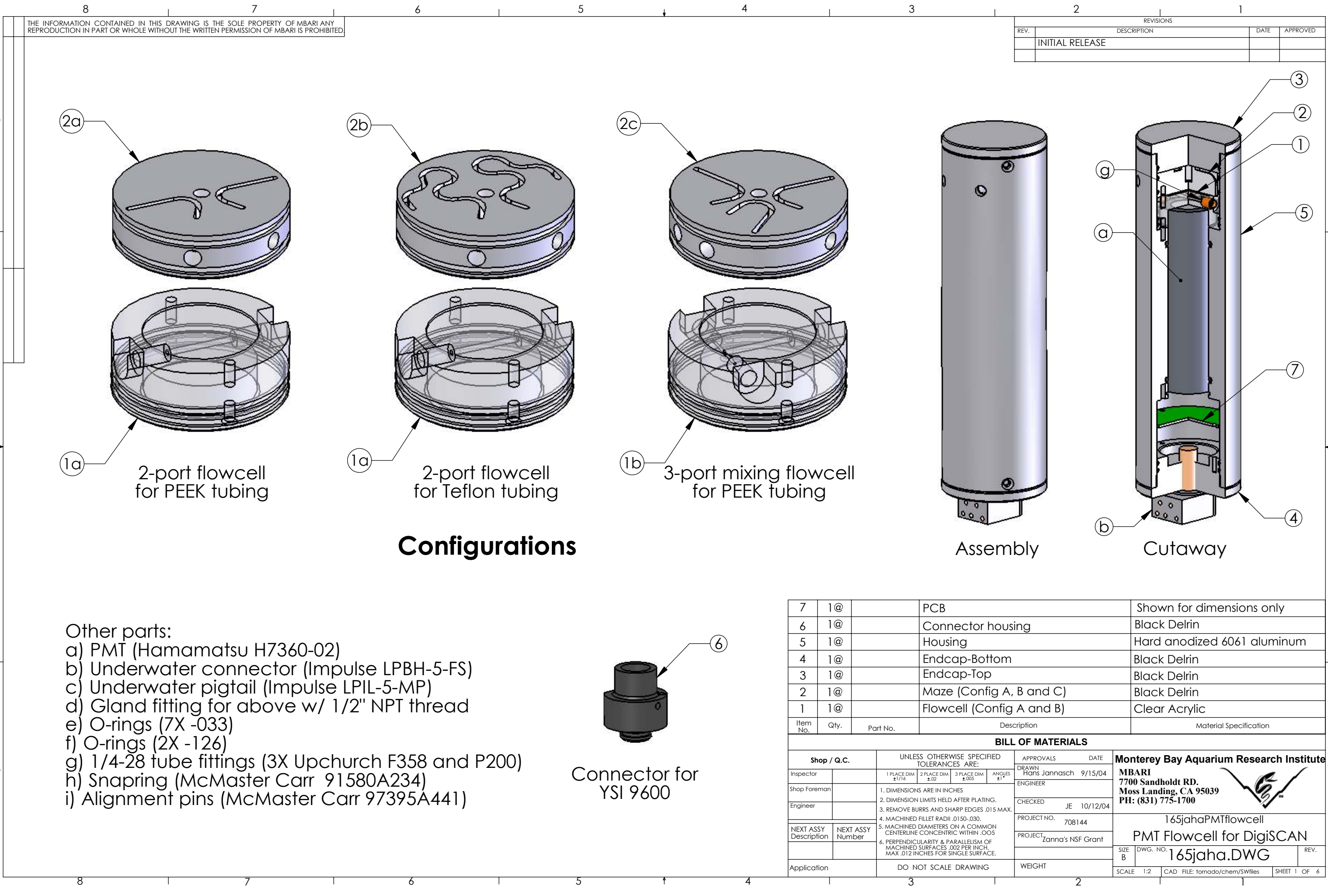
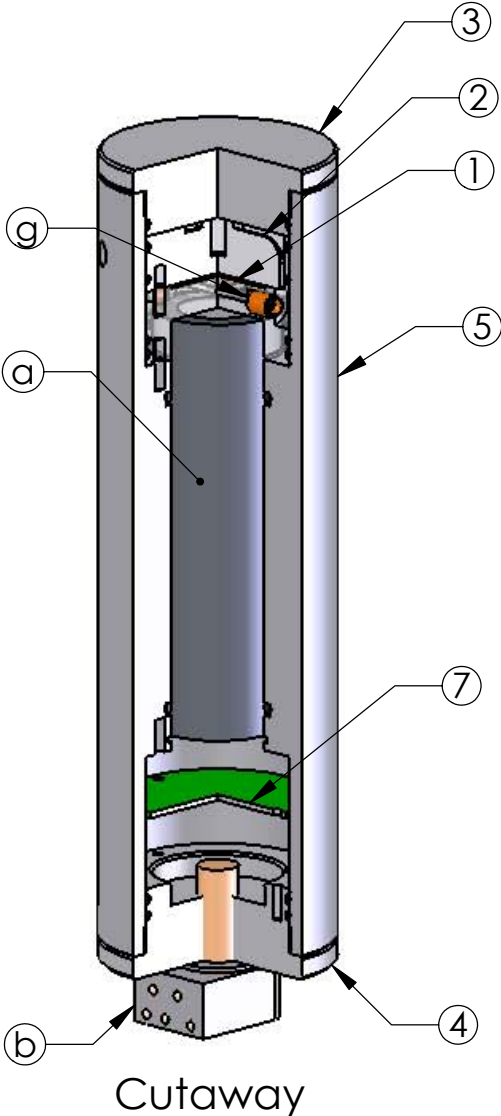
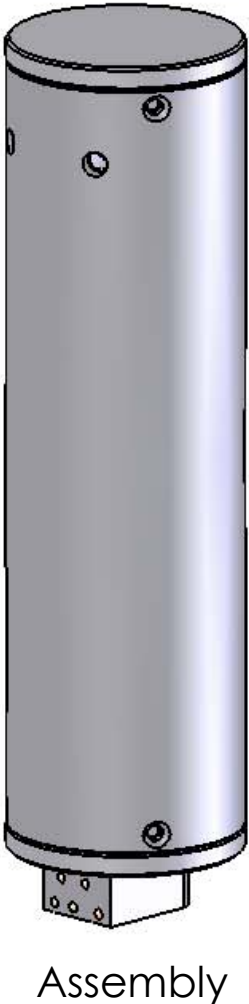
