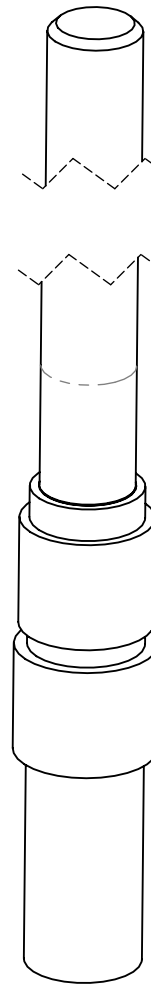
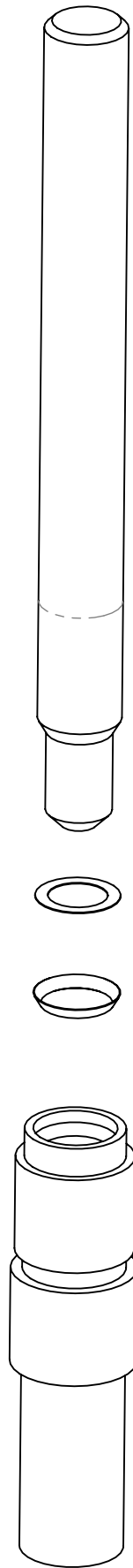
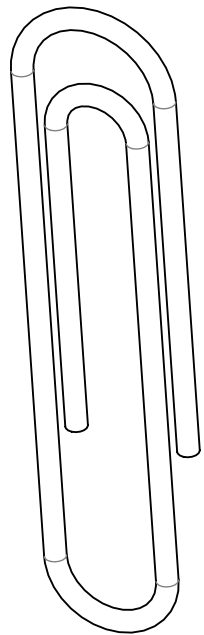


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REVISIONS

INITIAL RELEASE

X/XX/01	
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5	1	HPO171, REV1j-Mod2	Lens Holder		C-Technologies	Titanium 6AL-4V
4	1		stainless paper clip			
3	1	P-201311-12	Swage Tool Pin	A	MBARI	17-4ph S.S (H900)
2	1	P-200542-08	Copper Foil Washer (CDA110)	-	McMaster-Carr	Copper (CDA110) ETP
1	1	P-200542-08	Copper Foil Washer (CDA110)	-	McMaster-Carr	Copper (CDA110) ETP
ITEM NO.	Default/Higher assembly QTY.	Part Number	DESCRIPTION	Revision	Vendor	MATERIAL

BILL OF MATERIALS

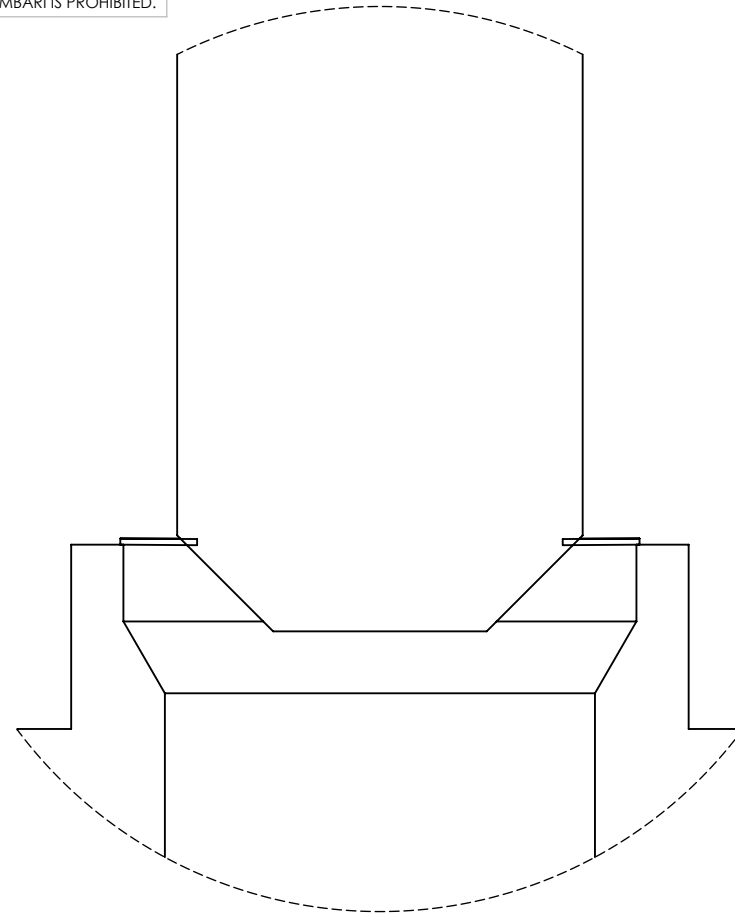
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE		Monterey Bay Aquarium Research Institute			
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN	J. ERICKSON			2/14/11			
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 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	J. ERICKSON			2/14/11			
Engineer						CHECKED							
						PROJECT NO.	900918						
NEXT ASSY Description	NEXT ASSY Number					PROJECT	CHEM SENSORS						
Application		DO NOT SCALE DRAWING				WEIGHT	0.01						
						SIZE B	DWG. NO.		A-200xxx-11.DWG			REV.	
						SCALE	1:1	CAD FILE: MECH ENG ON TORNADO		SHEET 1		OF 3	

