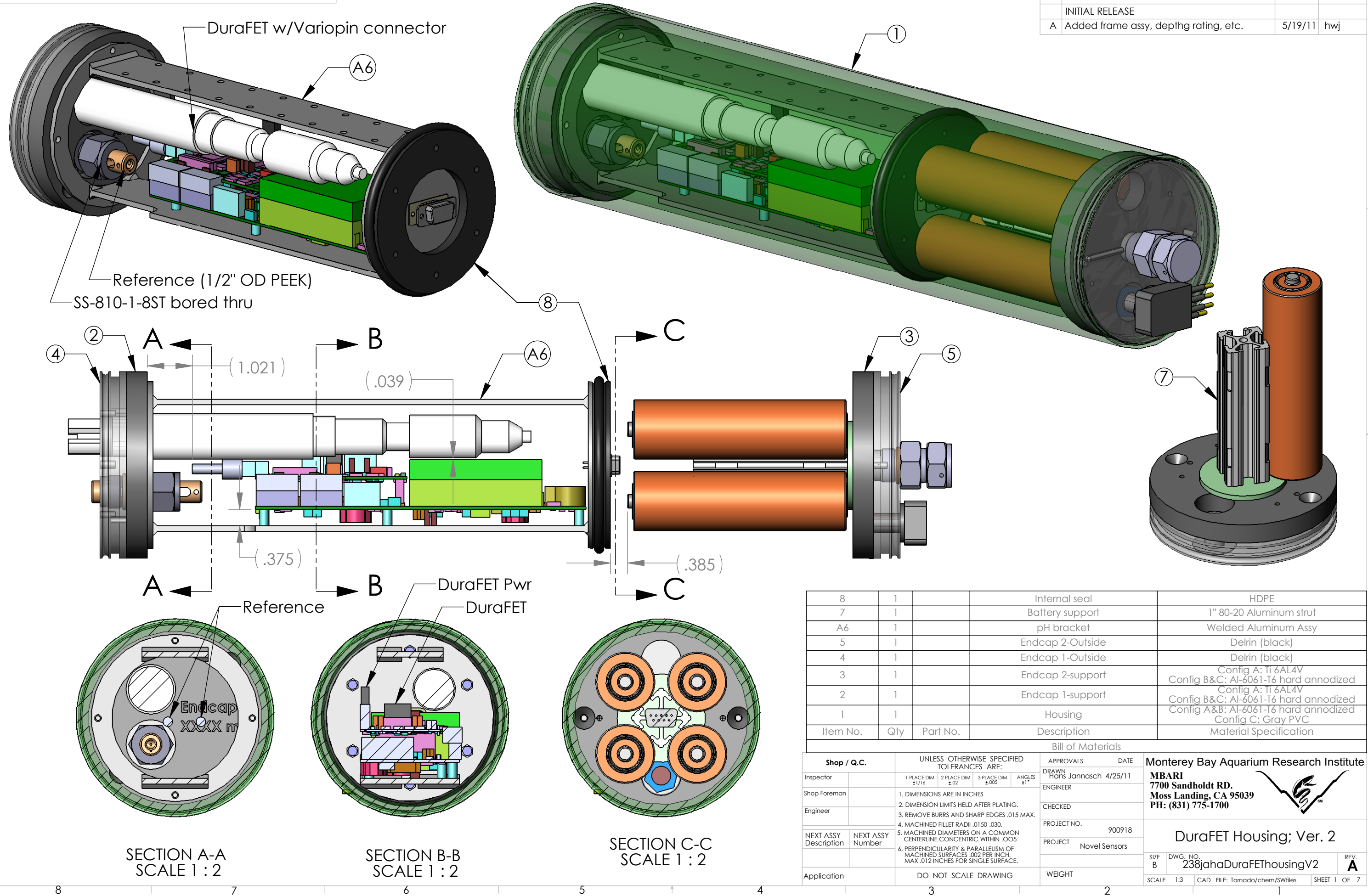


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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
INITIAL RELEASE			
A	Added frame assy, depthg rating, etc.	5/19/11	hwj

