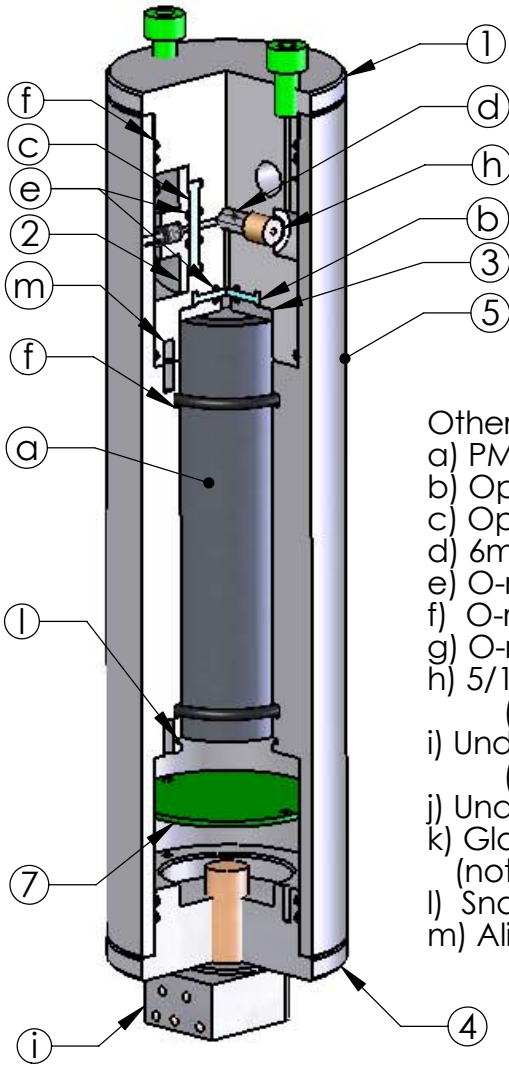
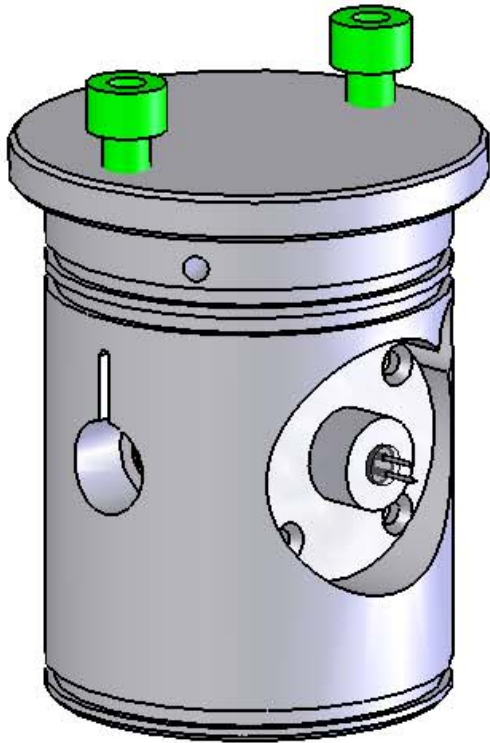
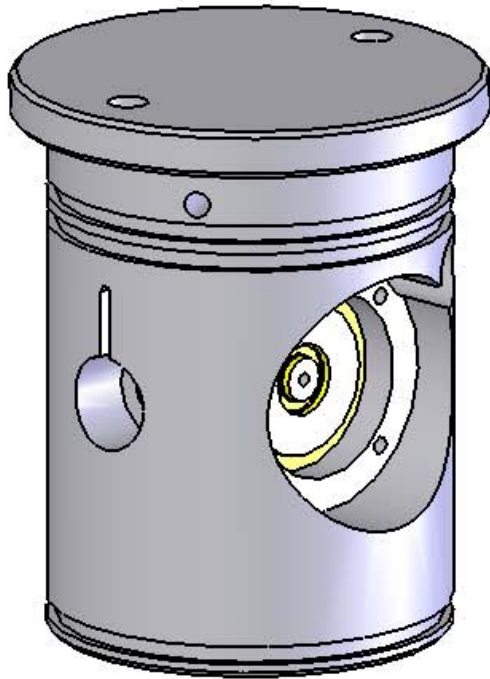


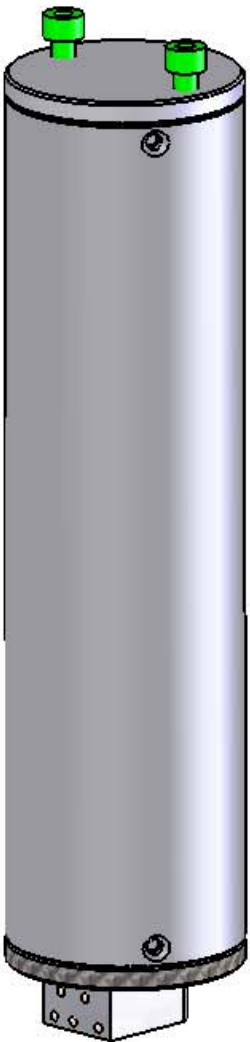
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MBARI ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF MBARI IS PROHIBITED.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		