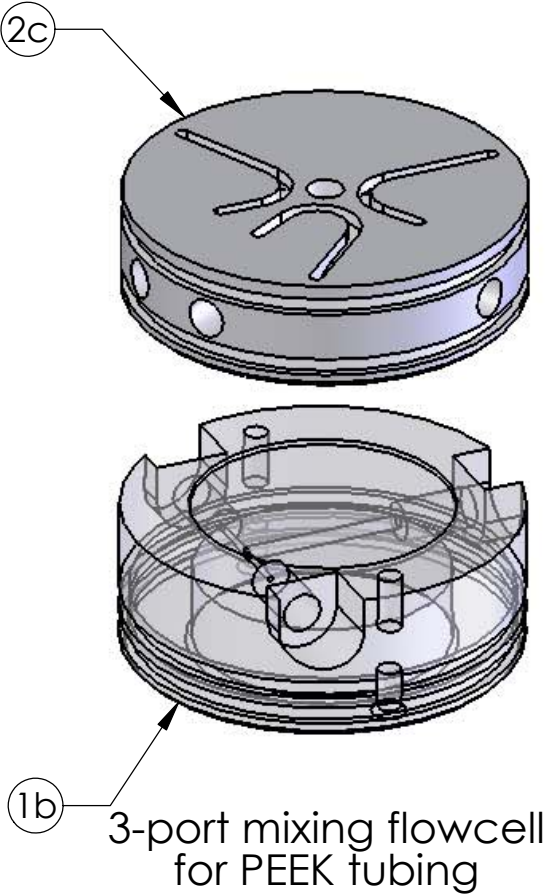
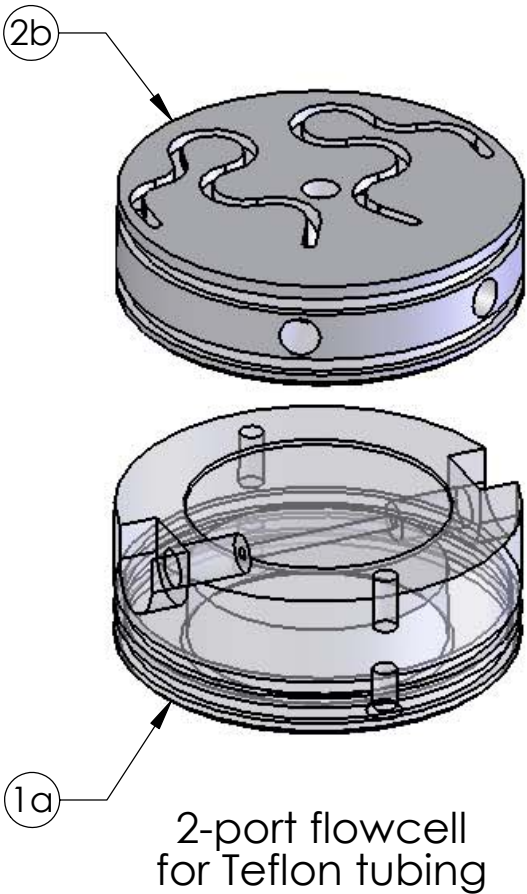
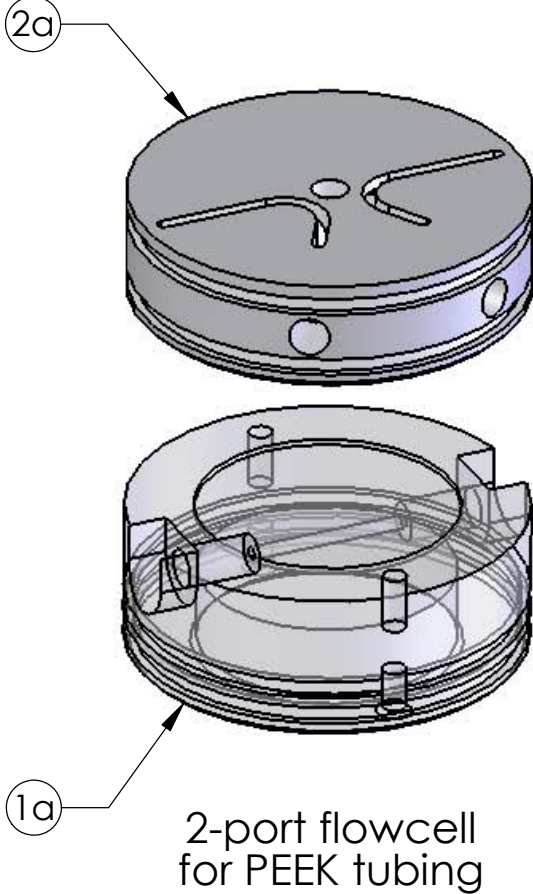




