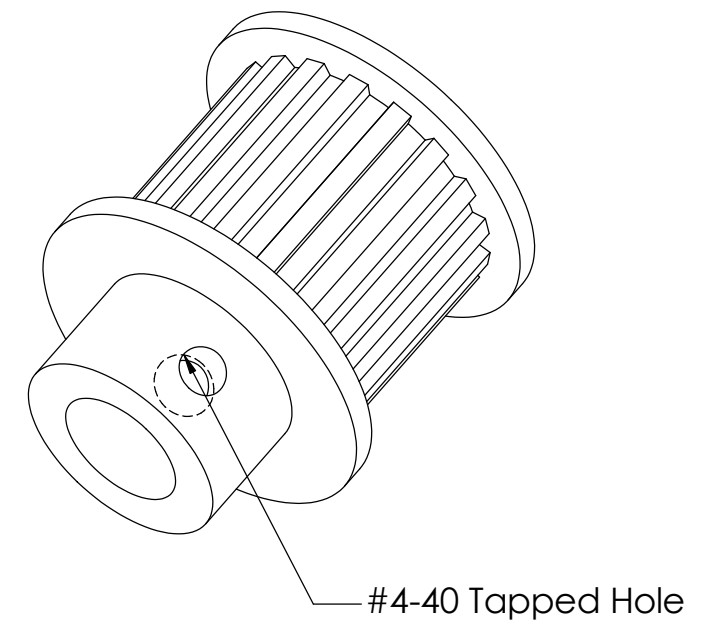
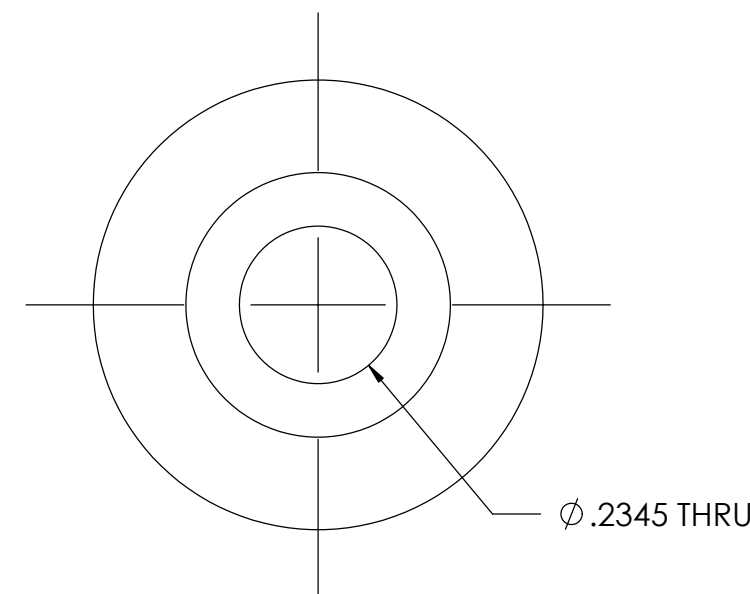


1002357-014 CAROUSEL IDLER



SECTION T-T

1002357-015 (modification to BRECOFLEX)



ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
13	1002357-013	Hall Sensor mount for carousel	6061-T6 Aluminum	1
14	1002357-014	Idler pulley for carousel	6061-T6 Aluminum	1
15	1002357-015	BrecoFlex Pulley		1

BILL OF MATERIALS				last updated on: Wednesday, March 29, 2006 10:26:30 AM	
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 $\pm 1^\circ$
Shop Foreman		1. DIMENSIONS ARE IN INCHES		ENGINEER Jason Feldman 831-775-1837	
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING		CHECKED	
NEXT ASSY Description	NEXT ASSY Number	3. REMOVE BURRS & SHARP EDGES .010 MAX		PROJECT NUMBER 701312.00	
		4. MACHINED FILLET RADII .010 TO .020		PROJECT ESP 2G	
		5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005		SIZE C DWG. NO. 1002357	
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .001 PER INCH. MAX .010 INCHES FOR SINGLE SURFACE.		REV A	
		7. SURFACE FINISH TO BE 63 MICRON UNLESS OTHERWISE SPECIFIED		CAD FILE: X:\701312 ESP 2G\SolidWorks files\internal structure (1002209)	
DO NOT SCALE DRAWING				SHEET 9 OF 9	