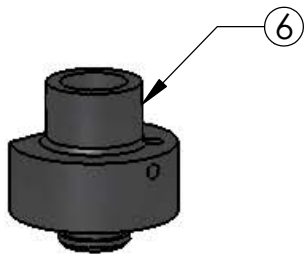


- Other parts:
- a) PMT (Hamamatsu H7360-02)
 - b) Optical Exitation filter (Semrock 482/35-25)
 - c) Optical Emmision filter (Semrock 536/40-25)
 - d) 6mm OD Quartz flowcell
 - e) O-rings (4X-010)
 - f) O-rings (5X -033)
 - g) O-rings (2X -126)
 - h) 5/16-24 flush tube fittings (2X Upchurch cut P136 and P200)
 - i) Underwater connector (Impulse LPBH-5-FS)
 - j) Underwater pigtail (Impulse LPIL-5-MP, not shown)
 - k) Gland fitting for above w/ 1/2" NPT thread (not shown)
 - l) Snapping (McMaster 91580A234)
 - m) Alignment pins (McMaster 97395A441)

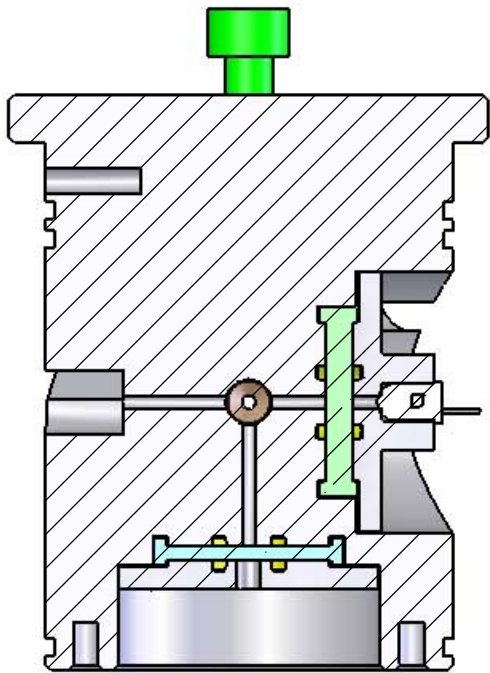
Cutaway



ASSEMBLY



Connector for
YSI 9600



SECTION A-A

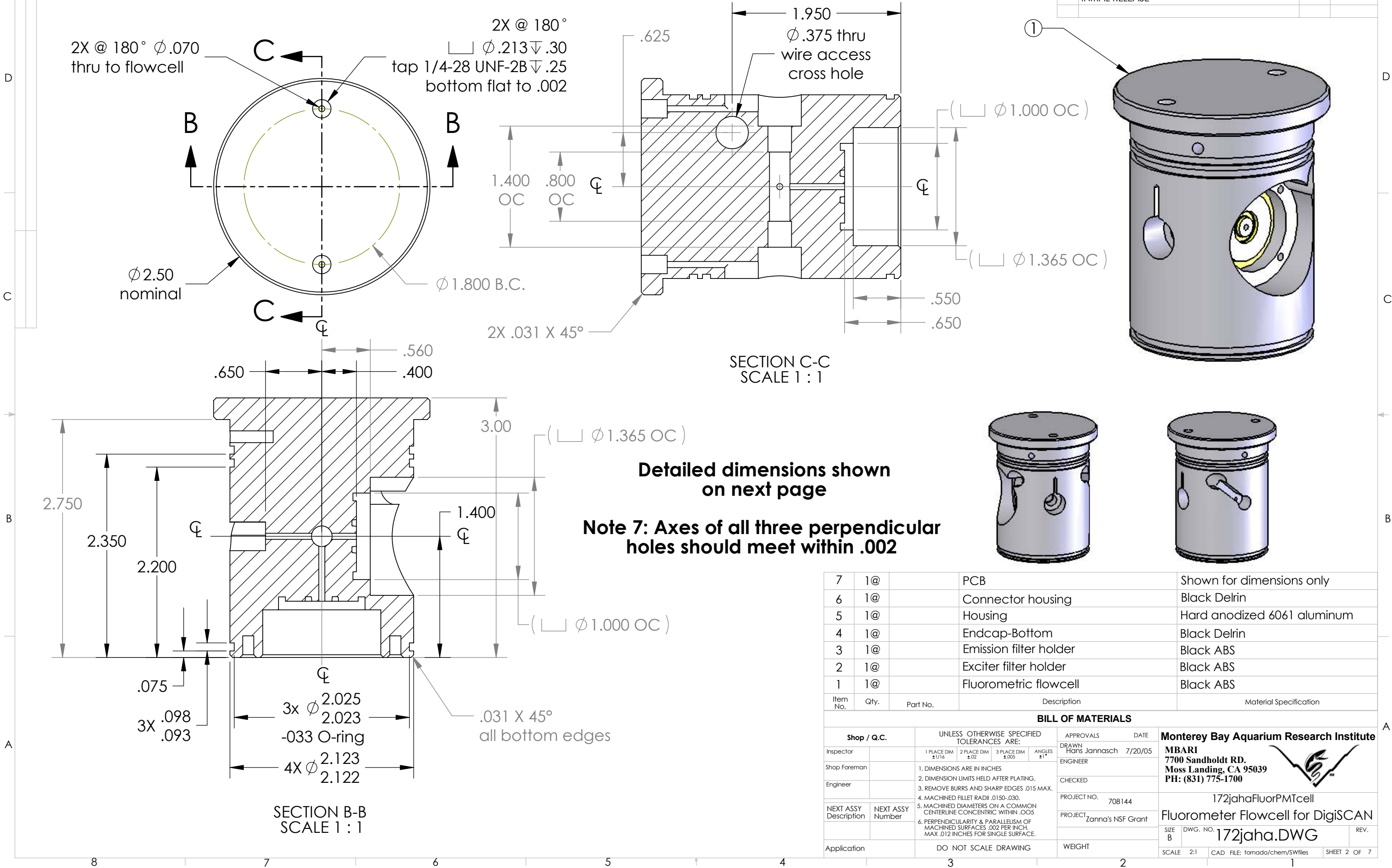
7	1@		PCB	Shown for dimensions only
6	1@		Connector housing	Black Delrin
5	1@		Housing	Hard anodized 6061 aluminum
4	1@		Endcap-Bottom	Black Delrin
3	1@		Emission filter holder	Black ABS
2	1@		Exciter filter holder	Black ABS
1	1@		Fluorometric flowcell	Black ABS
Item No.	Qty.	Part No.	Description	Material Specification

