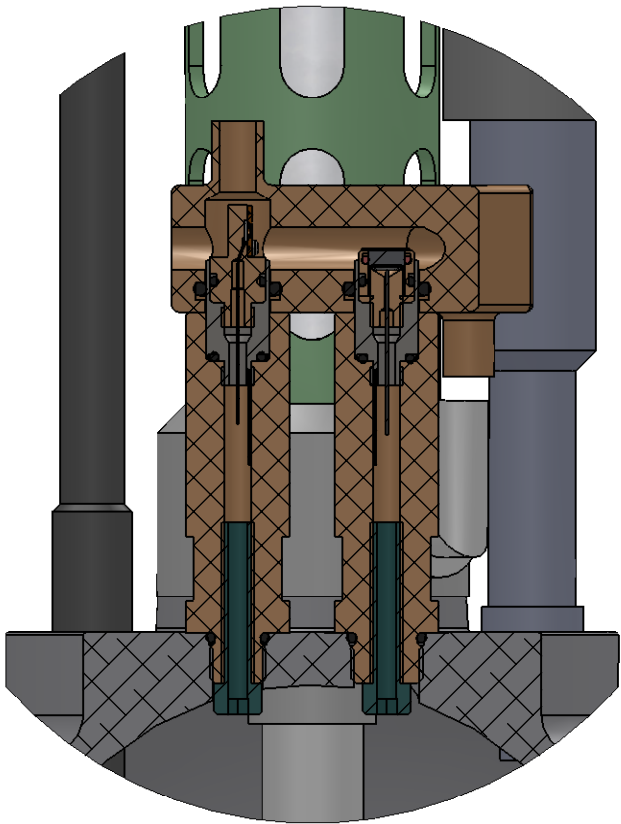


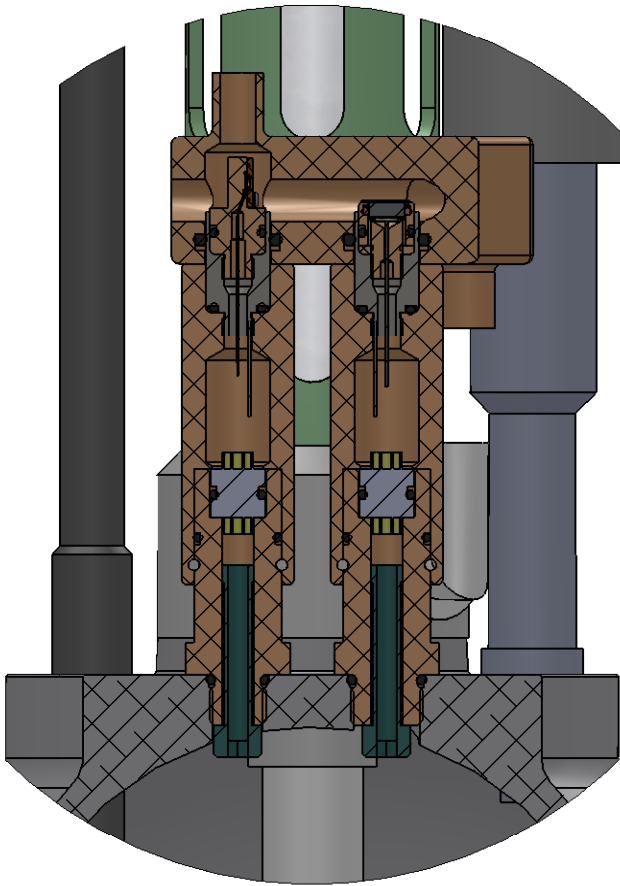
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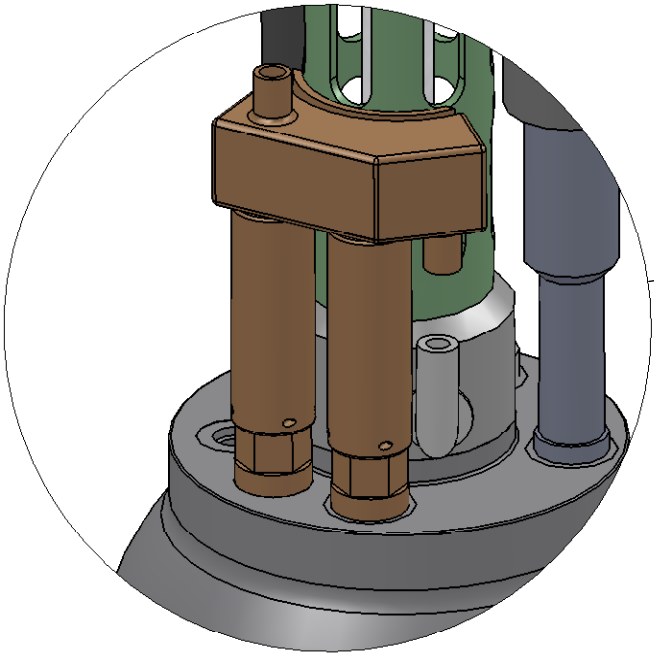
DETAIL A
SCALE 1 : 1.5

