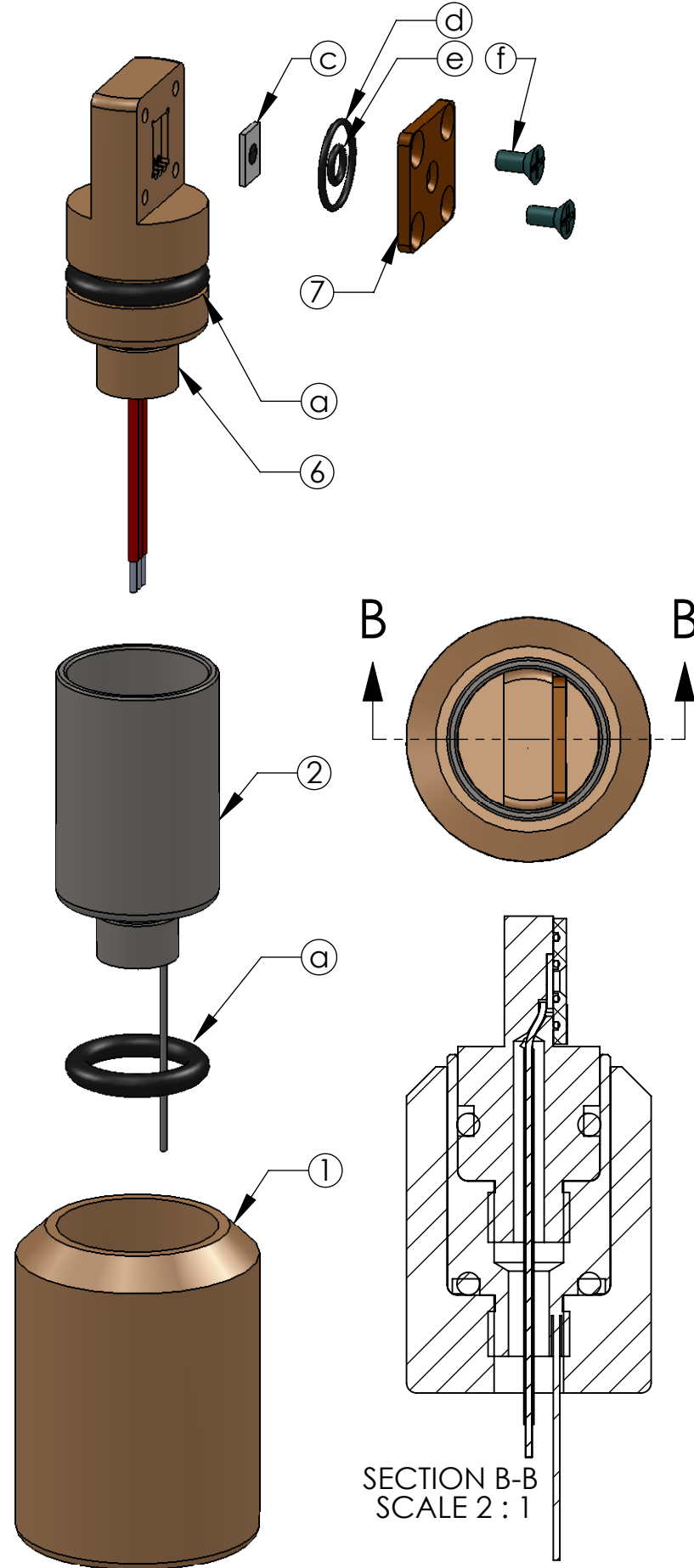
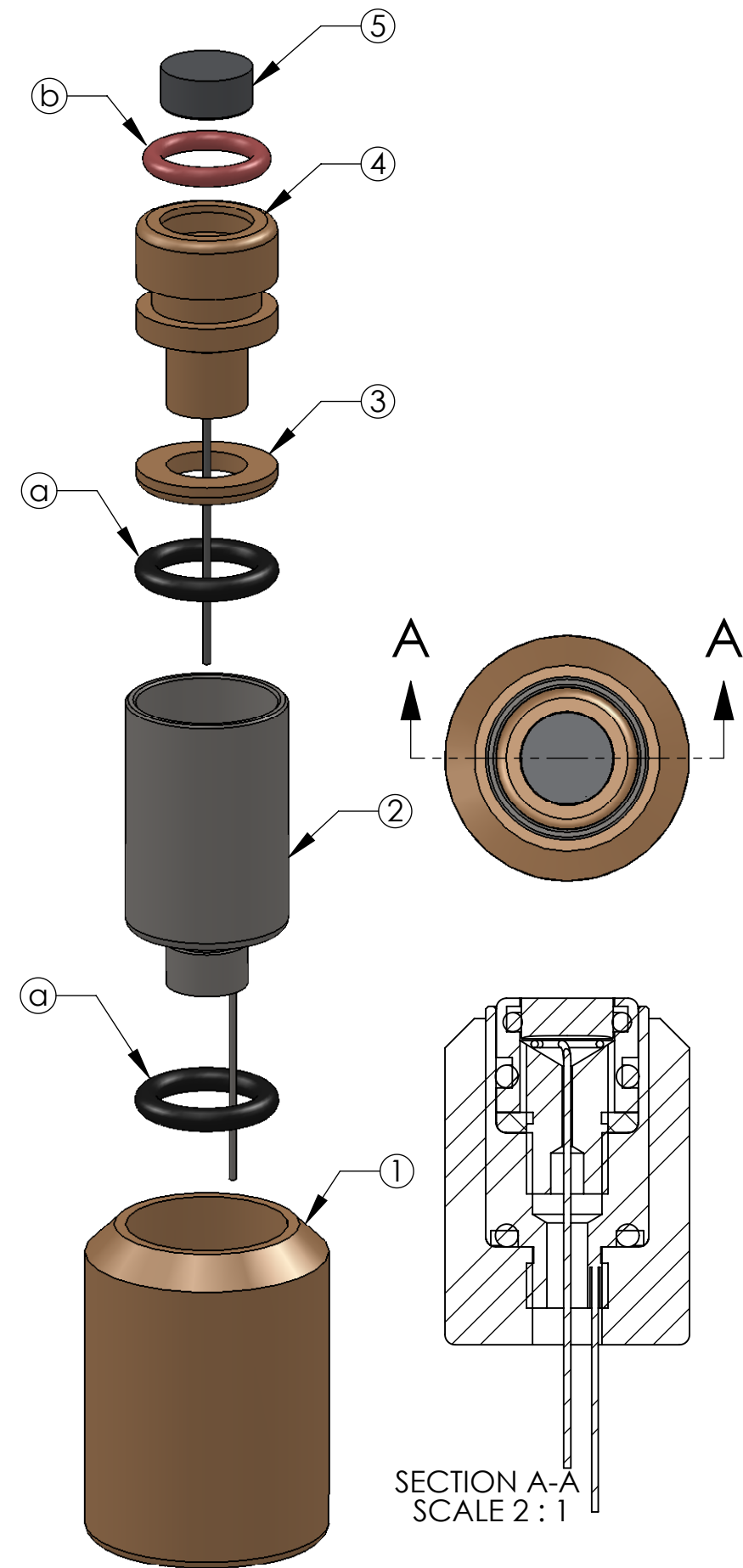