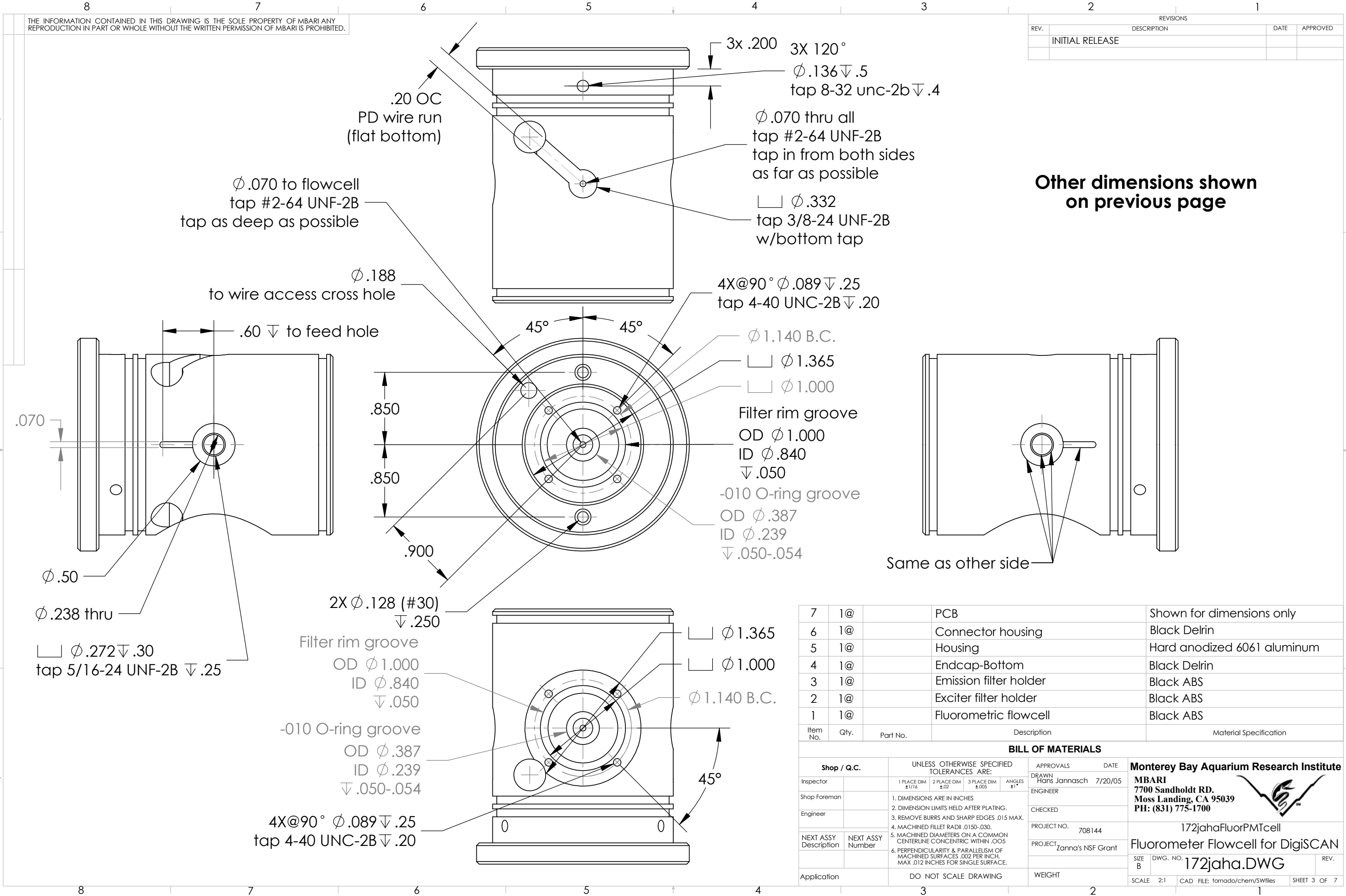
BILL OF MATERIALS

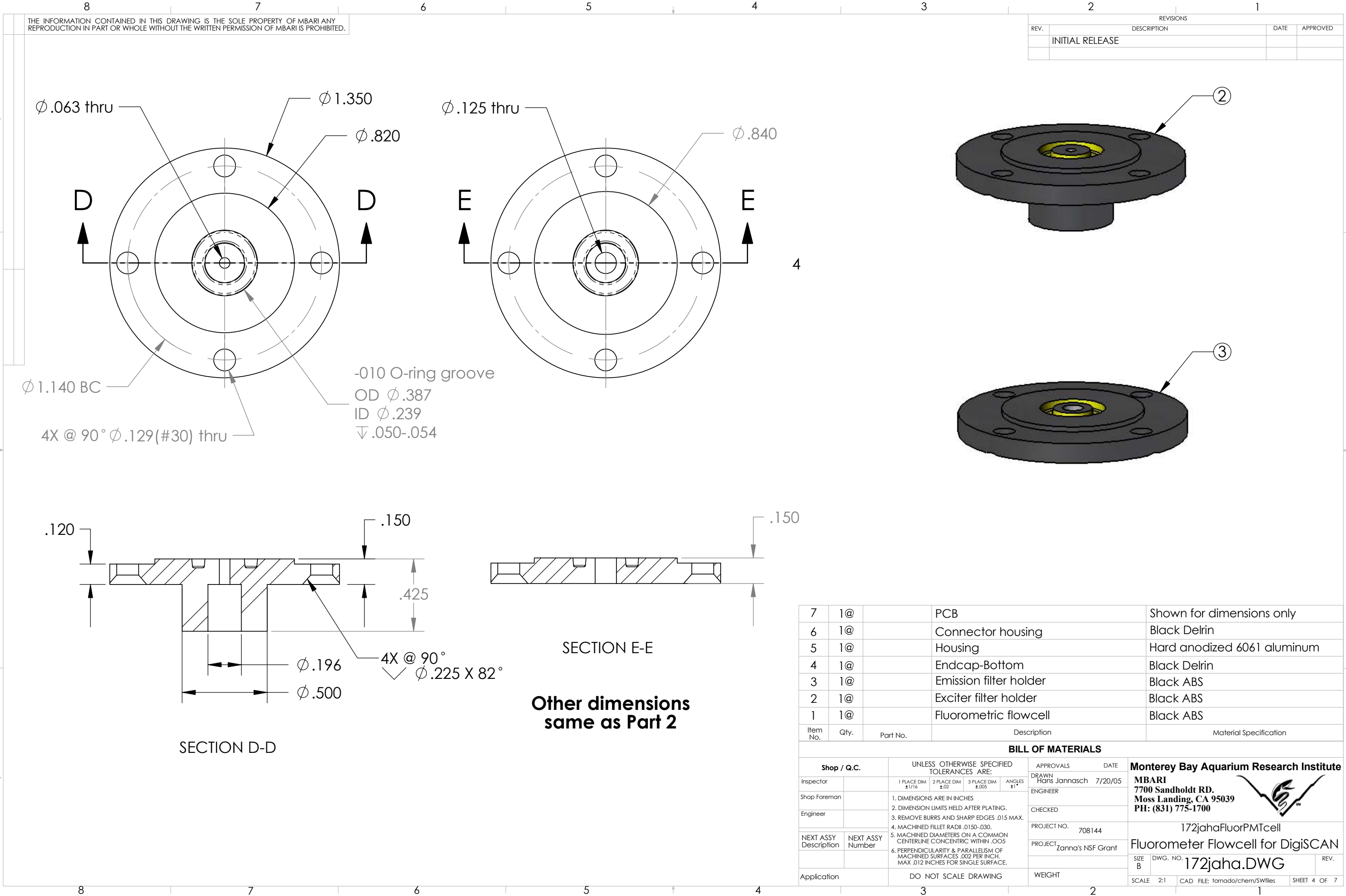
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE	Monterey Bay Aquarium Research Institute		
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN	Hans Jannasch	7/20/05	MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700		
Shop Foreman		1. DIMENSIONS ARE IN INCHES				ENGINEER					
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.				CHECKED	Jon Erickson	8/04/05	172jahaFluorPMTcell		
NEXT ASSY Description	NEXT ASSY Number	3. REMOVE BURRS AND SHARP EDGES .015 MAX.				PROJECT NO.		708144			
		4. MACHINED FILLET RADII .0150-.030.				PROJECT	Zanna's NSF Grant		Fluorometer Flowcell for DigiSCAN		
		5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005									
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.							172jaha.DWG		
Application		DO NOT SCALE DRAWING				WEIGHT					
									SIZE B	DWG. NO.	REV.
									SCALE 1:1	CAD FILE: tornado/chem/SWfiles	SHEET 1 OF 7