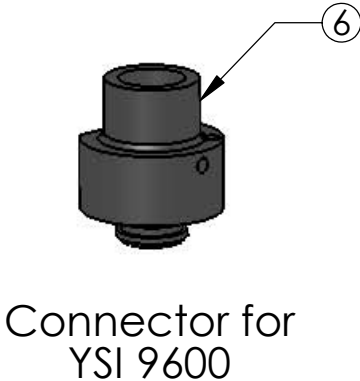
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	INITIAL RELEASE		



Configurations

- Other parts:
- a) PMT (Hamamatsu H7360-02)
 - b) Underwater connector (Impulse LPBH-5-FS)
 - c) Underwater pigtail (Impulse LPIL-5-MP)
 - d) Gland fitting for above w/ 1/2" NPT thread
 - e) O-rings (7X -033)
 - f) O-rings (2X -126)
 - g) 1/4-28 tube fittings (3X Upchurch F358 and P200)
 - h) Snapping (McMaster Carr 91580A234)
 - i) Alignment pins (McMaster Carr 97395A441)



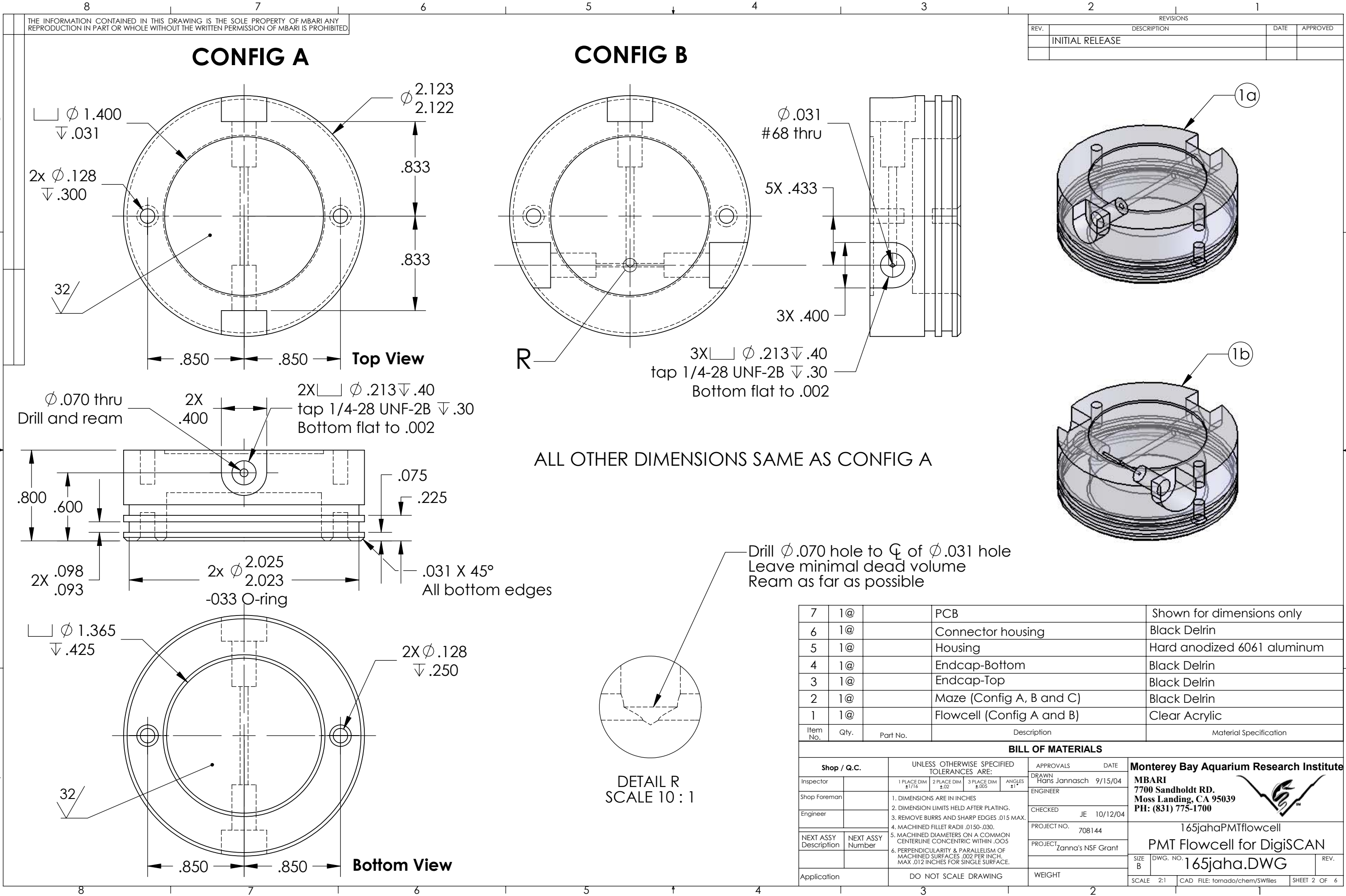
7	1@		PCB	Shown for dimensions only
6	1@		Connector housing	Black Delrin
5	1@		Housing	Hard anodized 6061 aluminum
4	1@		Endcap-Bottom	Black Delrin
3	1@		Endcap-Top	Black Delrin
2	1@		Maze (Config A, B and C)	Black Delrin
1	1@		Flowcell (Config A and B)	Clear Acrylic
Item No.	Qty.	Part No.	Description	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	DRAWN Hans Jannasch 9/15/04
Shop Foreman		3 PLACE DIM ±.005	ANGLES ±1°	ENGINEER
Engineer		1. DIMENSIONS ARE IN INCHES		CHECKED JE 10/12/04
NEXT ASSY Description	NEXT ASSY Number	2. DIMENSION LIMITS HELD AFTER PLATING.		PROJECT NO. 708144
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.		PROJECT Zanna's NSF Grant
		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.		
Application		DO NOT SCALE DRAWING		WEIGHT
			SCALE 1:2	CAD FILE: tornado/chem/SWfiles
			SHEET 1 OF 6	