Standard Mount

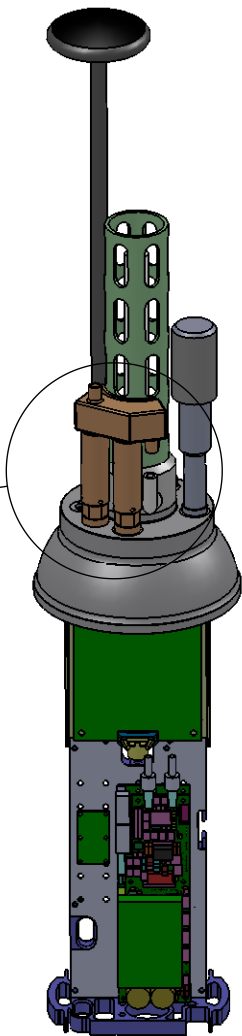


DETAIL B
SCALE 1 : 1.5

PNA Mount



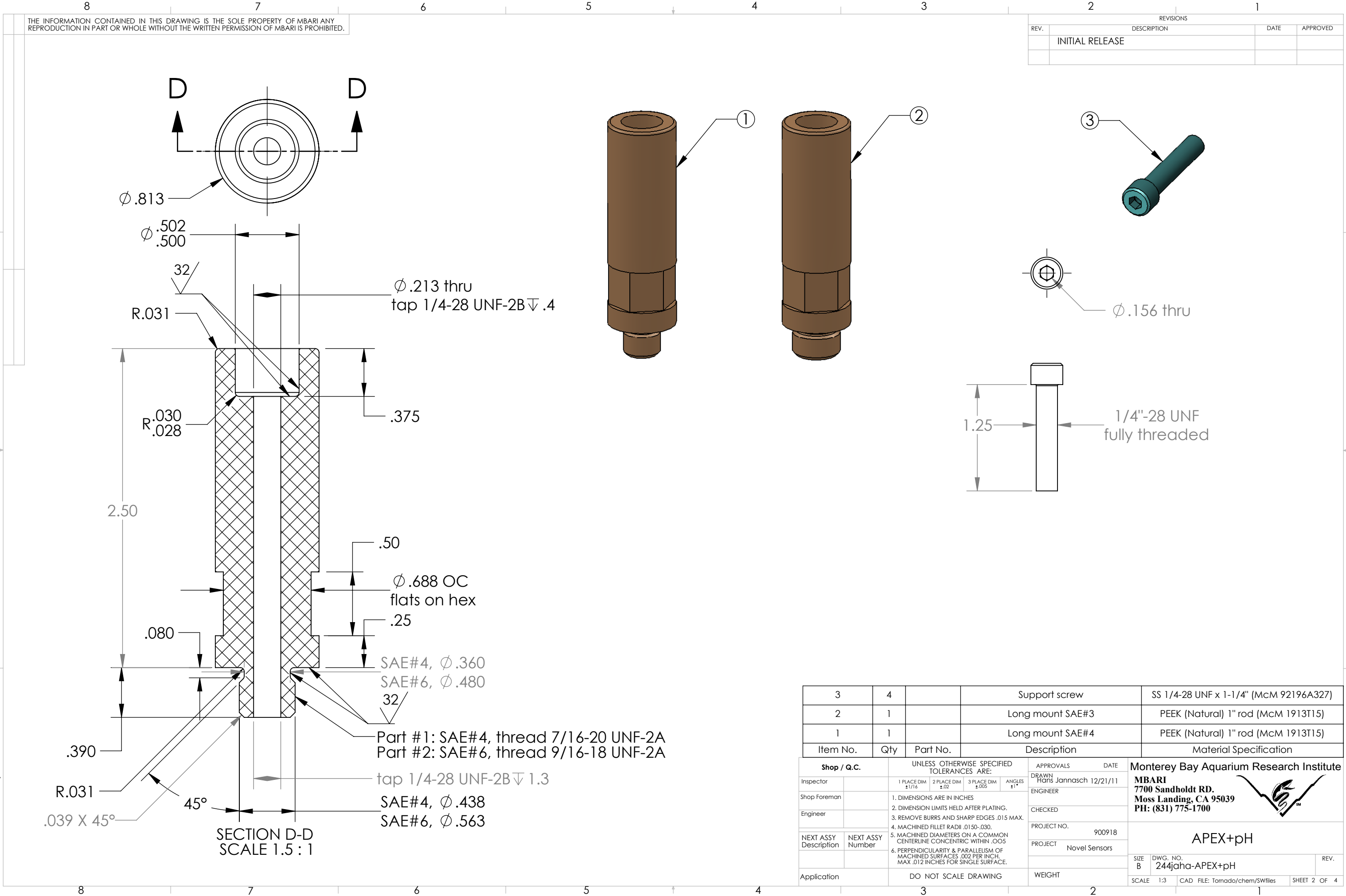
DETAIL C
SCALE 1 : 2



Assembly

7	1		pH Flowcell	PEEK (Natural) 1.5x2" bar (McM 9089K79)
6	2		PNA mount top	PEEK (Natural) 1" rod (McM 1913T15)
5	1		PNA mount SAE#6	PEEK (Natural) 1" rod (McM 1913T15)
4	1		PNA mount SAE#4	PEEK (Natural) 1" rod (McM 1913T15)
3	4		Support screw	SS 1/4-28 UNF x 1-1/4" (McM 92196A327)
2	1		Long mount SAE#3	PEEK (Natural) 1" rod (McM 1913T15)
1	1		Long mount SAE#4	PEEK (Natural) 1" rod (McM 1913T15)
Item No.	Qty	Part No.	Description	Material Specification

Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS	DATE	Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700	
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	DRAWN Hans Jannasch	12/21/11		
Shop Foreman		3 PLACE DIM ±.005	ANGLES ±1°	ENGINEER			
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.			CHECKED		
NEXT ASSY Description	NEXT ASSY Number			PROJECT NO.	900918	APEX+pH	
				PROJECT	Novel Sensors		
Application		DO NOT SCALE DRAWING		WEIGHT		SIZE B	DWG. NO. 244jaha-APEX+pH
						SCALE 1:3	CAD FILE: Tornado/chem/SWfiles
						SHEET 1 OF 4	



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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		

3	4		Support screw	SS 1/4-28 UNF x 1-1/4" (Mcm 92196A327)
2	1		Long mount SAE#3	PEEK (Natural) 1" rod (Mcm 1913T15)
1	1		Long mount SAE#4	PEEK (Natural) 1" rod (Mcm 1913T15)
Item No.	Qty	Part No.	Description	Material Specification
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005
Shop Foreman			ANGLES ±1°	
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		
Application		DO NOT SCALE DRAWING		
		DATE		12/21/11
		DRAWN		Hans Jannasch
		ENGINEER		
		CHECKED		
		PROJECT NO.		900918
		PROJECT		Novel Sensors
		WEIGHT		
		SIZE B	DWG. NO. 244jaha-APEX+pH	REV.
		SCALE 1:3	CAD FILE: Tornado/chem/SWfiles	SHEET 2 OF 4

