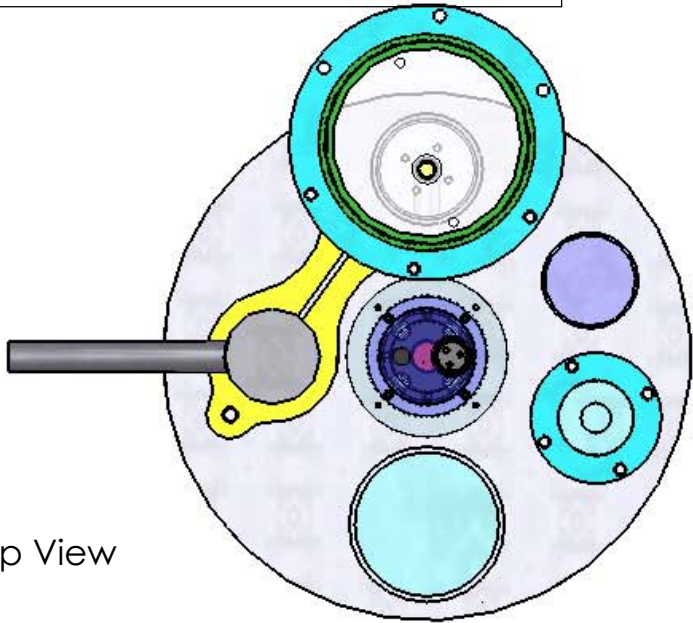
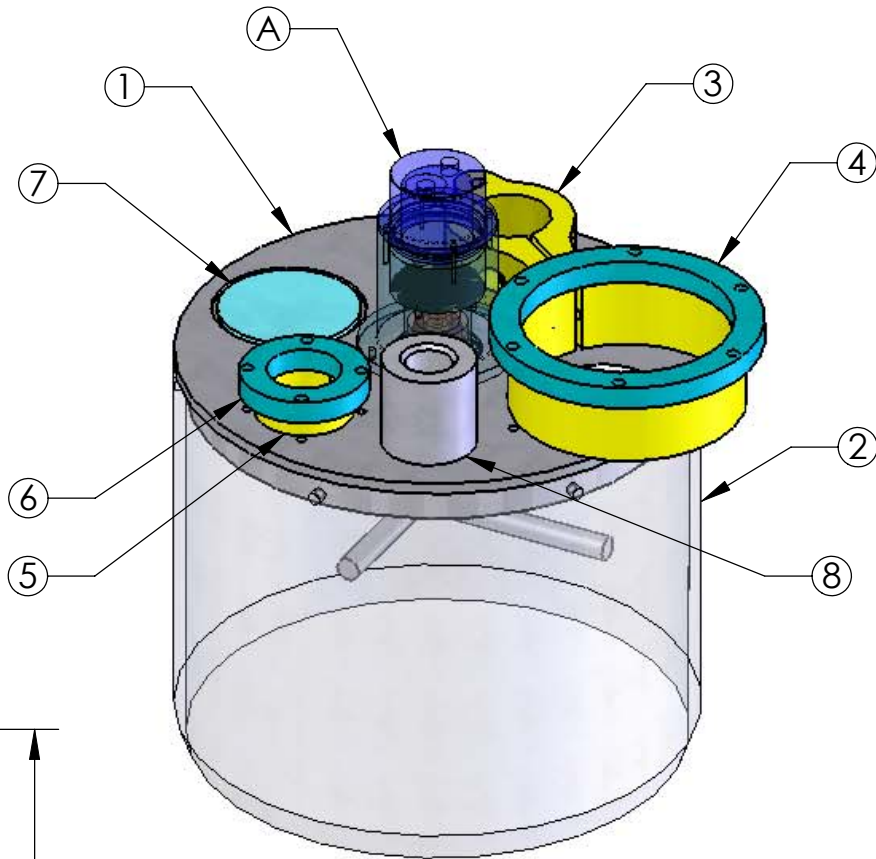