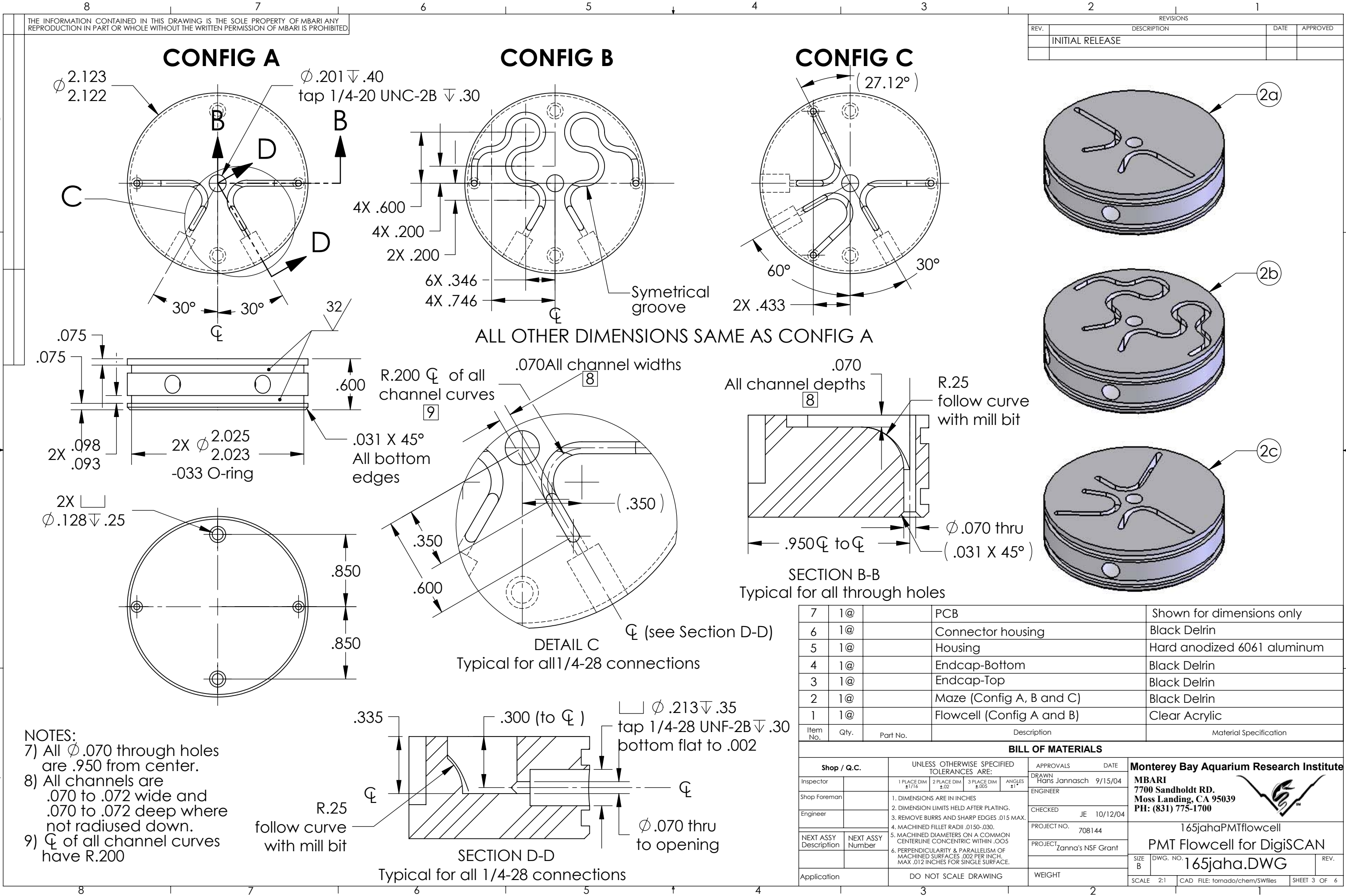
Monterey Bay Aquarium Research Institute