Monterey Bay Aquarium Research Institute

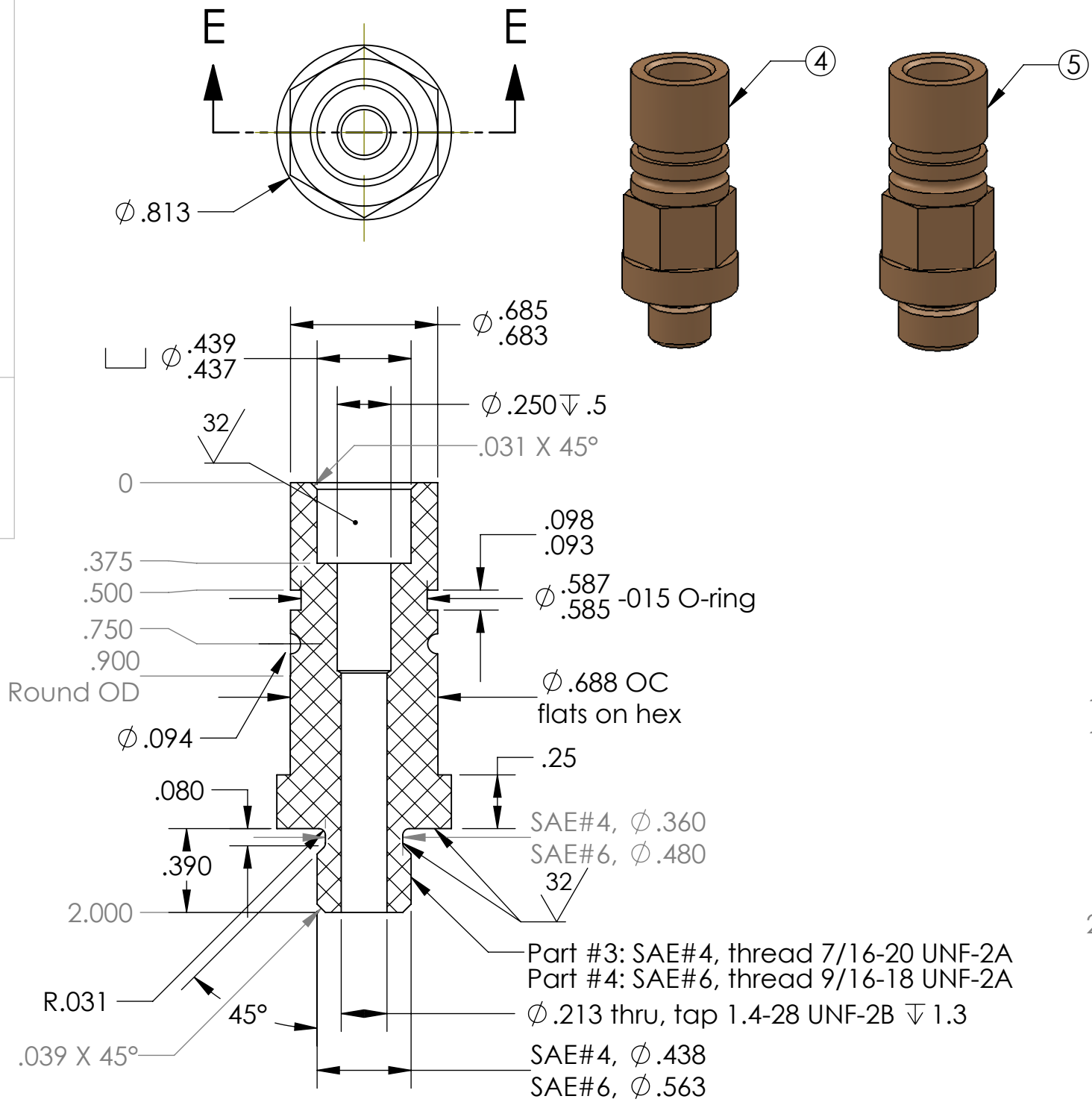
MBARI
7700 Sandholdt RD.
Moss Landing, CA 95039
PH: (831) 775-1700