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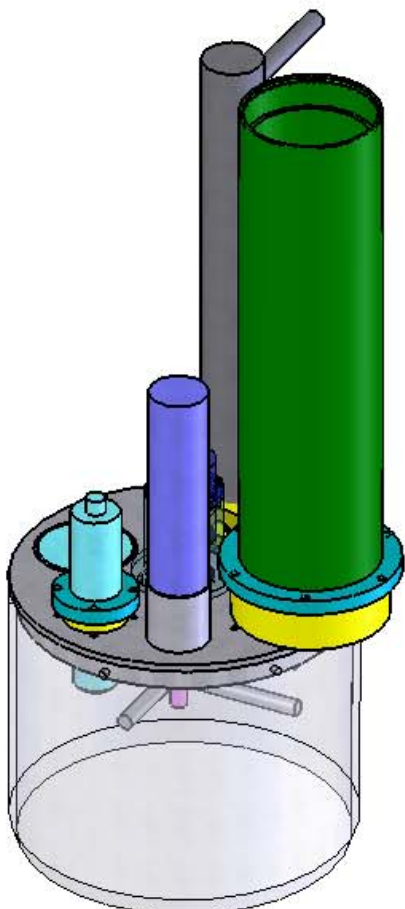
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE	3/28/07	HWJ
A	Modified ISUS clamp	7/16/07	HWJ