7. PROJECT LIBRARY:\ChemSensors\JonE\APEX-ISUS LENS-MOD

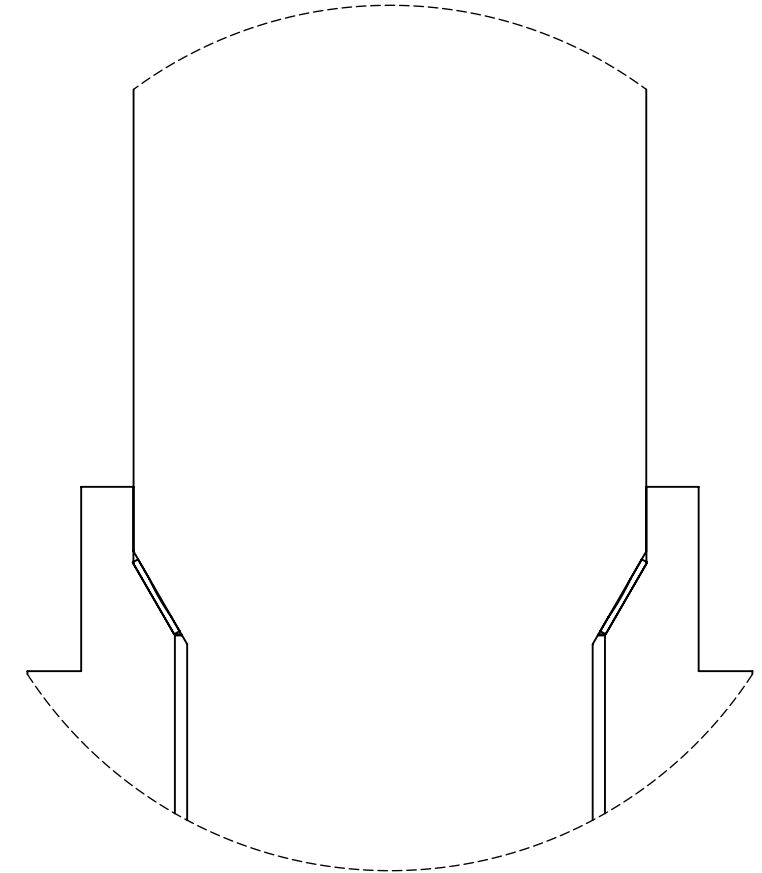
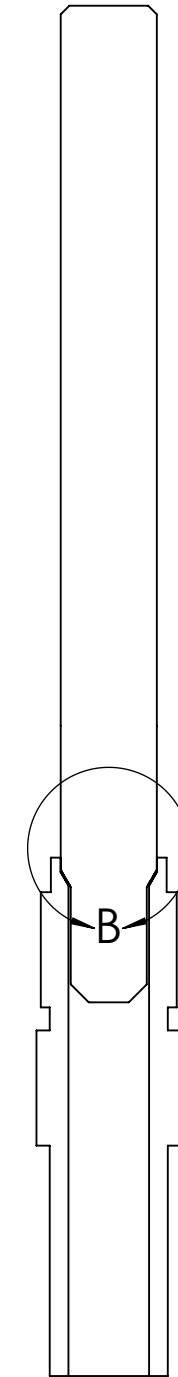
NOTES: (CONT. FROM TITLE BLOCK)