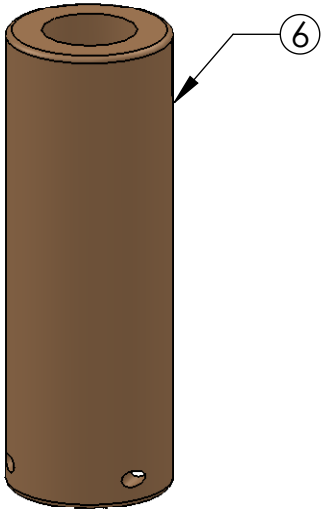
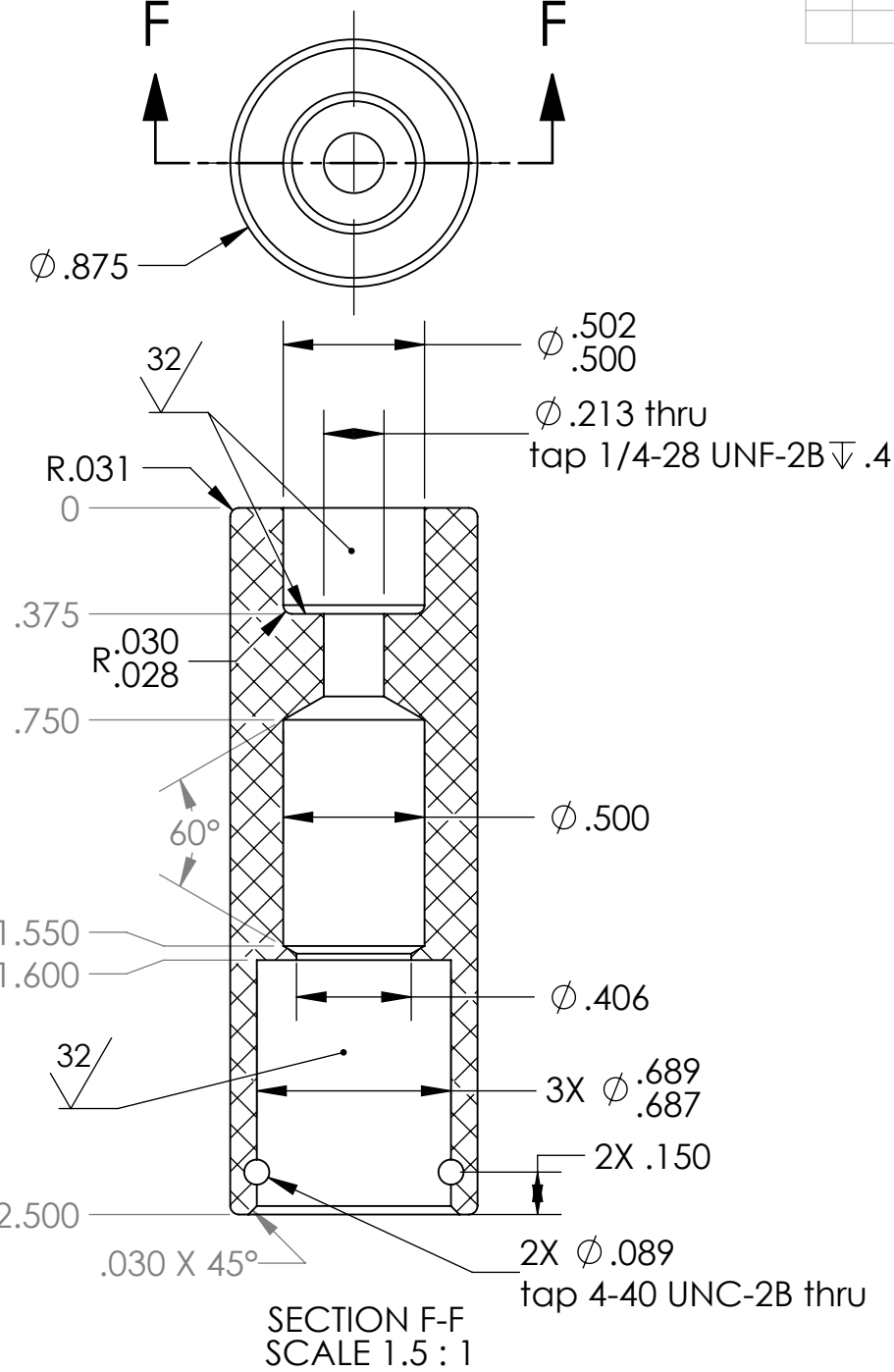
APEX+pH