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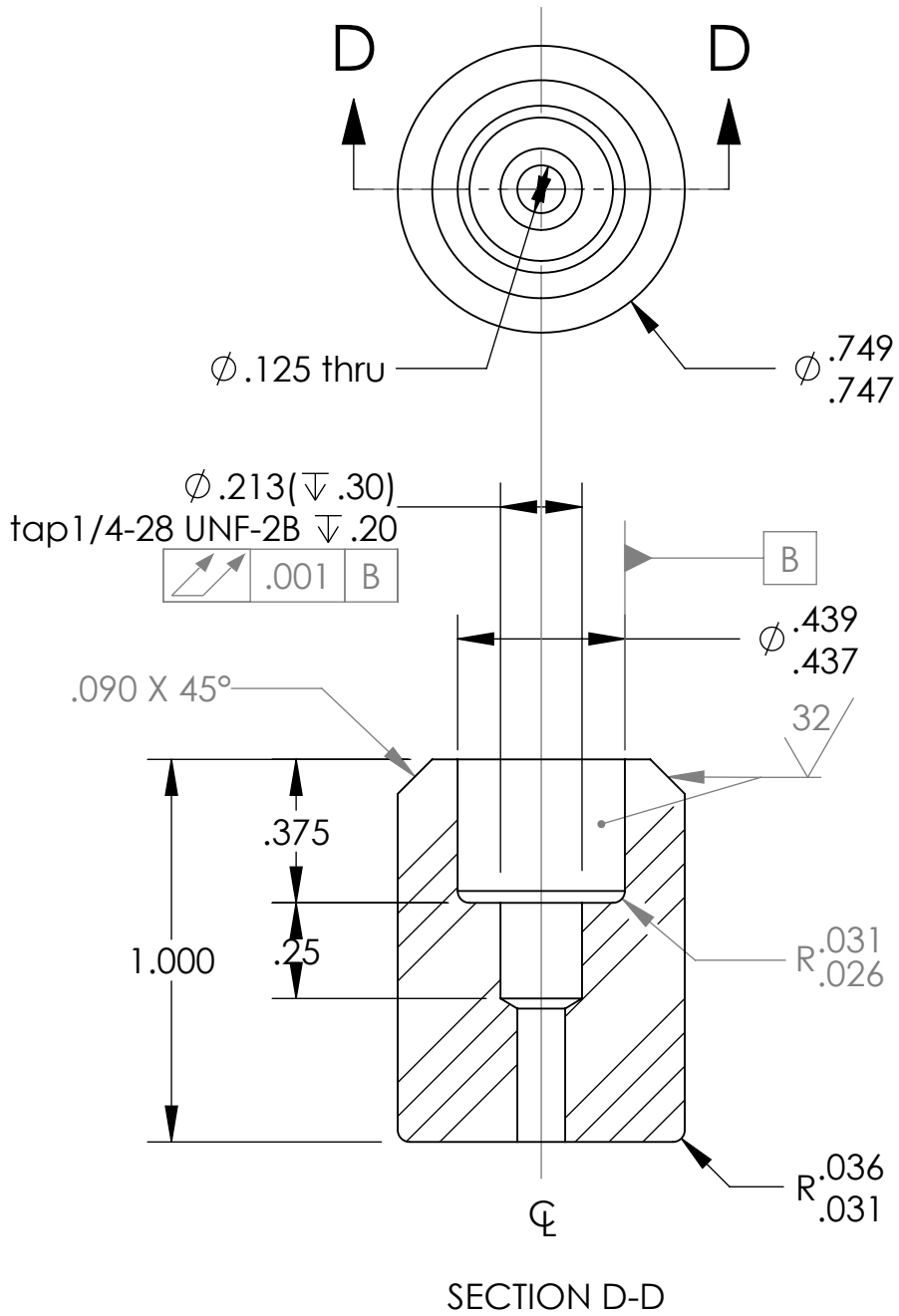
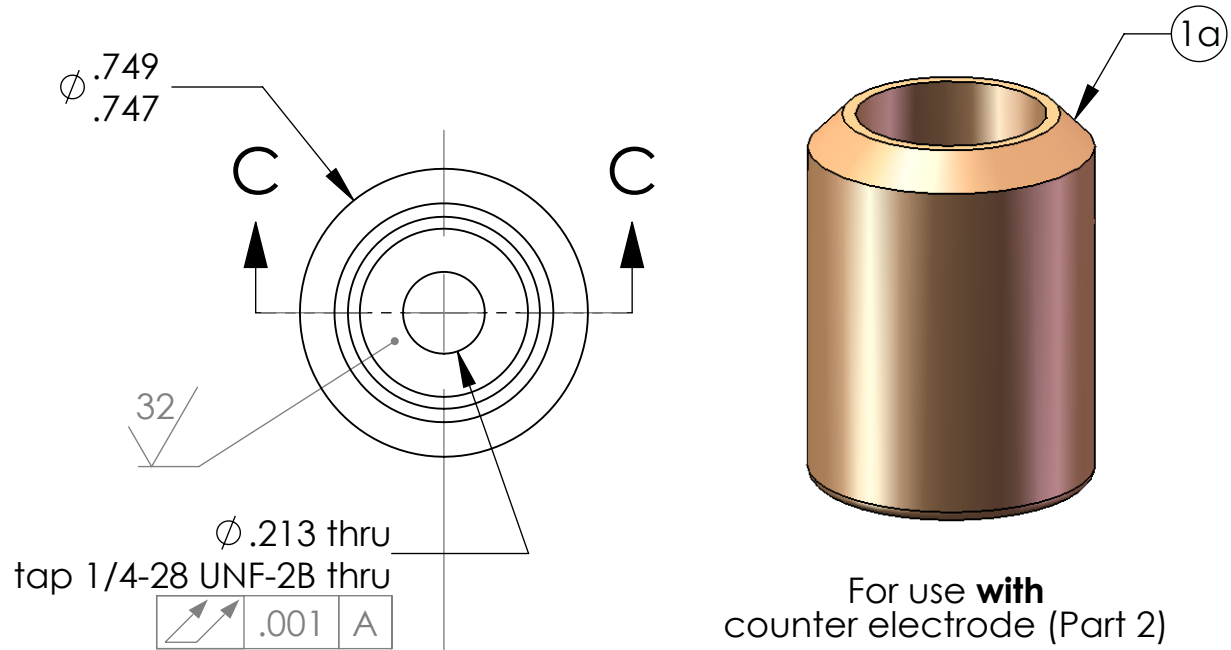
High-pressure Reference (A1) and DuraFET (A2)
PTChamber ASSEMBLIES