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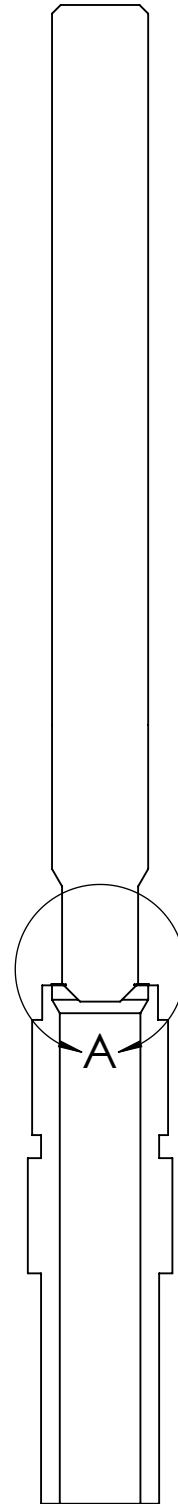
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE	X/XX/00	J.E.



DETAIL A
SCALE 16 : 1



DETAIL B
SCALE 16 : 1



A

7. PROJECT LIBRARY:\ChemSensors\JonE\APEX-ISUS LENS-MOD

NOTES: (CONT. FROM TITLE BLOCK)

3	1	HPO171, REV1j-Mod2	Lens Holder		C-Technologies	Titanium 6AL-4V
2	1	P-201311-12	Swage Tool Pin	A	MBARI	17-4ph S.S (H900)
1	1	P-200542-08	Copper Foil Washer (CDA110)	-	McMaster-Carr	Copper (CDA110) ETP
ITEM NO.	Seated/QTY.	Part_Number	DESCRIPTION	Revision	Vendor	MATERIAL