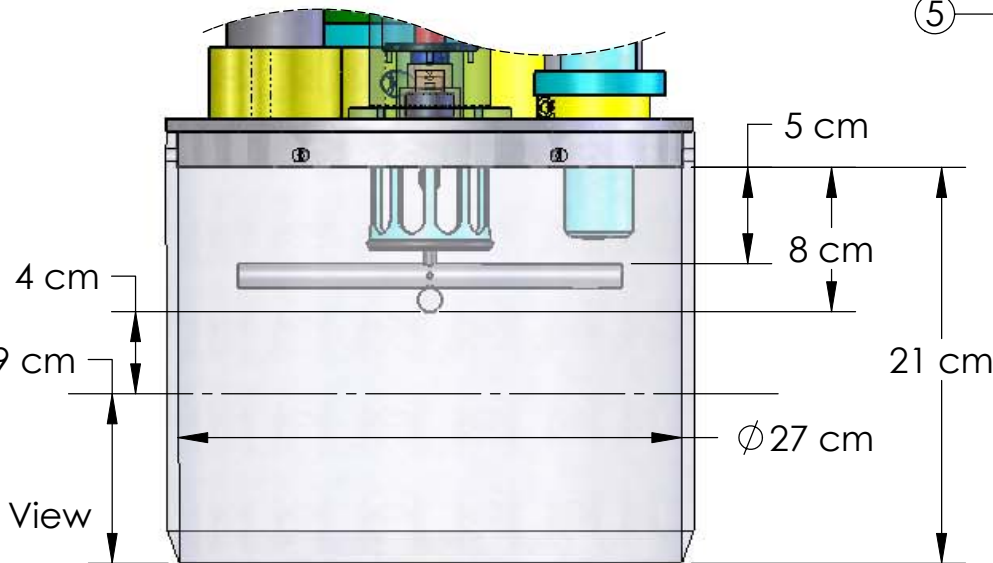
Top View



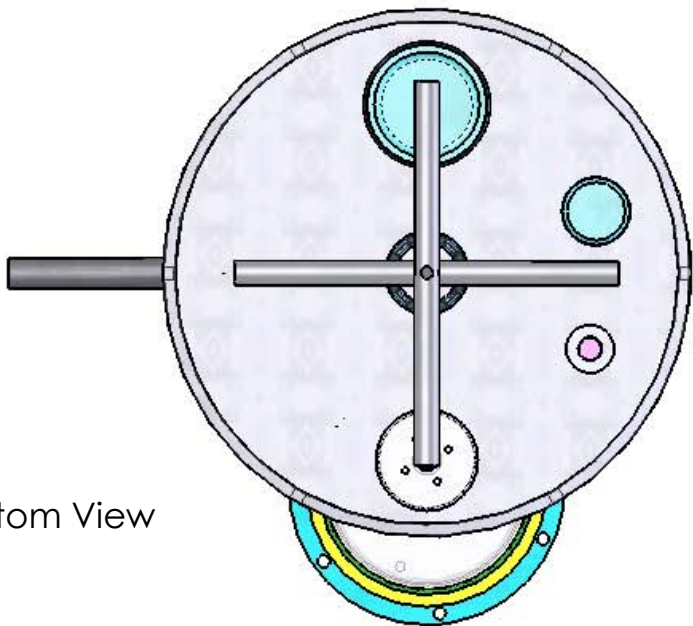
Machined parts Assembly