Item No.	Qty	Part No.	Description	Material Specification
f	4		#0-80 x 1/8" flathead screws	Type 316 Stainless Steel
e	1		.087 x .020 O-ring	Viton, D75 (Apple Rubber)
d	1		.248 x .020 O-ring	Viton, D75 (Apple Rubber)
c	1		DuraFET Chip	Honeywell
b	1		7 X 1.5 mm O-ring	Silicone, D50
a	2		-011 O-ring	Viton, D75
7	1		DuraFET Cover	PEEK (natural)
6	1		DuraFET Mount	PEEK Rod (natural)
5	1		Silver Chloride Pellet	vanLondon 7.2 x 3.6 mm silver chlodide
4	1		Ref Pellet Housing	PEEK Rod (natural)
3	1		Isolation Washer	PEEK Rod (natural)
2	1		Counter Electrode	Type 316 Stainless Steel Rod
1b	1		Common Support (Config b)	PEEK Rod (natural)
1a	1		Common Support (Config a)	PEEK Rod (natural)
A2	1		DuraFET for PTChamber	
A1	1		Ref Cell for PTChamber	

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	5/30/11		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.				ENGINEER				7700 Sandholdt RD.	
Engineer						CHECKED				Moss Landing, CA 95039	
NEXT ASSY Description	NEXT ASSY Number					PROJECT NO.	900918			PH: (831) 775-1700	
Application						PROJECT	Novel Sensors				
DO NOT SCALE DRAWING				WEIGHT		Common DuraFET & Reference		SIZE B		DWG. NO. 242jahaCommonDF+Ref	
						SCALE 1:3		CAD FILE: Tornado/chem/SWfiles		SHEET 1 OF 6	

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For use **without** counter electrode (Part 2)

SECTION C-C

SECTION D-D

1b	1		Common Support (Config b)	PEEK Rod (natural)	
1a	1		Common Support (Config a)	PEEK Rod (natural)	
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	DRAWN Hans Jannasch 5/30/11
Shop Foreman		1. DIMENSIONS ARE IN INCHES			
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.			CHECKED
NEXT ASSY Description	NEXT ASSY Number	3. REMOVE BURRS AND SHARP EDGES .015 MAX.			PROJECT NO. 900918
		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.			PROJECT Novel Sensors
Application		DO NOT SCALE DRAWING		WEIGHT	