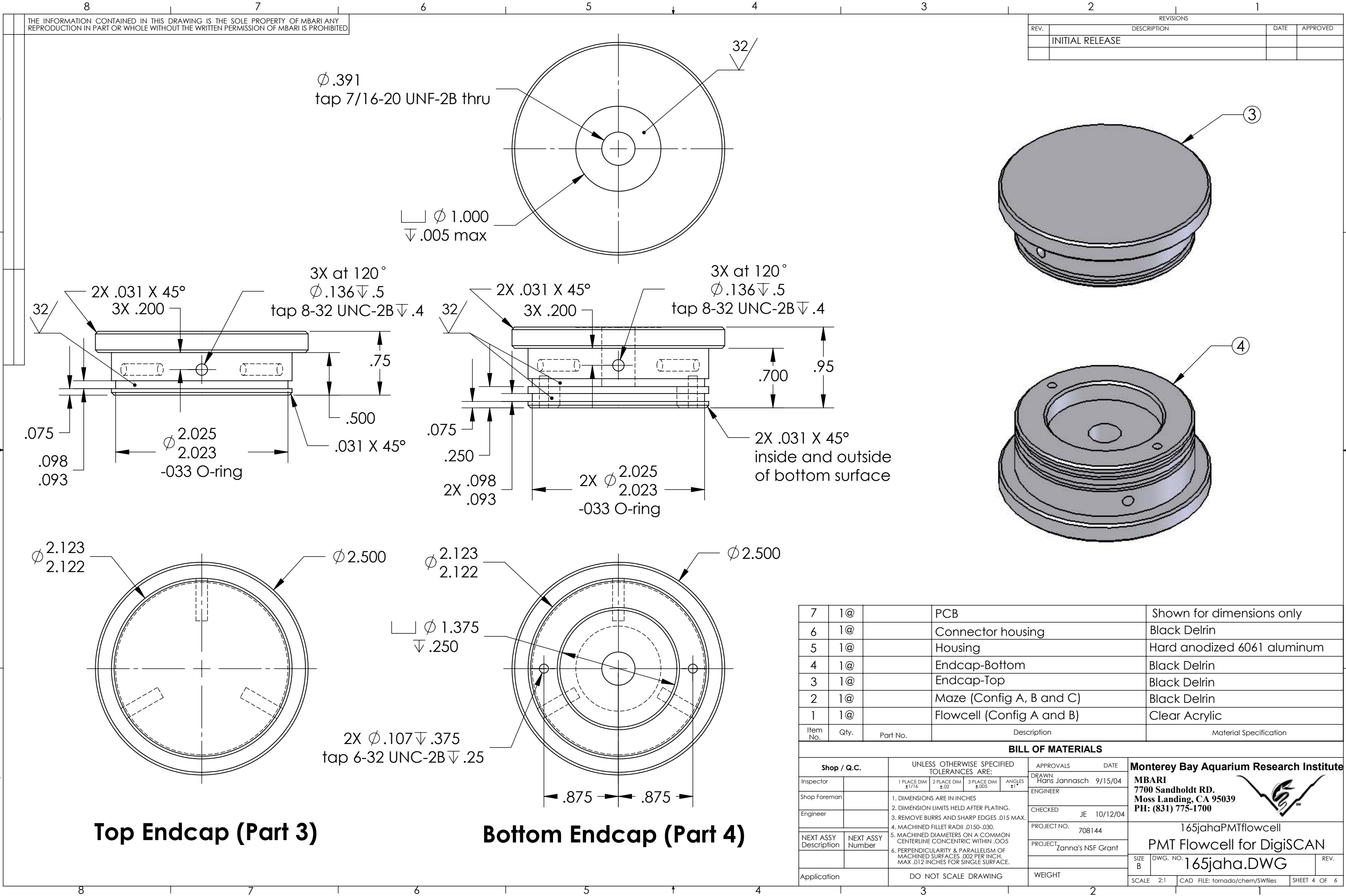
MBARI
7700 Sandholdt RD.
Moss Landing, CA 95039
PH: (831) 775-1700