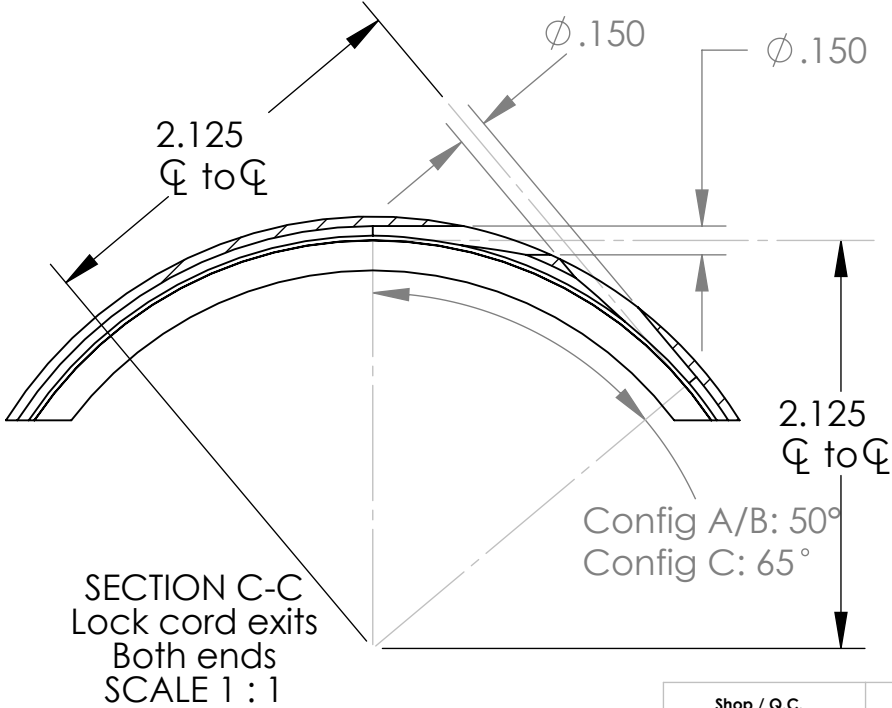
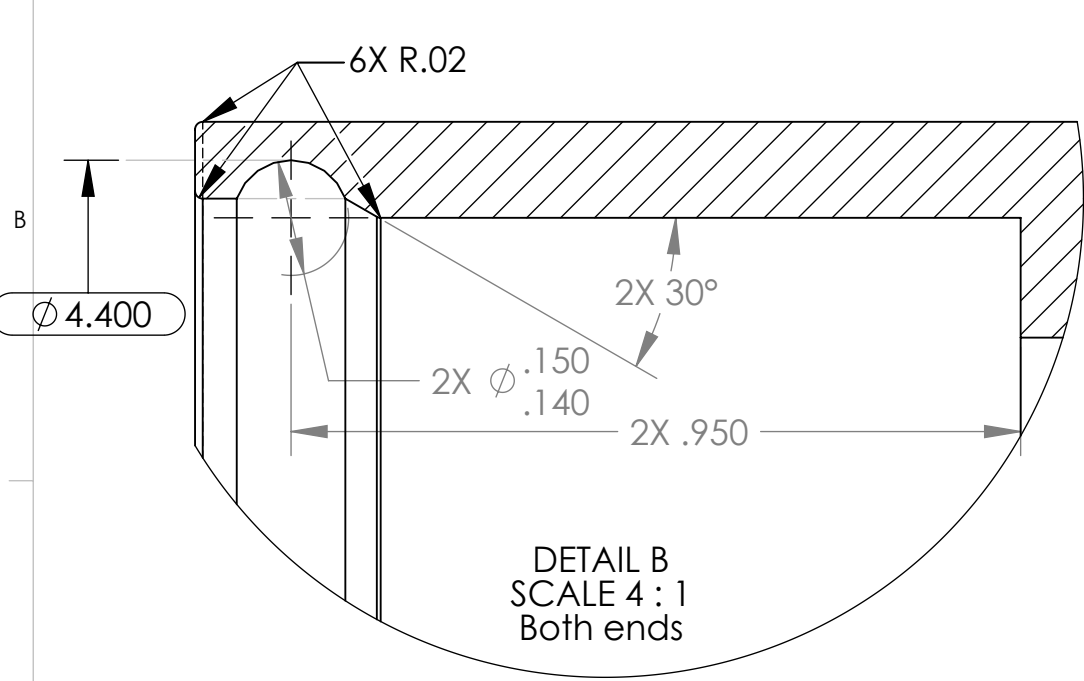
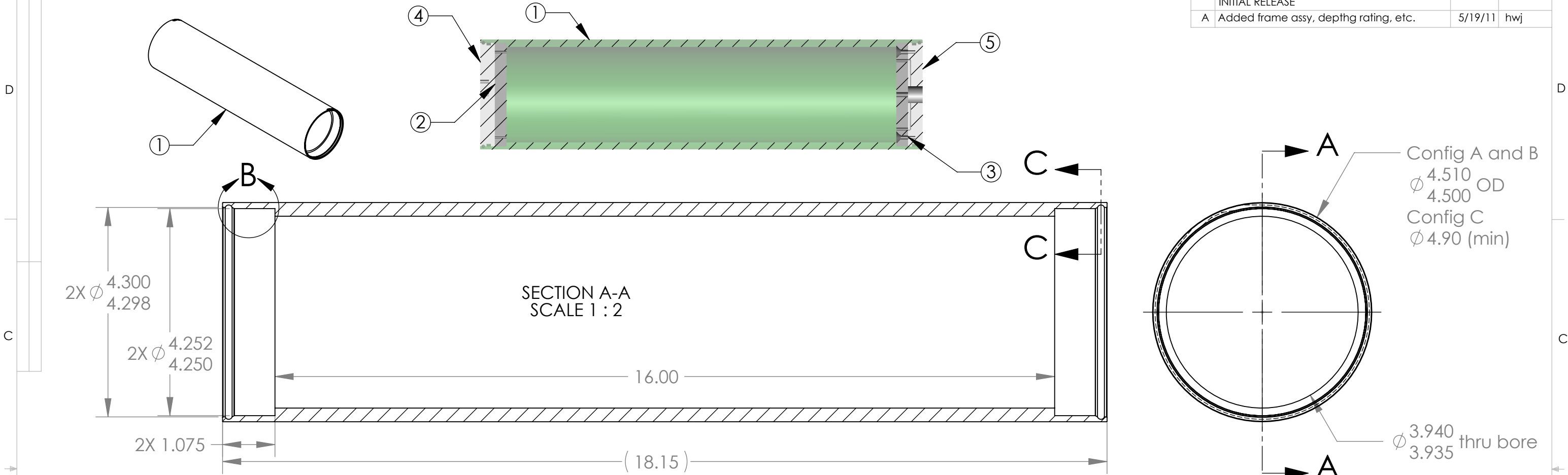