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.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
1	INITIAL RELEASE		

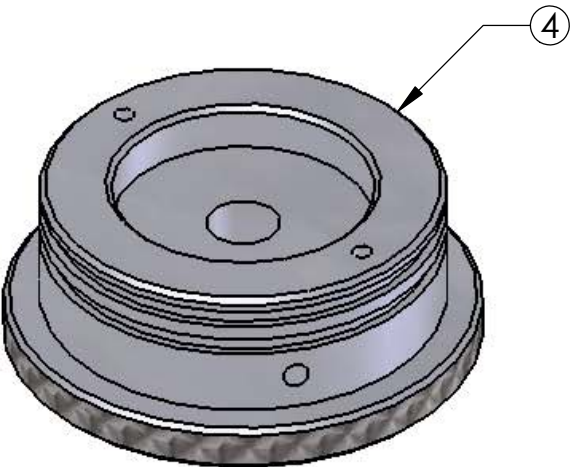
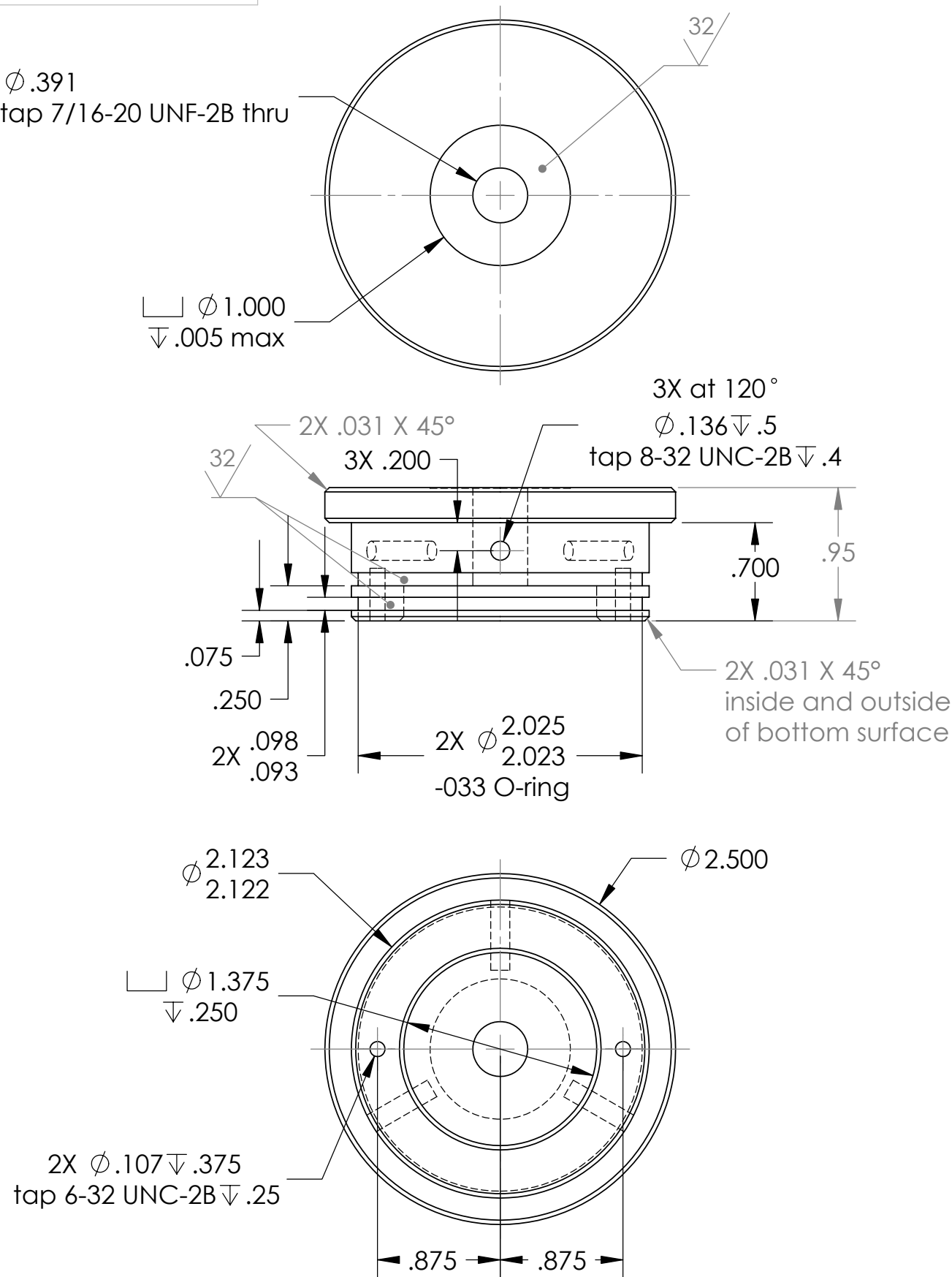






THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MBARI. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF MBARI IS PROHIBITED.