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		



SECTION E-E
SCALE 1.5 : 1

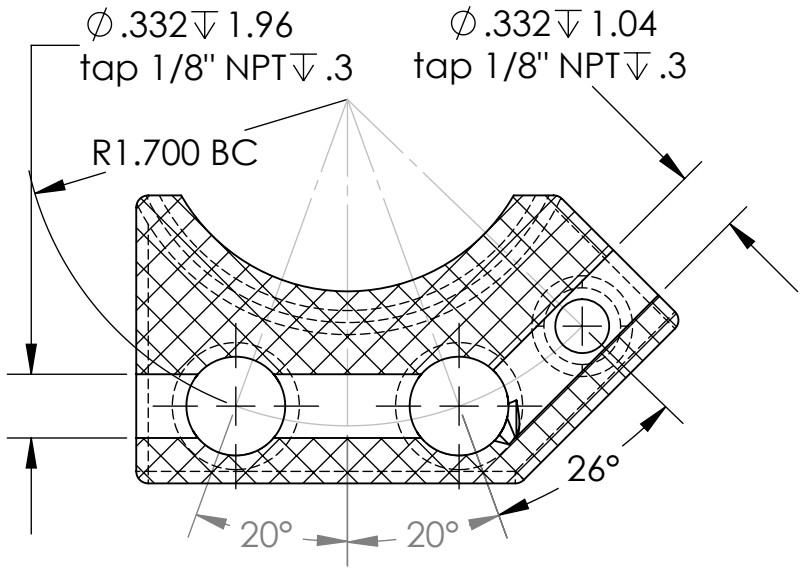
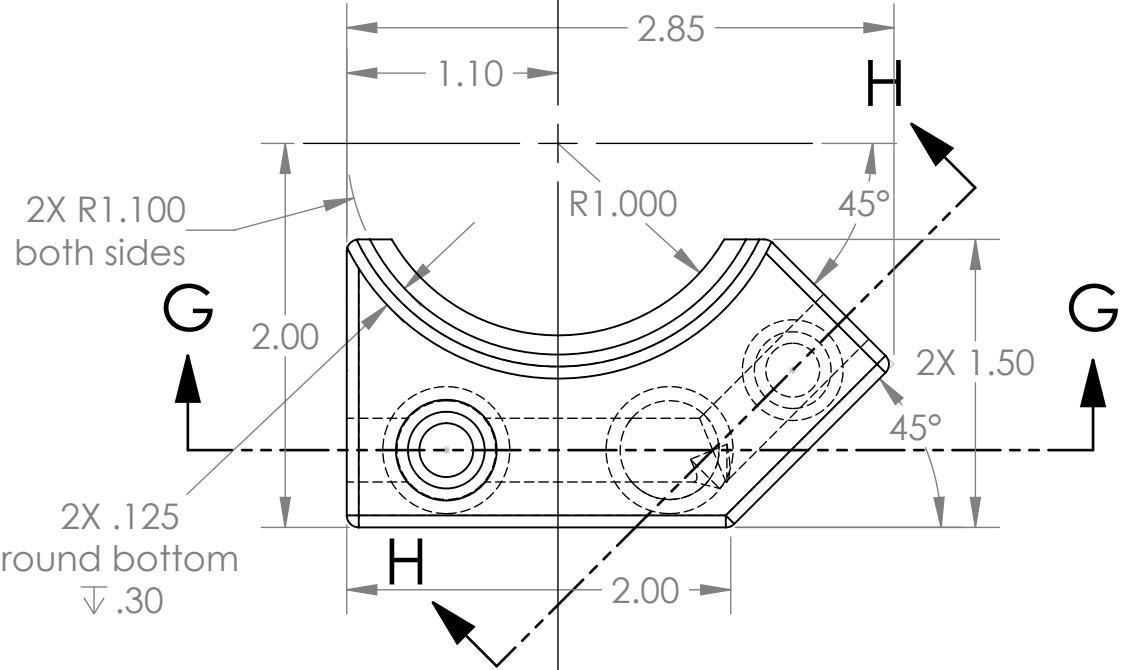