Full Assembly



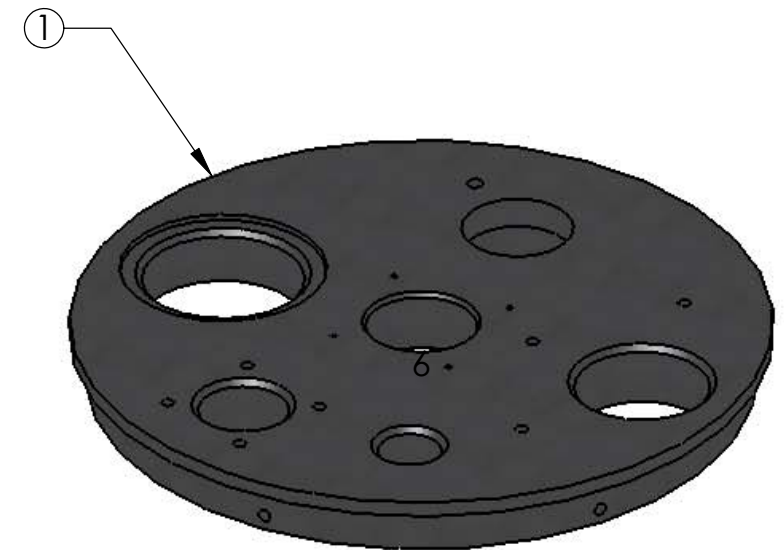
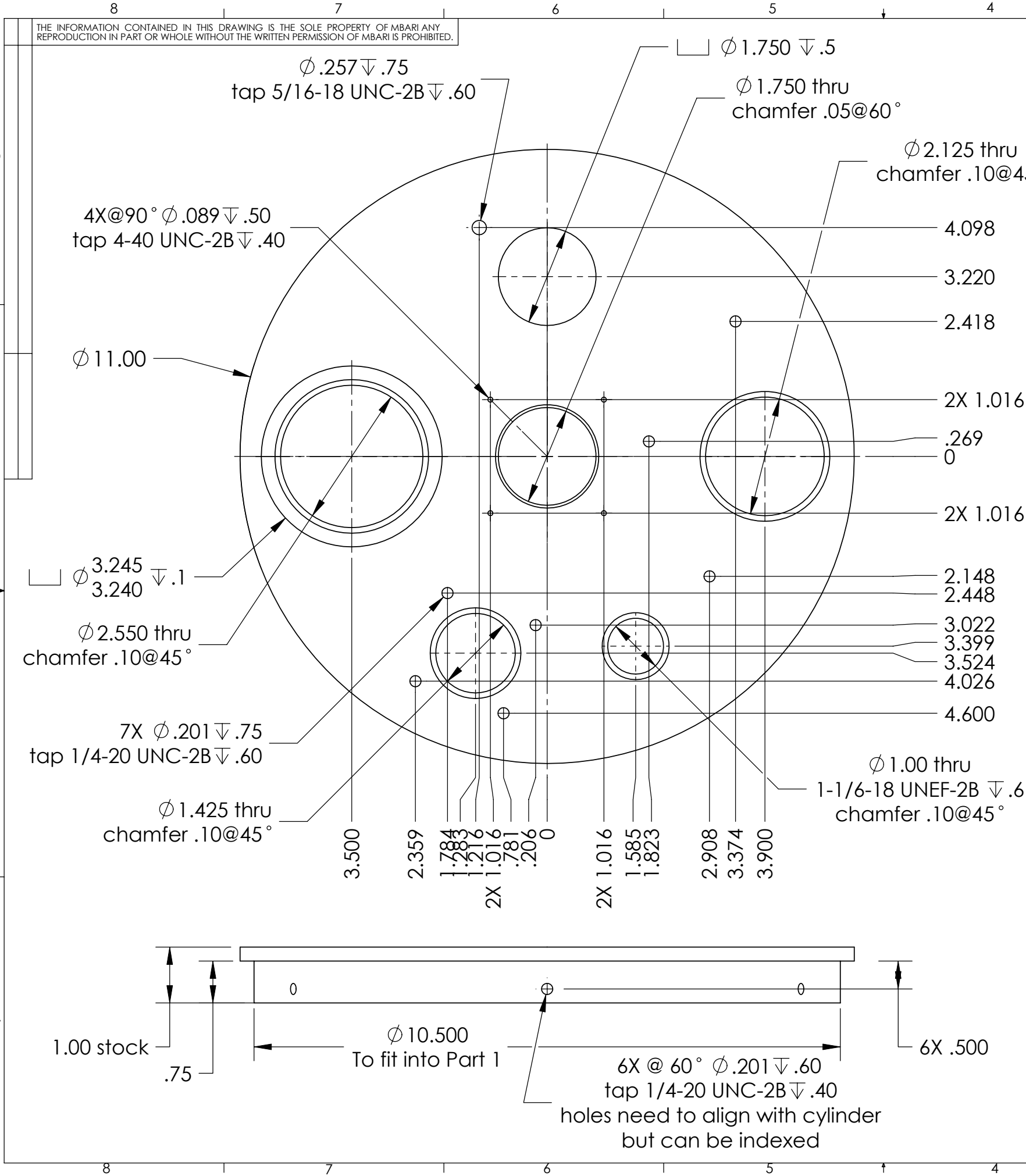
Left View