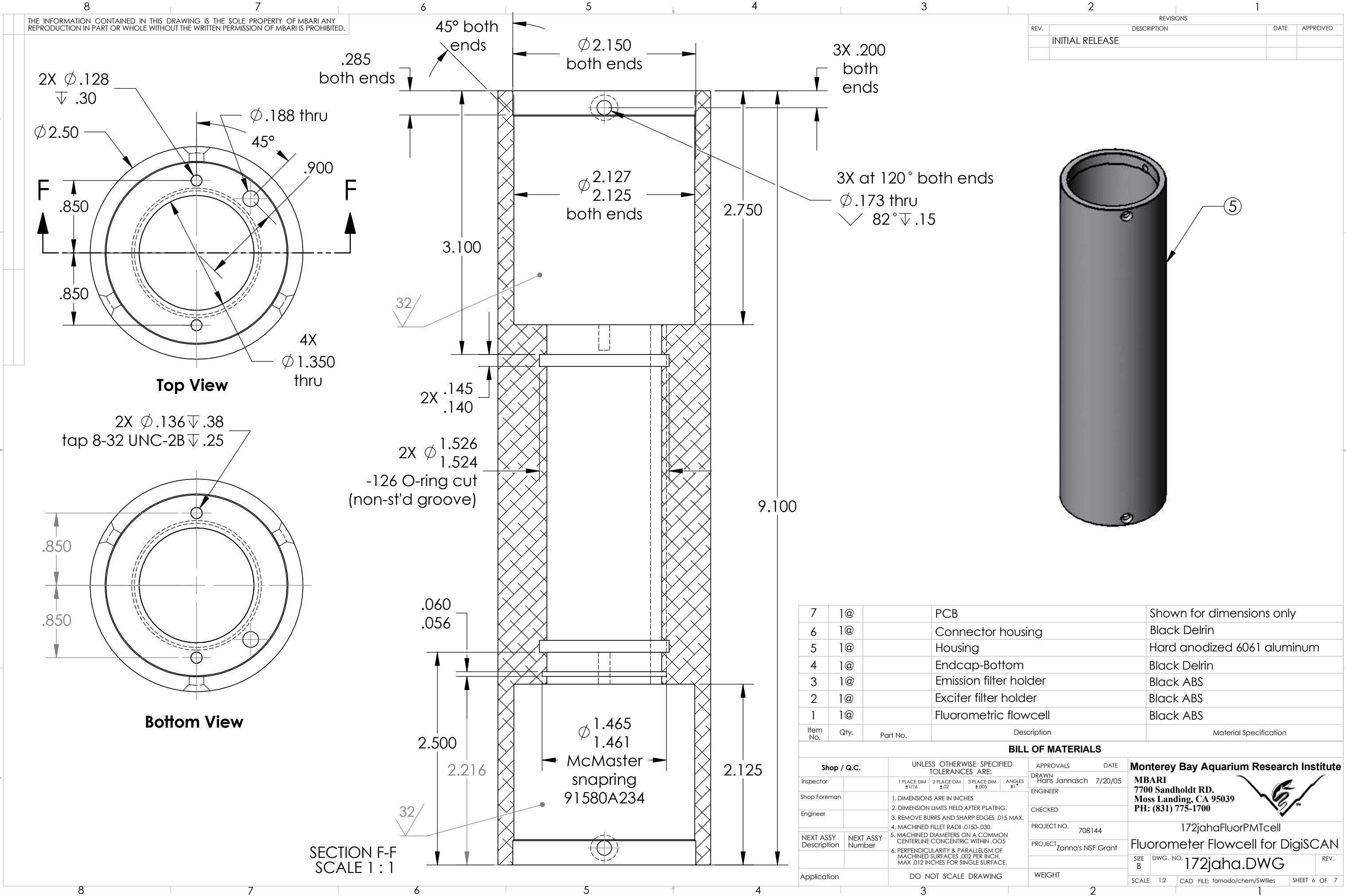
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		



7	1@		PCB	Shown for dimensions only
6	1@		Connector housing	Black Delrin
5	1@		Housing	Hard anodized 6061 aluminum
4	1@		Endcap-Bottom	Black Delrin
3	1@		Emission filter holder	Black ABS
2	1@		Exciter filter holder	Black ABS
1	1@		Fluorometric flowcell	Black ABS
Item No.	Qty.	Part No.	Description	Material Specification