6	2		PNA mount top	PEEK (Natural) 1" rod (McM 1913T15)
5	1		PNA mount SAE#6	PEEK (Natural) 1" rod (McM 1913T15)
4	1		PNA mount SAE#4	PEEK (Natural) 1" rod (McM 1913T15)
Item No.	Qty	Part No.	Description	Material Specification

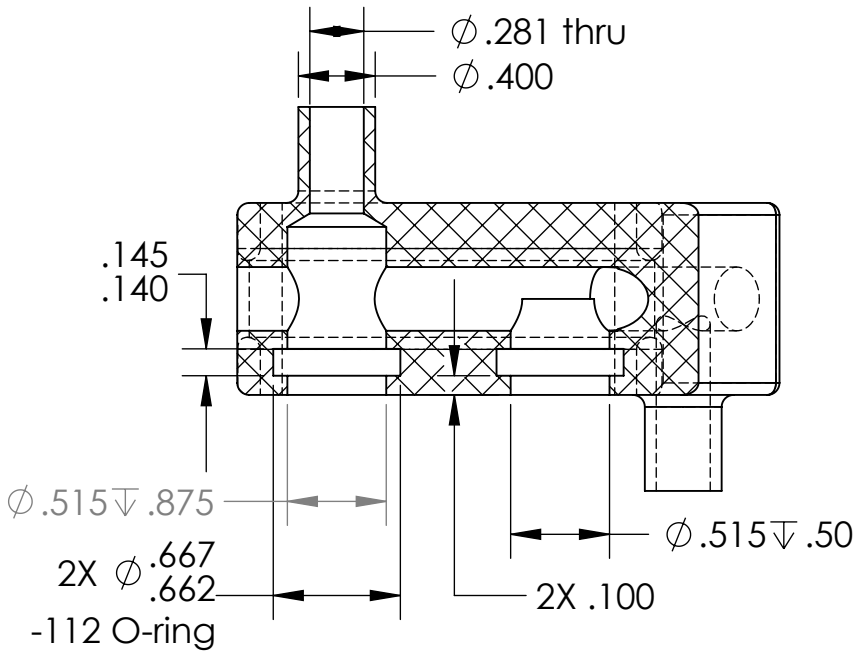
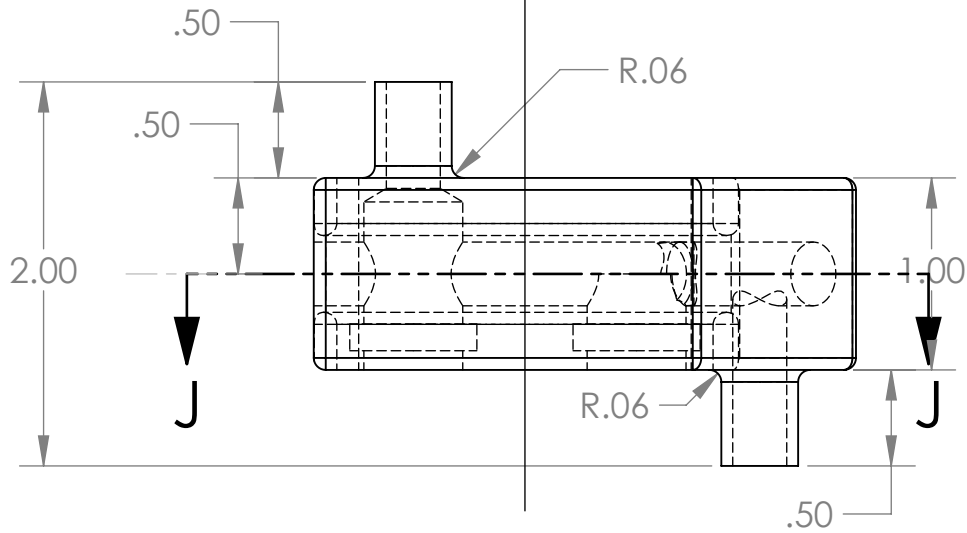
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE	Monterey Bay Aquarium Research Institute		
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN	Hans Jannasch	12/21/11	MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700		
Shop Foreman		1. DIMENSIONS ARE IN INCHES				ENGINEER					
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.				CHECKED			APEX+pH		
NEXT ASSY Description	NEXT ASSY Number	3. REMOVE BURRS AND SHARP EDGES .015 MAX.				PROJECT NO.	900918				
		4. MACHINED FILLET RADII .0150-.030.				PROJECT	Novel Sensors		SIZE B DWG. NO. 244jaha-APEX+pH REV.		
		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 1:3	CAD FILE: Tornado/chem/SWfiles	SHEET 3 OF 4