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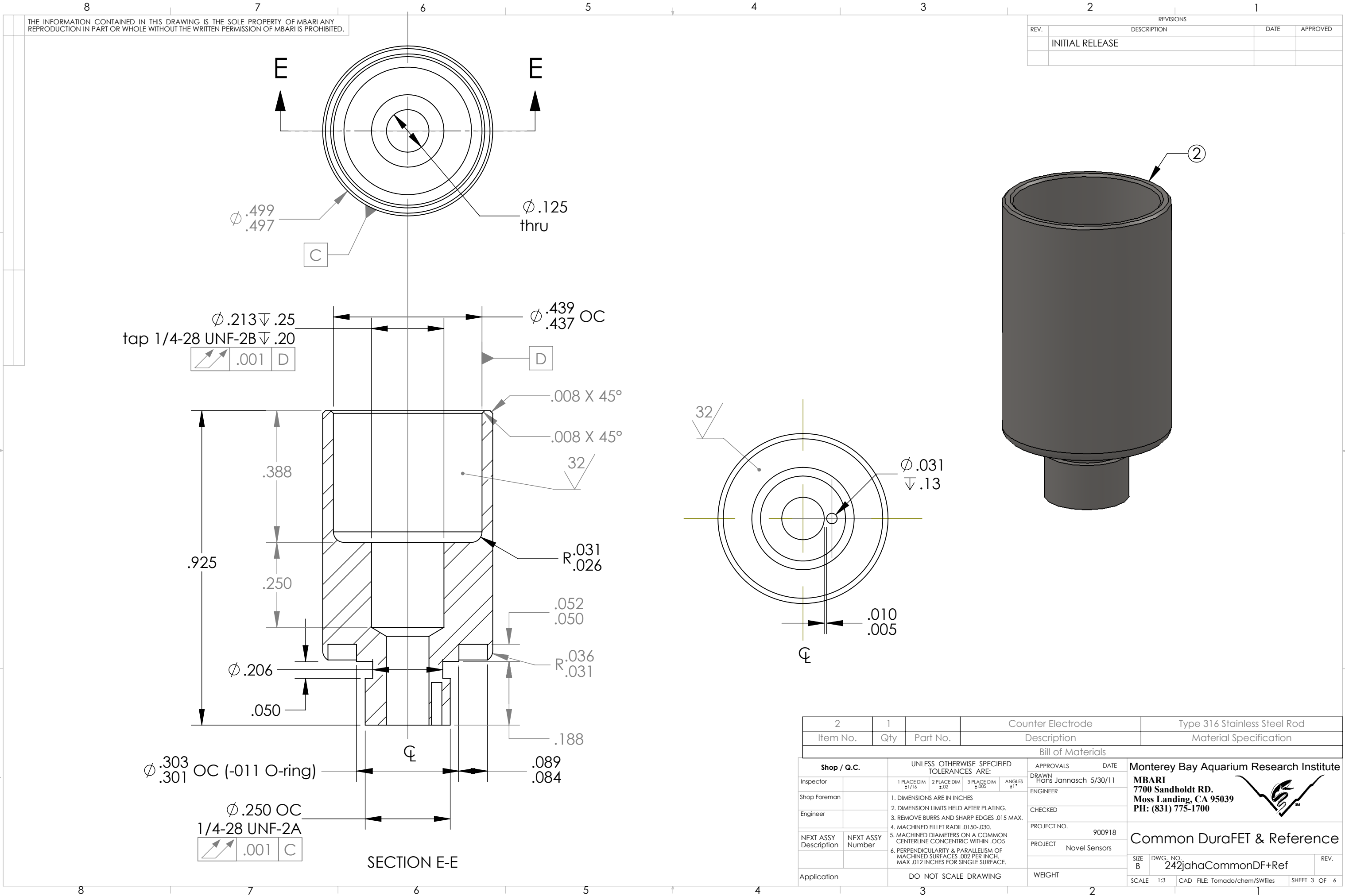


Common DuraFET & Reference

SIZE B	DWG. NO. 242jahaCommonDF+Ref	REV.
SCALE 1:3	CAD FILE: Tornado/chem/SWfiles	SHEET 2 OF 6