Bottom View

A	1 assy		Hobson mixer assembly	Delrin base, acrylic top
8	1		SBE18 standoff	Delrin
7	1		Vent	Delrin
6	1		Optode hold down ring	1/2" Delrin
5	1		Optode clamp	1/2" Delrin
4	1		ISUS hold down ring	1/2" Delrin
3	1		ISUS clamp	1.5 in Delrin
2	1		Cylinder	11" OD 3/8" wall acrylic tube
1	1		Top Plate	1 in Delrin
Item No.	Qty	Part No.	Description	Material Specification

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		3/27/07		MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700 			
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							
Engineer										CHECKED							
NEXT ASSY Description										NEXT ASSY Number		PROJECT NO.					
						PROJECT		Novel Sensors		190jaha_BenthicChamber							
										Benthic Chamber							
										SIZE B		DWG. NO.		190jaha.DWG		REV. A	
Application		DO NOT SCALE DRAWING								WEIGHT		SCALE 1:8		CAD FILE: tornado/chem/SWfiles		SHEET 1 OF 3	



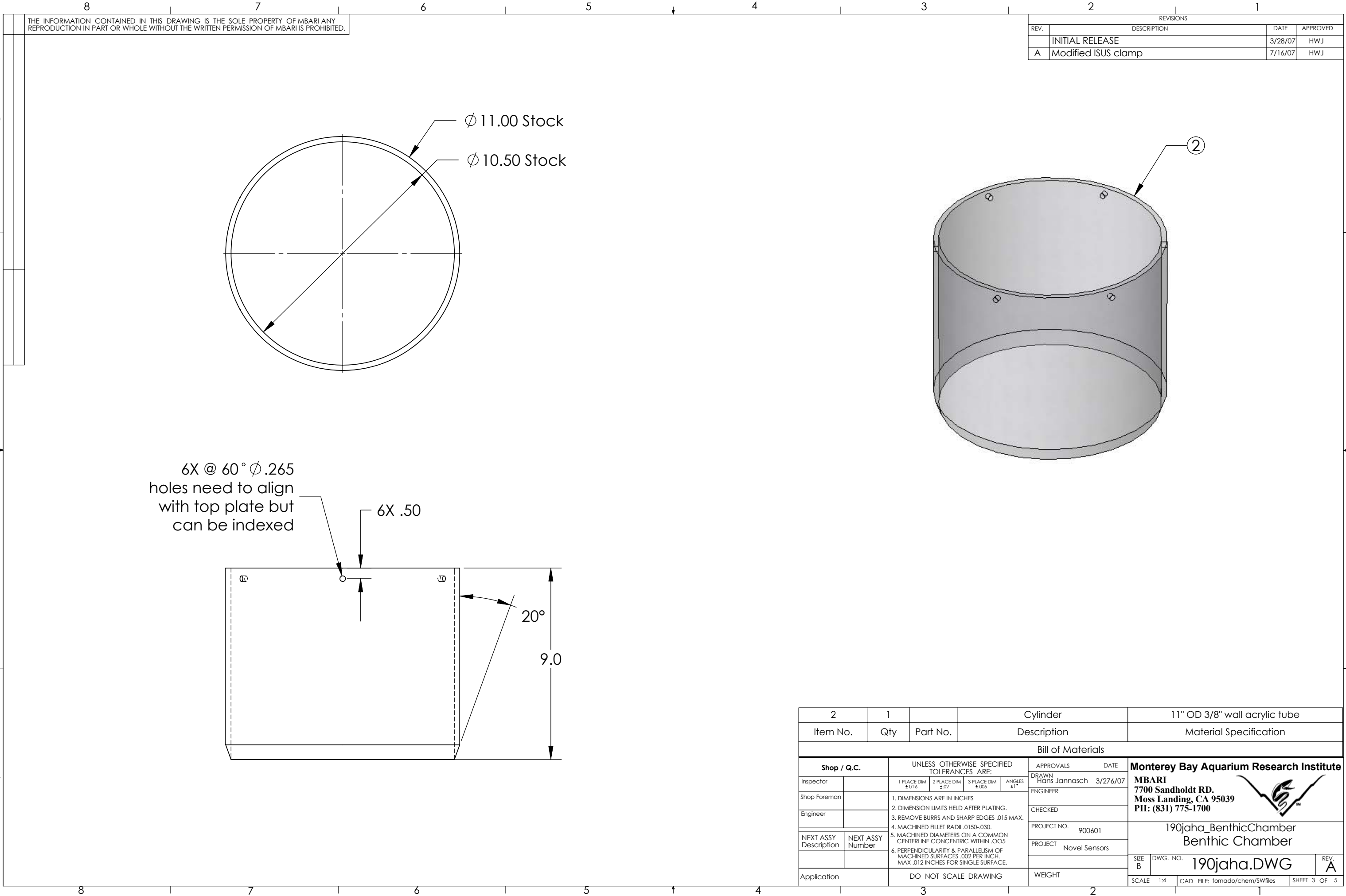
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE	3/28/07	HWJ
A	Modified ISUS clamp	7/16/07	HWJ

1		1		Top Plate		1 in Delrin				
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		3/276/07		
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.		900601				190jaha_BenthicChamber Benthic Chamber
				PROJECT		Novel Sensors				
Application		DO NOT SCALE DRAWING			WEIGHT		SIZE B	DWG. NO.	190jaha.DWG	REV. A
		3			2		SCALE 1:4	CAD FILE: tornado/chem/SWfiles	SHEET 2 OF 5	

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Moss Landing, CA 95039
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190jaha_BenthicChamber
Benthic Chamber