165jahaPMTflowcell
PMT Flowcell for DigiSCAN

165jaha.DWG



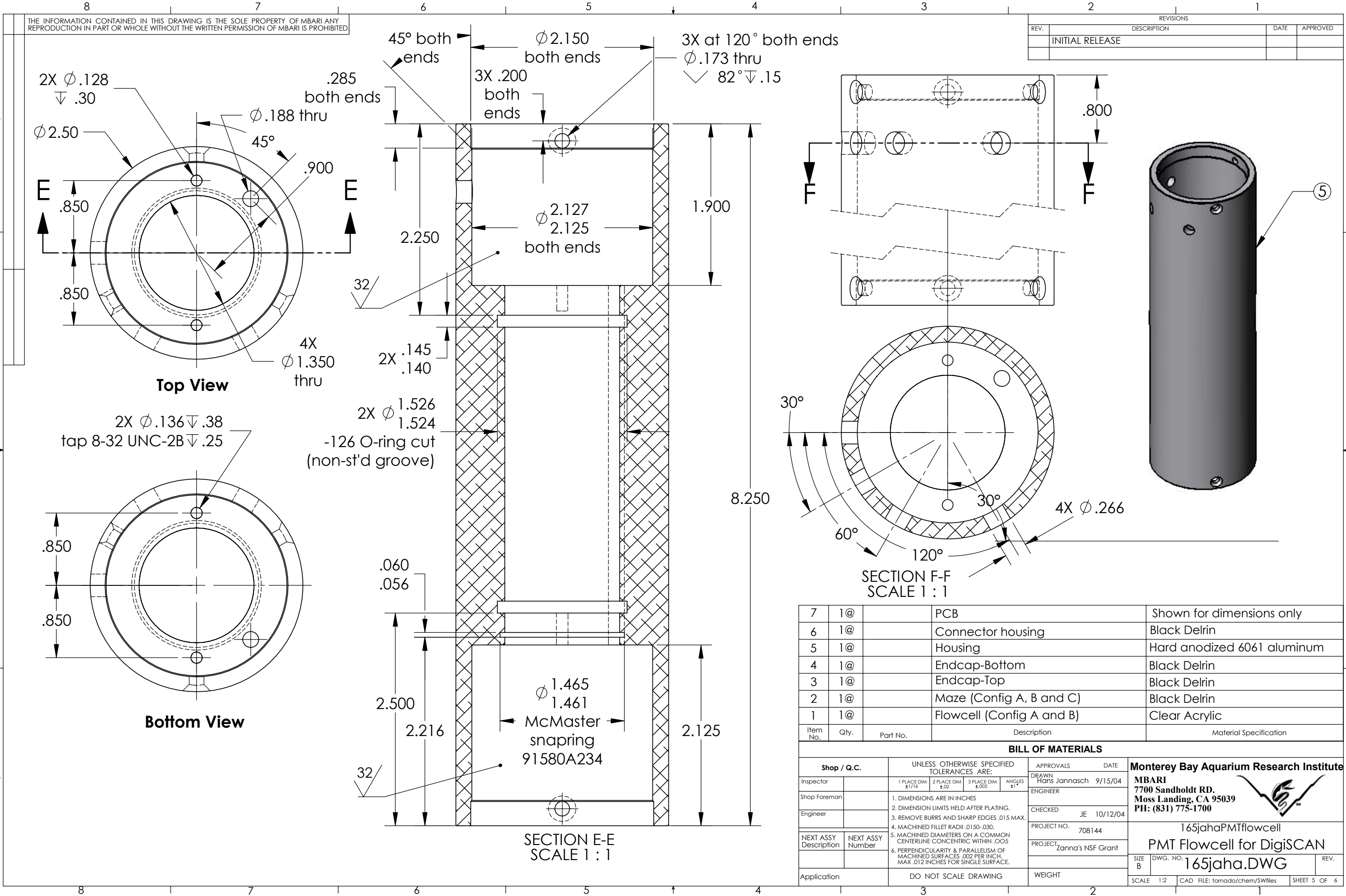




REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		

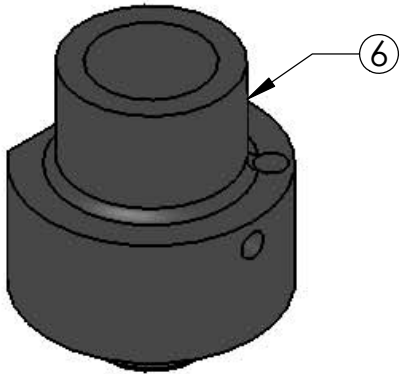
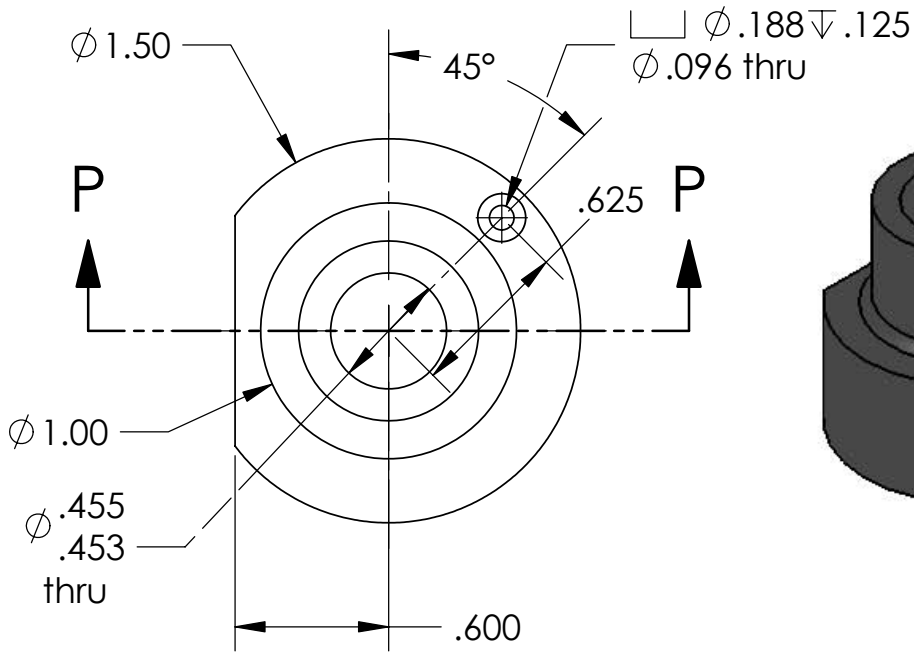
7	1@		PCB	Shown for dimensions only
6	1@		Connector housing	Black Delrin
5	1@		Housing	Hard anodized 6061 aluminum
4	1@		Endcap-Bottom	Black Delrin
3	1@		Endcap-Top	Black Delrin
2	1@		Maze (Config A, B and C)	Black Delrin
1	1@		Flowcell (Config A and B)	Clear Acrylic
Item No.	Qty.	Part No.	Description	Material Specification

BILL OF MATERIALS			
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:	
Inspector		1 PLACE DIM $\pm 1/16$	2 PLACE DIM $\pm .02$