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Common DuraFET & Reference



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	INITIAL RELEASE		

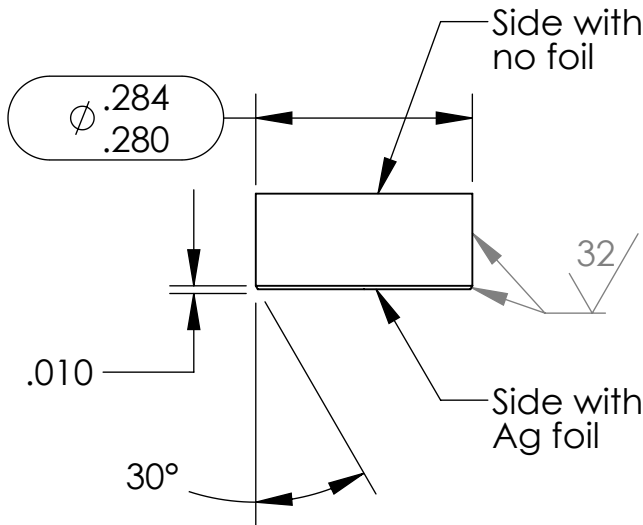
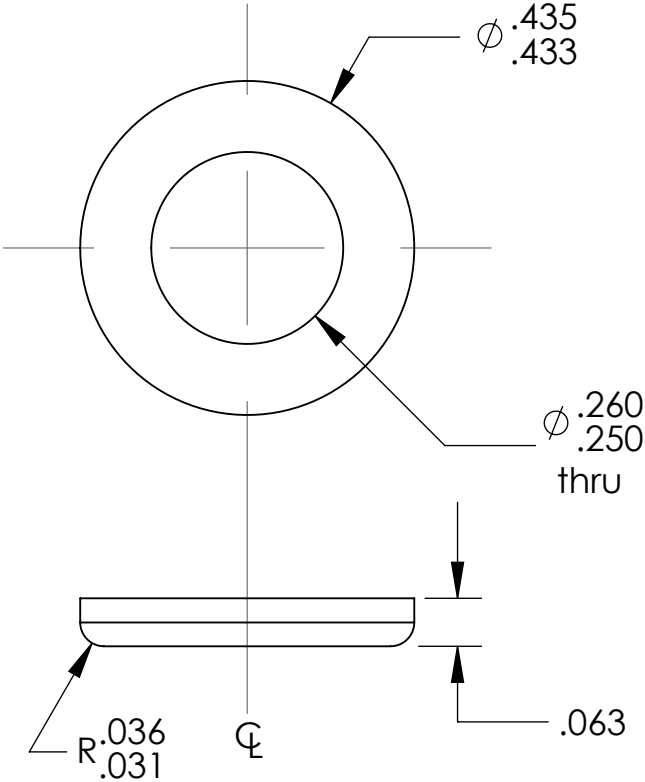
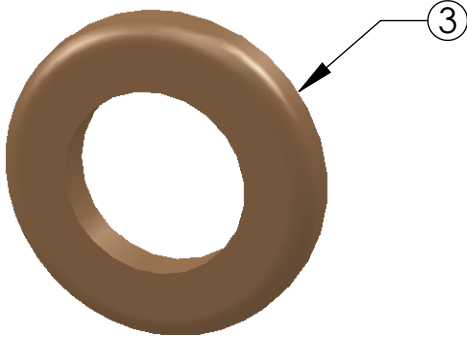
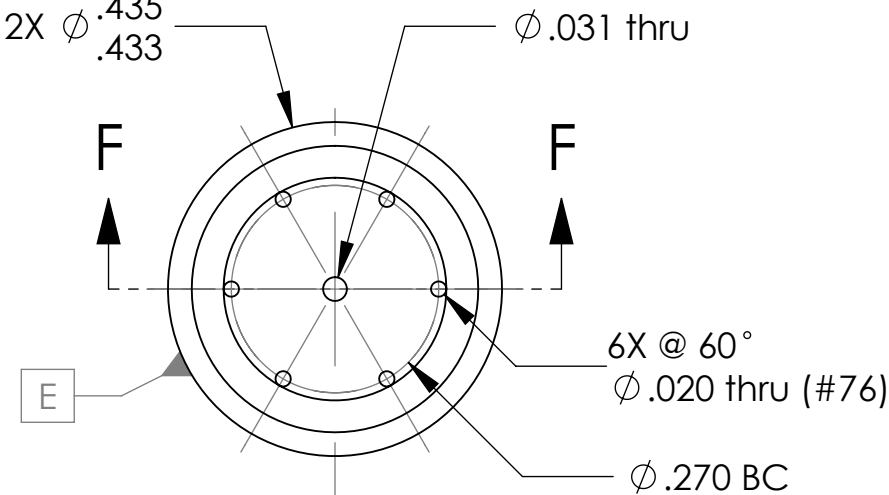
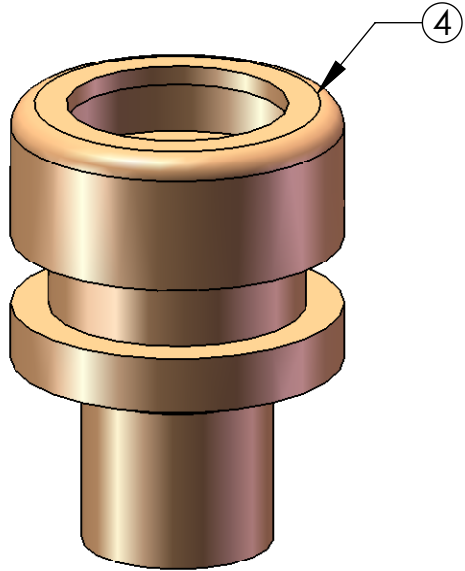
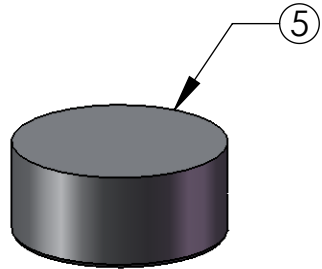
2		1				Counter Electrode		Type 316 Stainless Steel Rod	
Item No.		Qty		Part No.		Description		Material Specification	
Bill of Materials									
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE	
Inspector		1 PLACE DIM ±1/16		2 PLACE DIM ±.02		3 PLACE DIM ±.005		ANGLES ±1°	
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.				DRAWN Hans Jannasch		5/30/11	
Engineer						ENGINEER			
						CHECKED			
NEXT ASSY Description		NEXT ASSY Number		5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005				PROJECT NO. 900918	
				6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.				PROJECT Novel Sensors	
Application		DO NOT SCALE DRAWING				WEIGHT			
						2			

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SCALE 1:3		CAD FILE: Tornado/chem/SWfiles		SHEET 3 OF 6	

SIZE B	DWG. NO. 242jahaCommonDF+Ref	REV.
SCALE 1:3	CAD FILE: Tornado/chem/SWfiles	SHEET 3 OF 6