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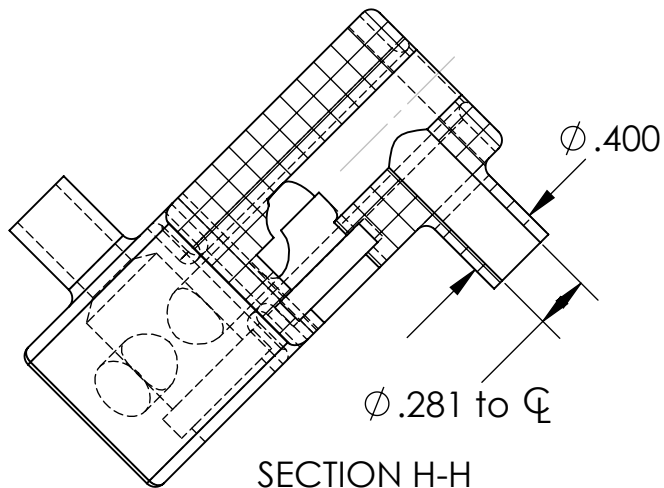
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		



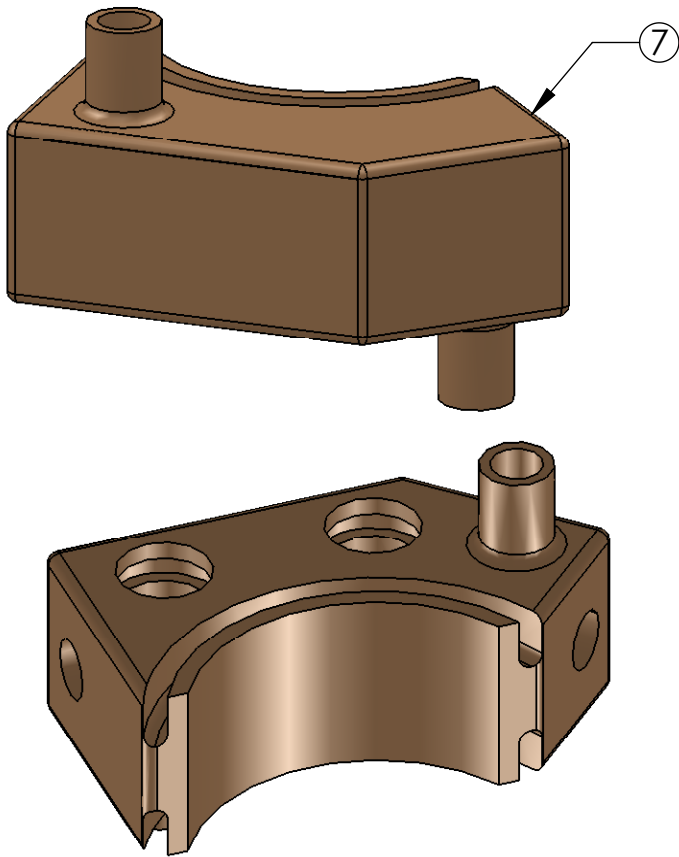
SECTION J-J



SECTION G-G



SECTION H-H



7		1		pH Flowcell		PEEK (Natural) 1.5x2" bar (McM 9089K79)							
Item No.		Qty	Part No.	Description			Material Specification						
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:			APPROVALS		DATE		Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700  APEX+pH				
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN Hans Jannasch 12/21/11							
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								
NEXT ASSY Description	NEXT ASSY Number				PROJECT NO.		900918						
					PROJECT		Novel Sensors						
Application		DO NOT SCALE DRAWING			WEIGHT		SIZE B	DWG. NO. 244jaha-APEX+pH		REV.			
		3			2		SCALE 1:3	CAD FILE: Tornado/chem/SWfiles		SHEET 4	OF 4		
									1				