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 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.	
NEXT ASSY Description	NEXT ASSY Number	APPROVALS	
		DATE	
		DRAWN Hans Jannasch 9/15/04	
		ENGINEER	
		CHECKED JE 10/12/04	
		PROJECT NO. 708144	
		PROJECT Zanna's NSF Grant	
		WEIGHT	
Application	DO NOT SCALE DRAWING	Monterey Bay Aquarium Research Institute	
		MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700	
		165jahaPMTflowcell	
		PMT Flowcell for DigiSCAN	
		165jaha.DWG	
		REV.	
		SCALE 2:1	
		CAD FILE: tornado/chem/SWfiles	
		SHEET 4 OF 6	

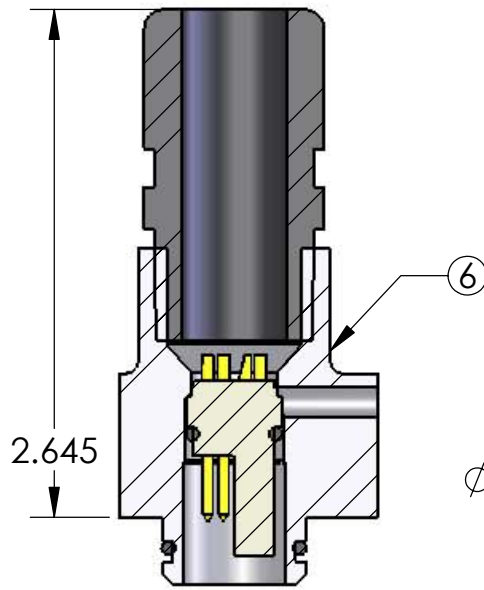


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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		