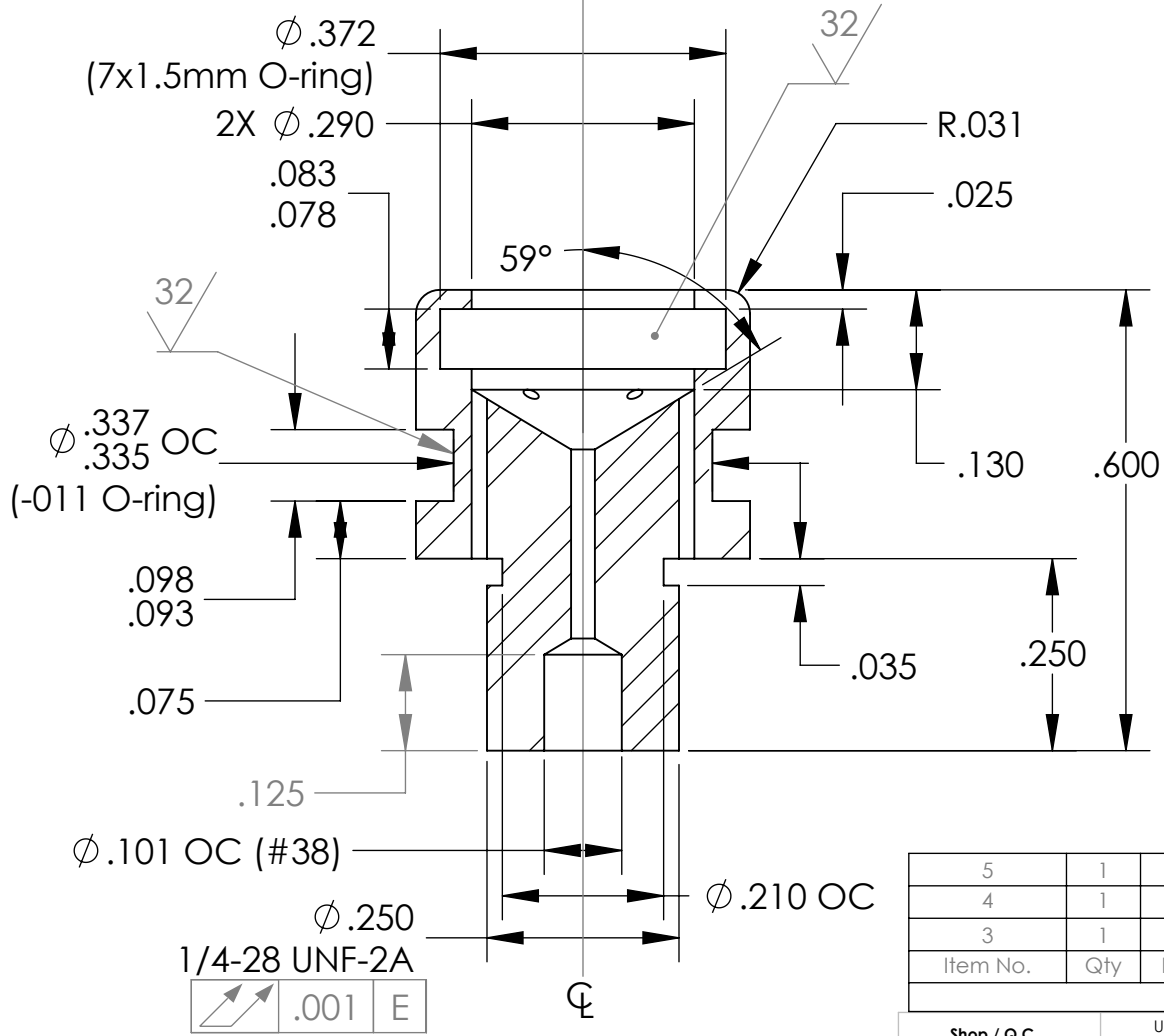
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Note: Machine chamfer while turning pellet in clean soft collet with clean sharp tool. Use NO oil or other fluids. Handle pellet with clean latex gloves.

Note: Side with no foil is not machined (machined flat after epoxying into part #4)



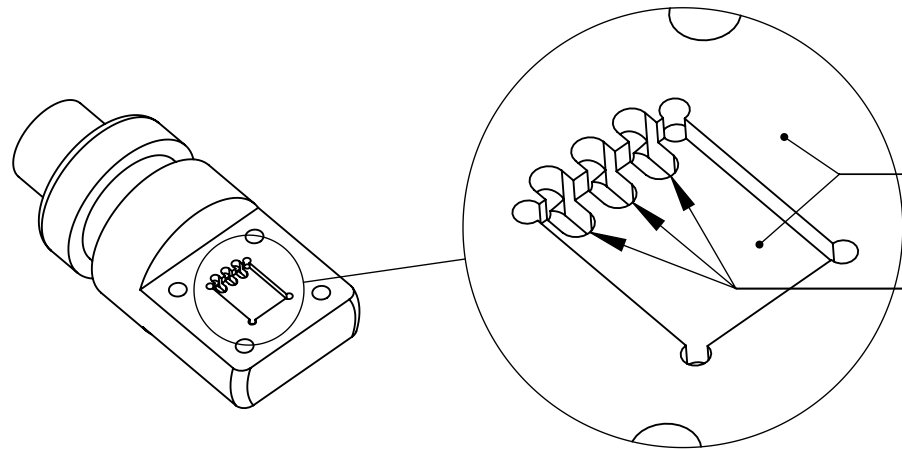
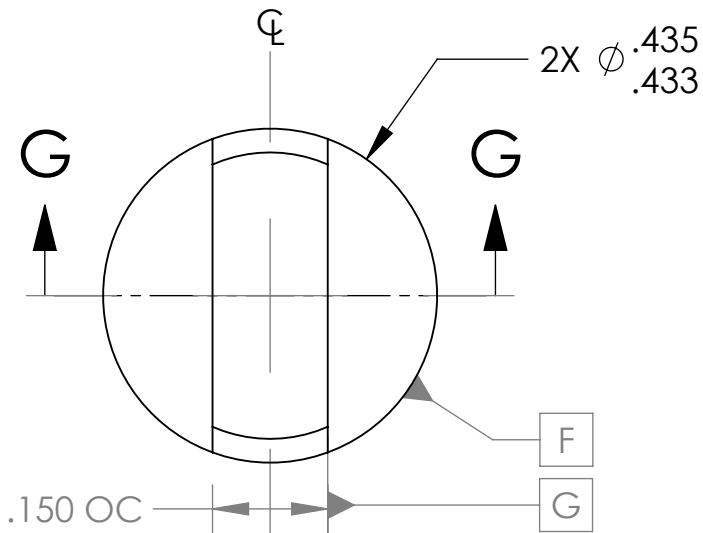
SECTION F-F
SCALE 4 : 1