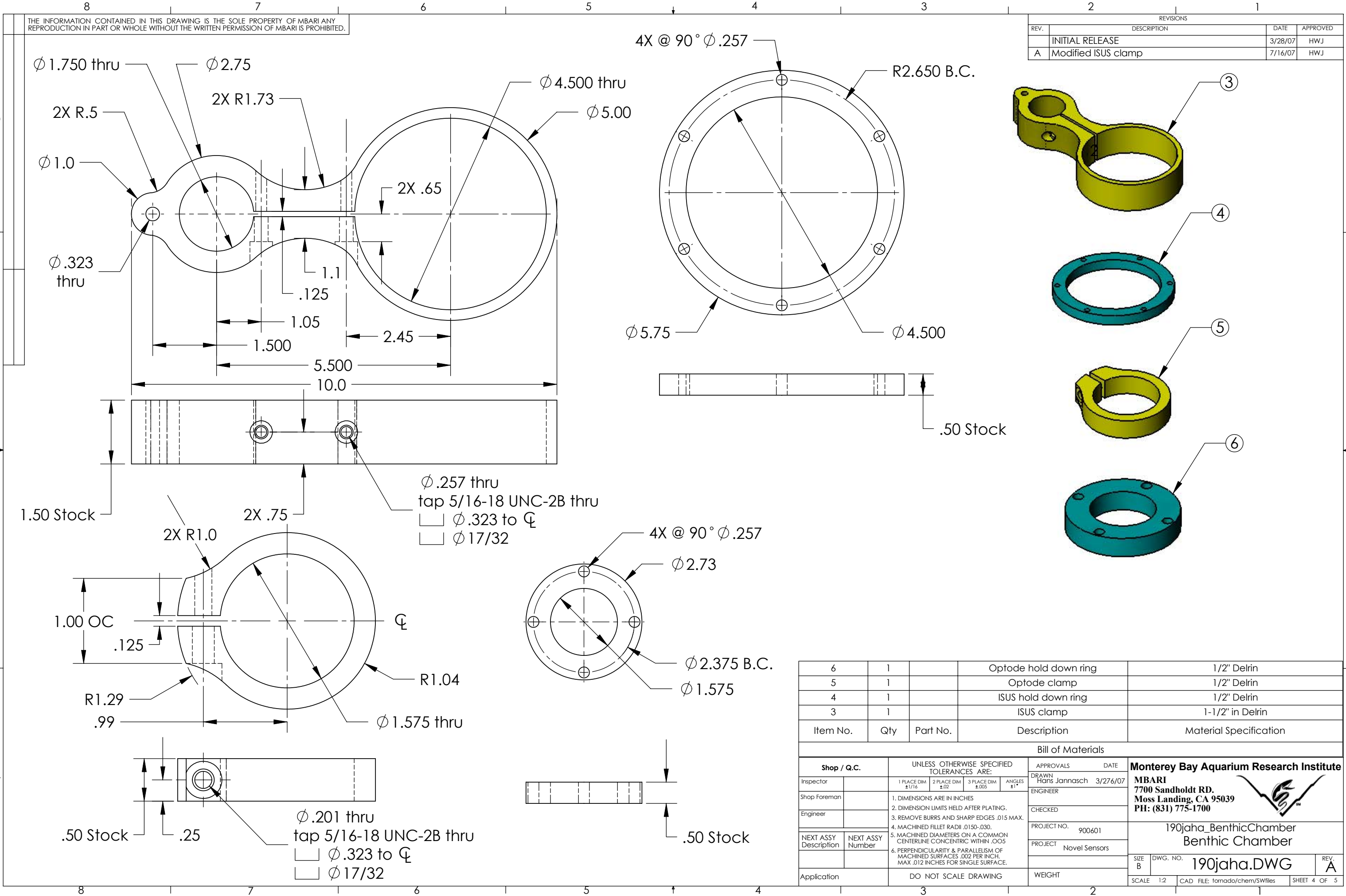
SIZE B DWG. NO. 190jaha.DWG REV. A



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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE	3/28/07	HWJ
A	Modified ISUS clamp	7/16/07	HWJ

2	1		Cylinder	11" OD 3/8" wall acrylic tube					
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 3/276/07	Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700		
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			
Engineer						CHECKED			
NEXT ASSY Description	NEXT ASSY Number					PROJECT NO. 900601	190jaha_BenthicChamber Benthic Chamber		
						PROJECT Novel Sensors			
							SIZE B	DWG. NO. 190jaha.DWG	REV. A
Application		DO NOT SCALE DRAWING		WEIGHT		SCALE 1:4	CAD FILE: tornado/chem/SWfiles	SHEET 3 OF 5	



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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE	3/28/07	HWJ
A	Modified ISUS clamp	7/16/07	HWJ

6	1		Optode hold down ring	1/2" Delrin
5	1		Optode clamp	1/2" Delrin
4	1		ISUS hold down ring	1/2" Delrin
3	1		ISUS clamp	1-1/2" in Delrin
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
Shop Foreman		1. DIMENSIONS ARE IN INCHES		DRAWN Hans Jannasch 3/276/07
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.		ENGINEER
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.		CHECKED
		4. MACHINED FILLET RADII .0150-.030.		PROJECT NO. 900601
NEXT ASSY Description	NEXT ASSY Number	5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005		PROJECT Novel Sensors
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.		
Application		DO NOT SCALE DRAWING	WEIGHT	SIZE B DWG. NO. 190jaha.DWG
				SCALE 1:2 CAD FILE: tornado/chem/SWfiles
				REV. A
				SHEET 4 OF 5

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190jaha_BenthicChamber
Benthic Chamber

SIZE B DWG. NO. 190jaha.DWG REV. A