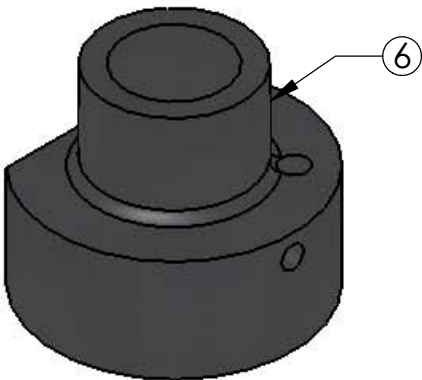
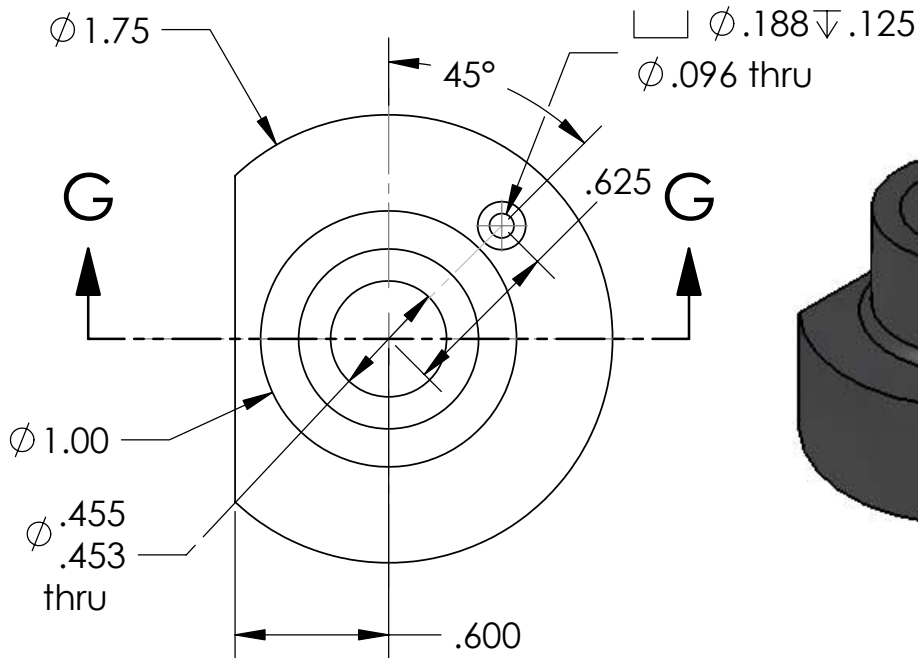
BILL OF MATERIALS									
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE	
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN Hans Jannasch	7/20/05		
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .0150-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH MAX .012 INCHES FOR SINGLE SURFACE.				ENGINEER		Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700 	
Engineer						CHECKED			
NEXT ASSY Description	NEXT ASSY Number					PROJECT NO. 708144			
						PROJECT Zanna's NSF Grant			
Application		DO NOT SCALE DRAWING				WEIGHT			

SIZE B		DWG. NO. 172jaha.DWG		REV.	
SCALE	2:1	CAD FILE:	tornado/chem/SWfiles	SHEET 5	OF 7

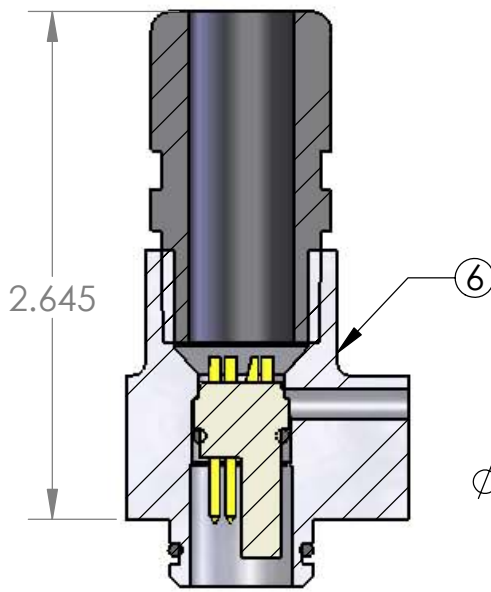


THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MBARI. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF MBARI IS PROHIBITED.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		