5	1		Silver Chloride Pellet	vanLondon 7.2 x 3.6 mm silver chloride
4	1		Ref Pellet Housing	PEEK Rod (natural)
3	1		Isolation Washer	PEEK Rod (natural)
Item No.	Qty	Part No.	Description	Material Specification

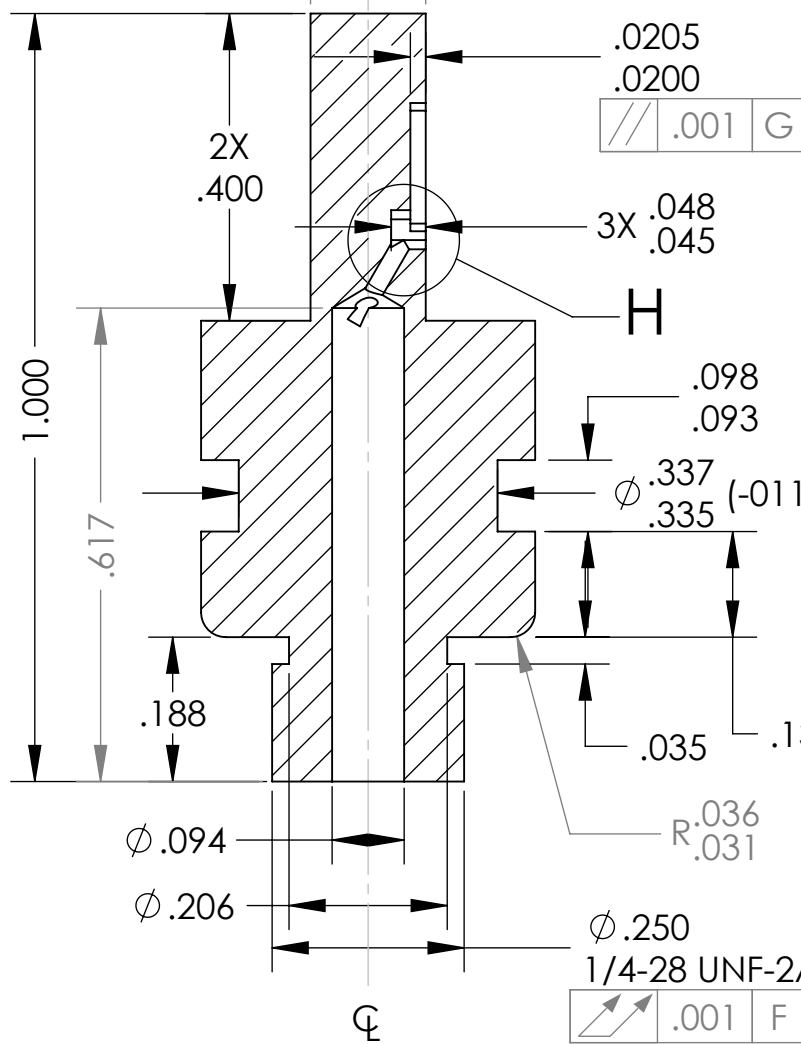
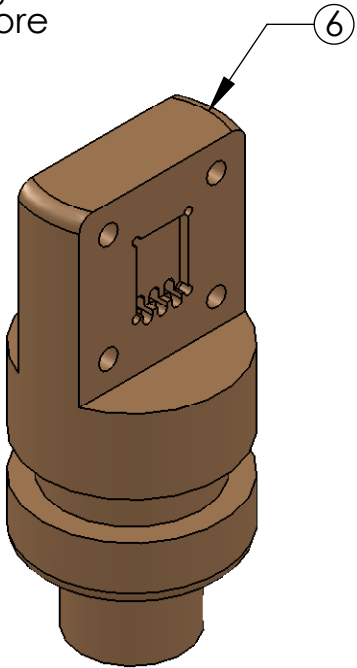
Bill of Materials			
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:	APPROVALS DATE
Inspector		1 PLACE DIM ±1/16 2 PLACE DIM ±.02 3 PLACE DIM ±.005 ANGLES ±1°	DRAWN Hans Jannasch 5/30/11 ENGINEER
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS 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.	CHECKED
Engineer			PROJECT NO. 900918
NEXT ASSY Description	NEXT ASSY Number		PROJECT Novel Sensors
Application		DO NOT SCALE DRAWING	WEIGHT
			Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700
			Common DuraFET & Reference
			SIZE B DWG. NO. 242jahaCommonDF+Ref REV.
			SCALE 1:3 CAD FILE: Tornado/chem/SWfiles SHEET 4 OF 6