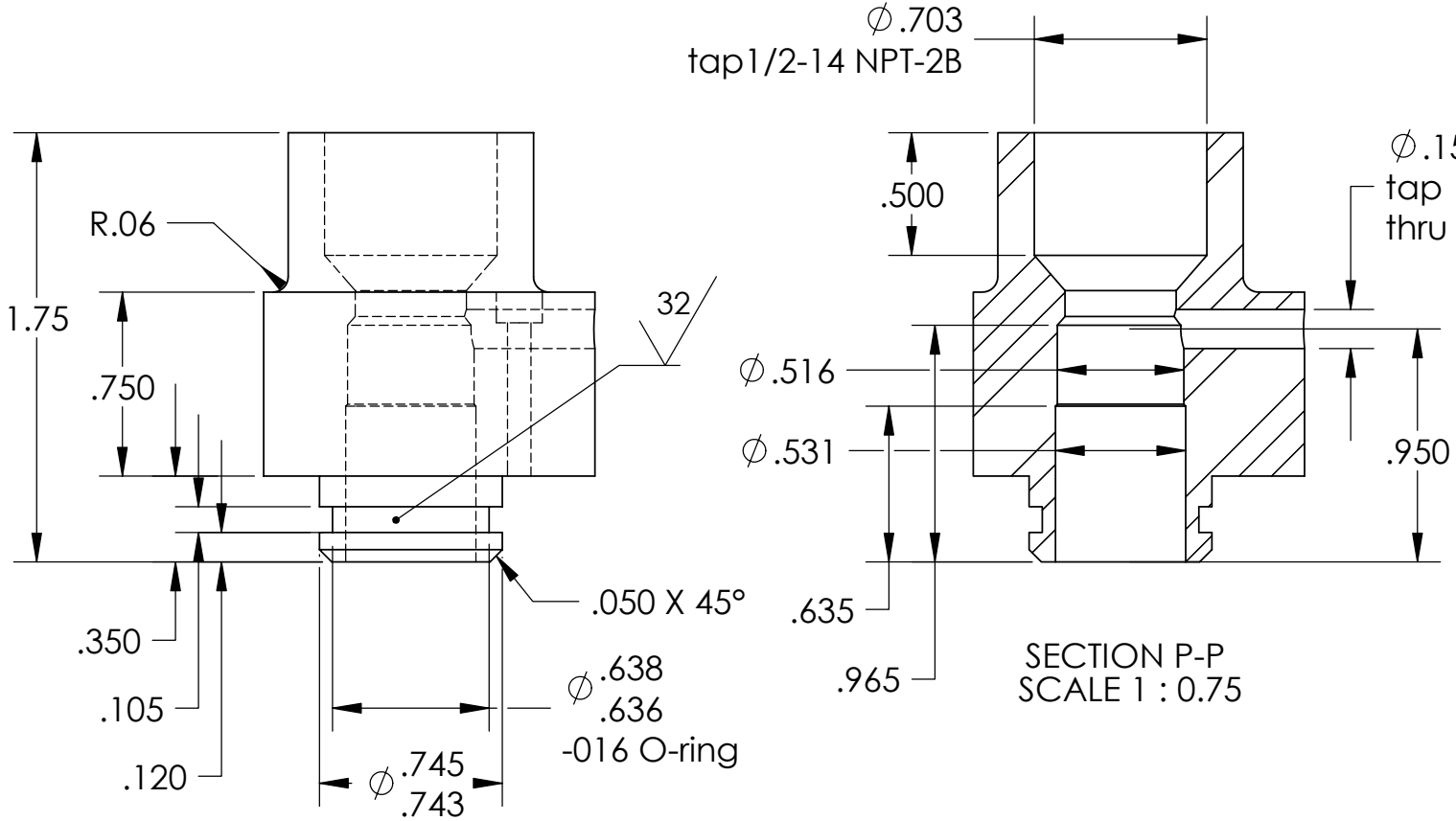
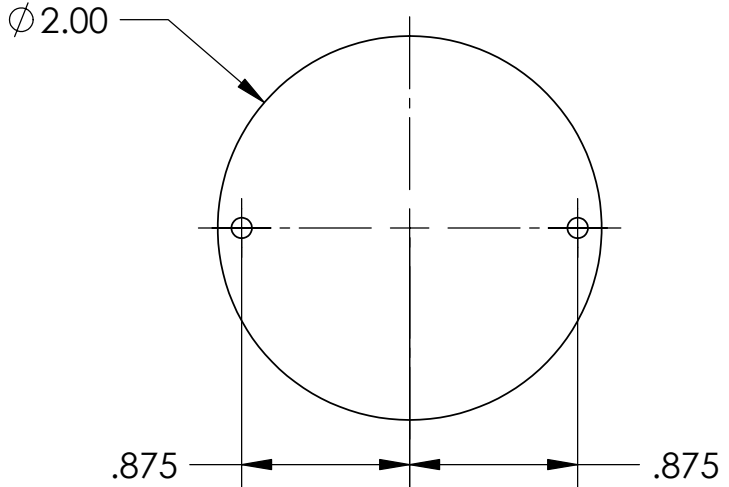
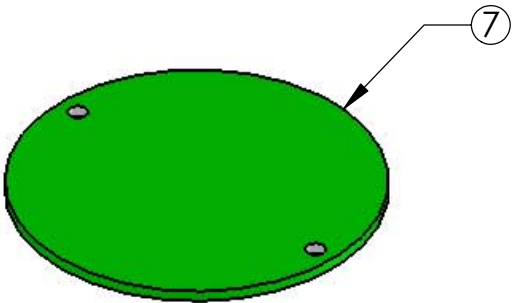


Assembly



Assembled Section

This part shown for dimensions only



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@		Endcap-Top	Black Delrin
2	1@		Maze (Config A, B and C)	Black Delrin
1	1@		Flowcell (Config A and B)	Clear Acrylic
Item No.	Qty.	Part No.	Description	Material Specification

BILL OF MATERIALS			
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:	
Inspector		1 PLACE DIM $\pm 1/16$	2 PLACE DIM $\pm .02$
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 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.	
NEXT ASSY Description	NEXT ASSY Number	APPROVALS DATE	
		DRAWN Hans Jannasch 9/15/04	
		ENGINEER	
		CHECKED JE 10/12/04	
		PROJECT NO. 708144	
		PROJECT Zanna's NSF Grant	
		WEIGHT	
Application	DO NOT SCALE DRAWING	Monterey Bay Aquarium Research Institute	
		MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700	
		165jahaPMTflowcell	
		PMT Flowcell for DigiSCAN	
		SIZE B	DWG. NO. 165jaha.DWG
		SCALE 1:1	REV.
		CAD FILE: tornado/chem/SWfiles	SHEET 6 OF 6