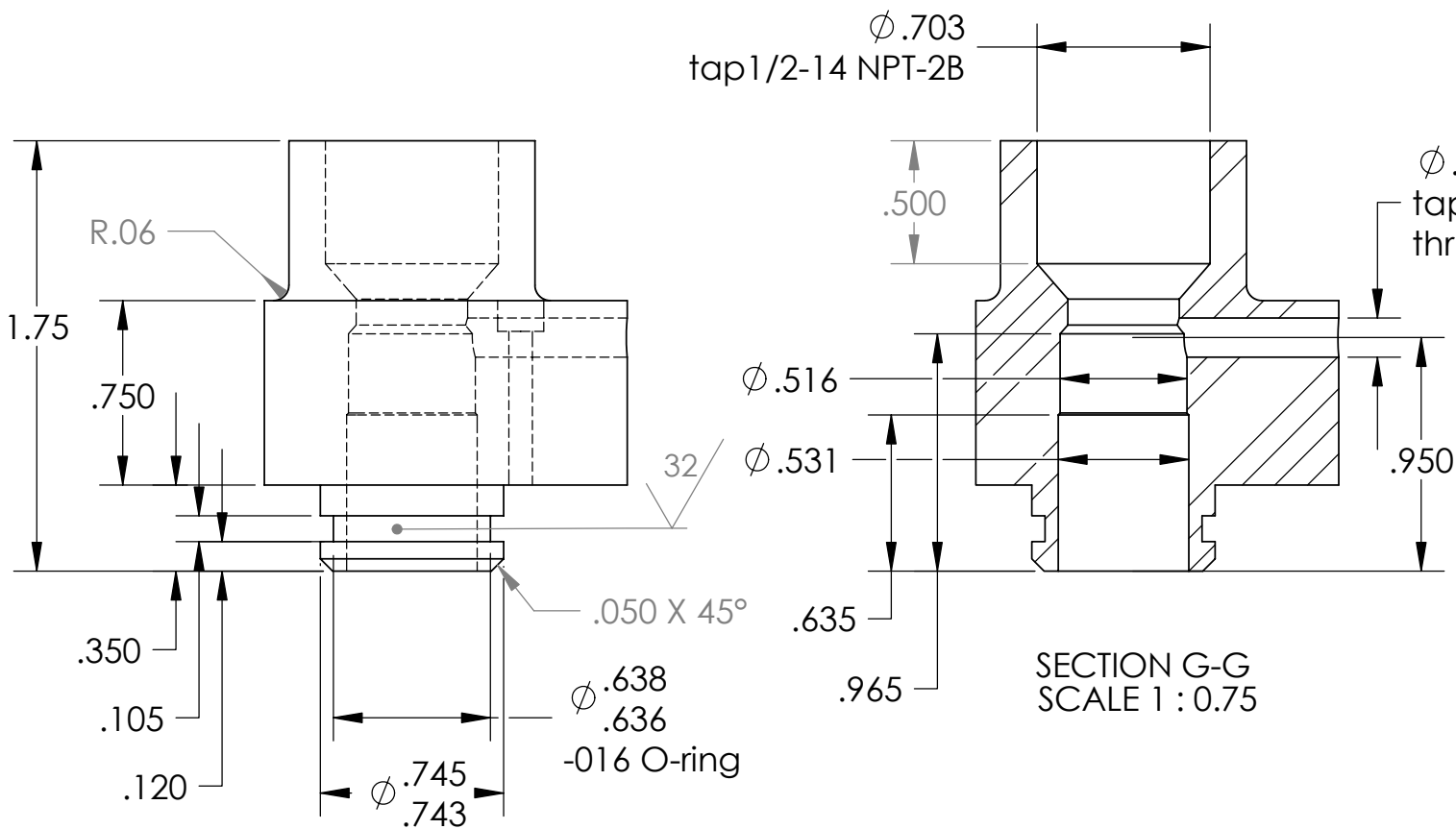
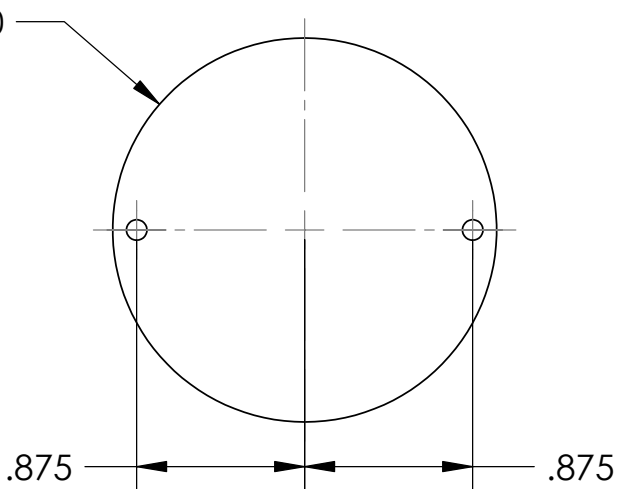
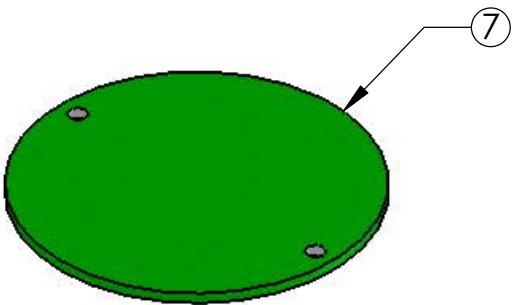


Assembly



Assembled Section

This part shown for dimensions only



SECTION G-G
SCALE 1 : 0.75

NOTE: These O-ring dimensions non-standard (per YSI)

7	1@		PCB	Shown for dimensions only
6	1@		Connector housing	Black Delrin
5	1@		Housing	Hard anodized 6061 aluminum
4	1@		Endcap-Bottom	Black Delrin
3	1@		Emission filter holder	Black ABS
2	1@		Exciter filter holder	Black ABS
1	1@		Fluorometric flowcell	Black ABS
Item No.	Qty.	Part No.	Description	Material Specification

BILL OF MATERIALS

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 $\pm .02$	3 PLACE DIM $\pm .005$	ANGLES $\pm 1^\circ$	DRAWN	7/20/05	MBARI		
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .0150-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.				Hans Jannasch		7700 Sandholdt RD.		
Engineer						ENGINEER		Moss Landing, CA 95039		
NEXT ASSY Description	NEXT ASSY Number					CHECKED		PH: (831) 775-1700		
Application						PROJECT NO.	708144	172jahaFluorPMTcell		
		DO NOT SCALE DRAWING				PROJECT	Zanna's NSF Grant	Fluorometer Flowcell for DigiSCAN		
		WEIGHT				SIZE	B	DWG. NO.	172jaha.DWG	REV.
						SCALE	1:1	CAD FILE:	tornado/chem/SWfiles	SHEET 7 OF 7