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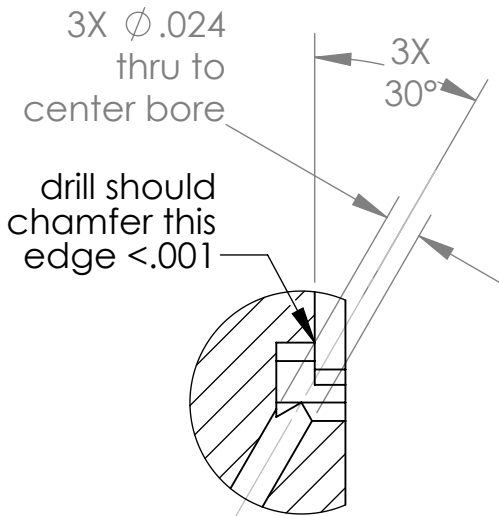
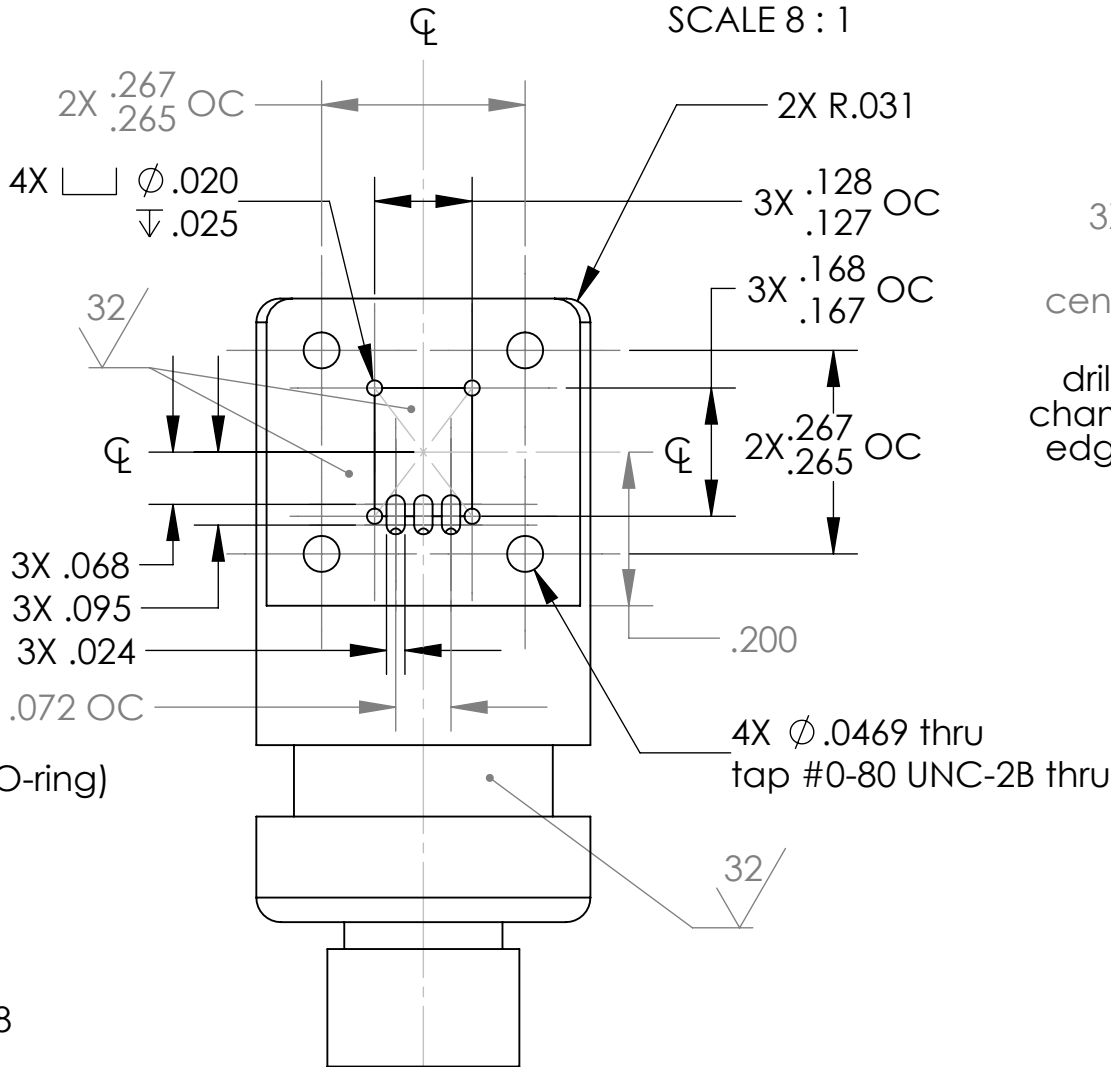
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REV.	DESCRIPTION	DATE	APPROVED
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DETAIL H
SCALE 8 : 1



SECTION G-G



DETAIL H
SCALE 8 : 1

6		1		DuraFET Mount		PEEK Rod (natural)	
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 5/30/11	
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	
Engineer						CHECKED	
						PROJECT NO. 900918	
NEXT ASSY Description		NEXT ASSY Number		PROJECT Novel Sensors		PROJECT NO. 900918	
Application		DO NOT SCALE DRAWING				WEIGHT	
						SIZE B DWG. NO. 242jahaCommonDF+Ref REV.	
SCALE 1:3 CAD FILE: Tornado/chem/SWfiles SHEET 5 OF 6							

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