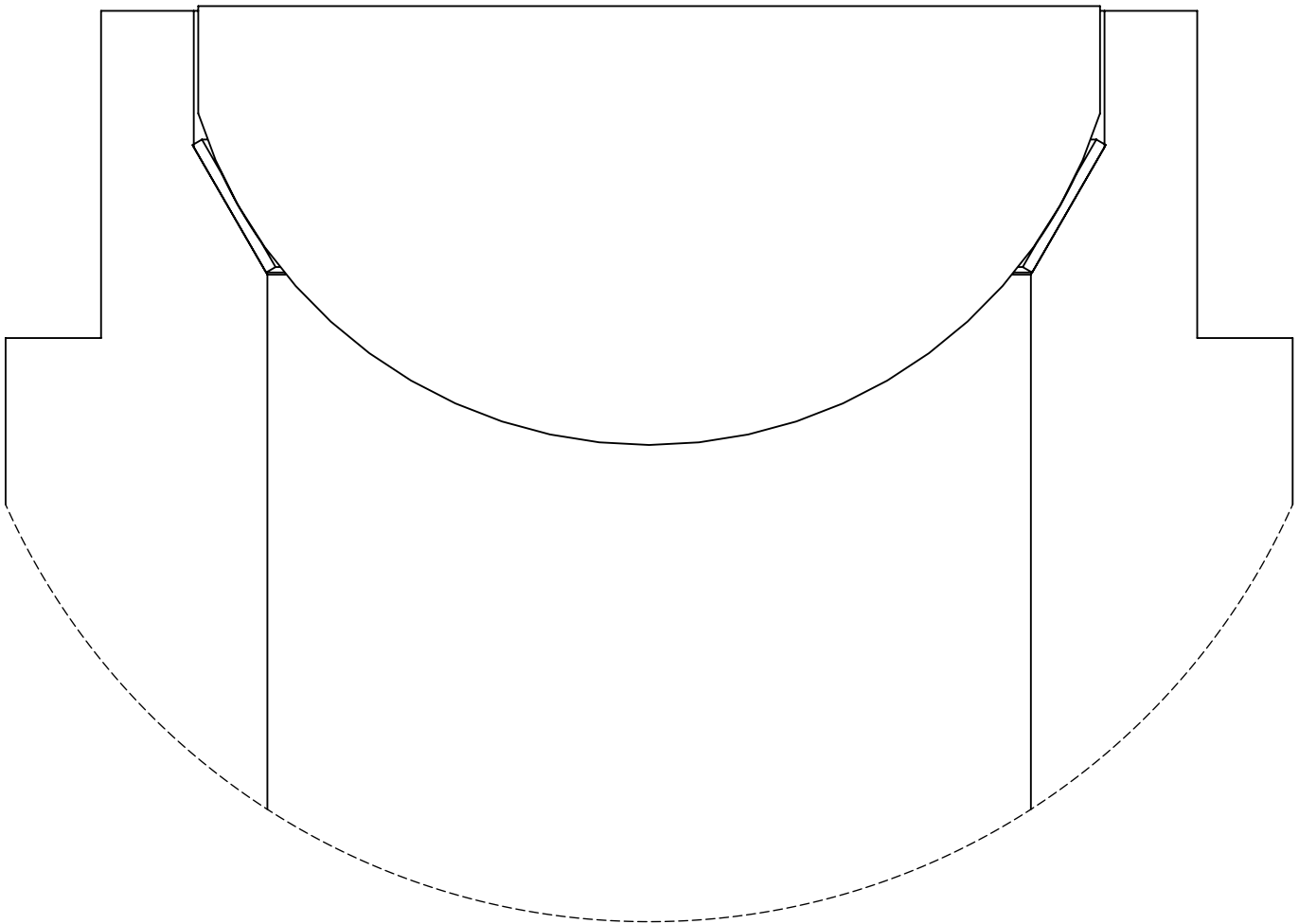
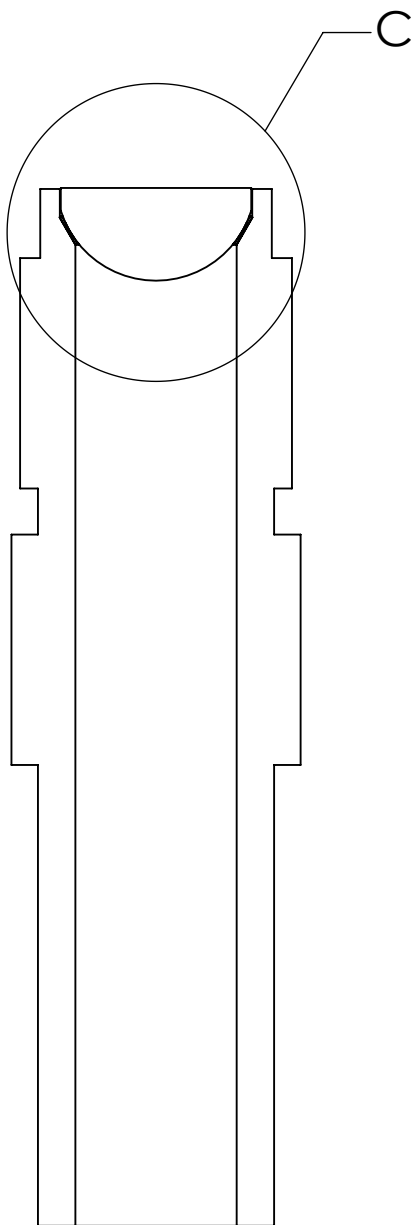
BILL OF MATERIALS

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	J. ERICKSON	2/14/11	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.				ENGINEER	J. ERICKSON	2/14/11				
Engineer						CHECKED						
NEXT ASSY Description		NEXT ASSY Number	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.				PROJECT NO.		901217			
							PROJECT		CHEM SENSORS			
Application			DO NOT SCALE DRAWING				WEIGHT		0.01 lb.			
							SIZE		DWG. NO.		REV.	
							B		A-200xxx-11.DWG			
							SCALE		1:1		CAD FILE: MECH ENG ON TORNADO	SHEET 2 OF 3

A

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE	X/XX/00	J.E.



DETAIL C
SCALE 30 : 1

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	J. ERICKSON 2/14/11			
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	J. ERICKSON 2/14/11			
Engineer						CHECKED				
NEXT ASSY Description	NEXT ASSY Number					PROJECT NO.	XXX			
		PROJECT	ZZZZZZZZ							
Application		DO NOT SCALE DRAWING				WEIGHT	0.01 lb.			
Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700  APEX ISUS LENS MOD. Apex/ISUS Lens Copper Foil Swaging Assen						SIZE	DWG. NO.		REV.	
						B	A-200xxx-11.DWG			
						SCALE	1:1	CAD FILE: MECH ENG ON TORNADO	SHEET 3 OF 3	

NOTES: (CONT. FROM TITLE BLOCK)