Item No.	Qty	Part No.	Description	Material Specification
8	1		Internal seal	HDPE
7	1		Battery support	1" 80-20 Aluminum strut
A6	1		pH bracket	Welded Aluminum Assy
5	1		Endcap 2-Outside	Delrin (black)
4	1		Endcap 1-Outside	Delrin (black)
3	1		Endcap 2-support	Config A: Ti 6AL4V Config B&C: Al-6061-T6 hard anodized
2	1		Endcap 1-support	Config A: Ti 6AL4V Config B&C: Al-6061-T6 hard anodized
1	1		Housing	Config A&B: Al-6061-T6 hard anodized Config C: Gray PVC
Bill of Materials				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	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN Hans Jannasch 4/25/11		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		PROJECT NO. 900918		DuraFET Housing; Ver. 2			
Engineer						PROJECT						Novel Sensors	
NEXT ASSY Description	NEXT ASSY Number					WEIGHT		SIZE B				DWG. NO. 238jahaDuraFETHousingV2	
Application		DO NOT SCALE DRAWING						SCALE 1:3				CAD FILE: Tornado/chem/SWfiles	

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
INITIAL RELEASE			
A	Added frame assy, depthg rating, etc.	5/19/11	hwj



Configurations:
A: 1000m rating (Al housing, Ti endcaps)
B: 350m rating (Al housing, Al endcaps)
C: 100m rating (PVC housing, Al endcaps)

Note 7: Use -242 Orings
Note 8: Use 1/8" Polypro cord

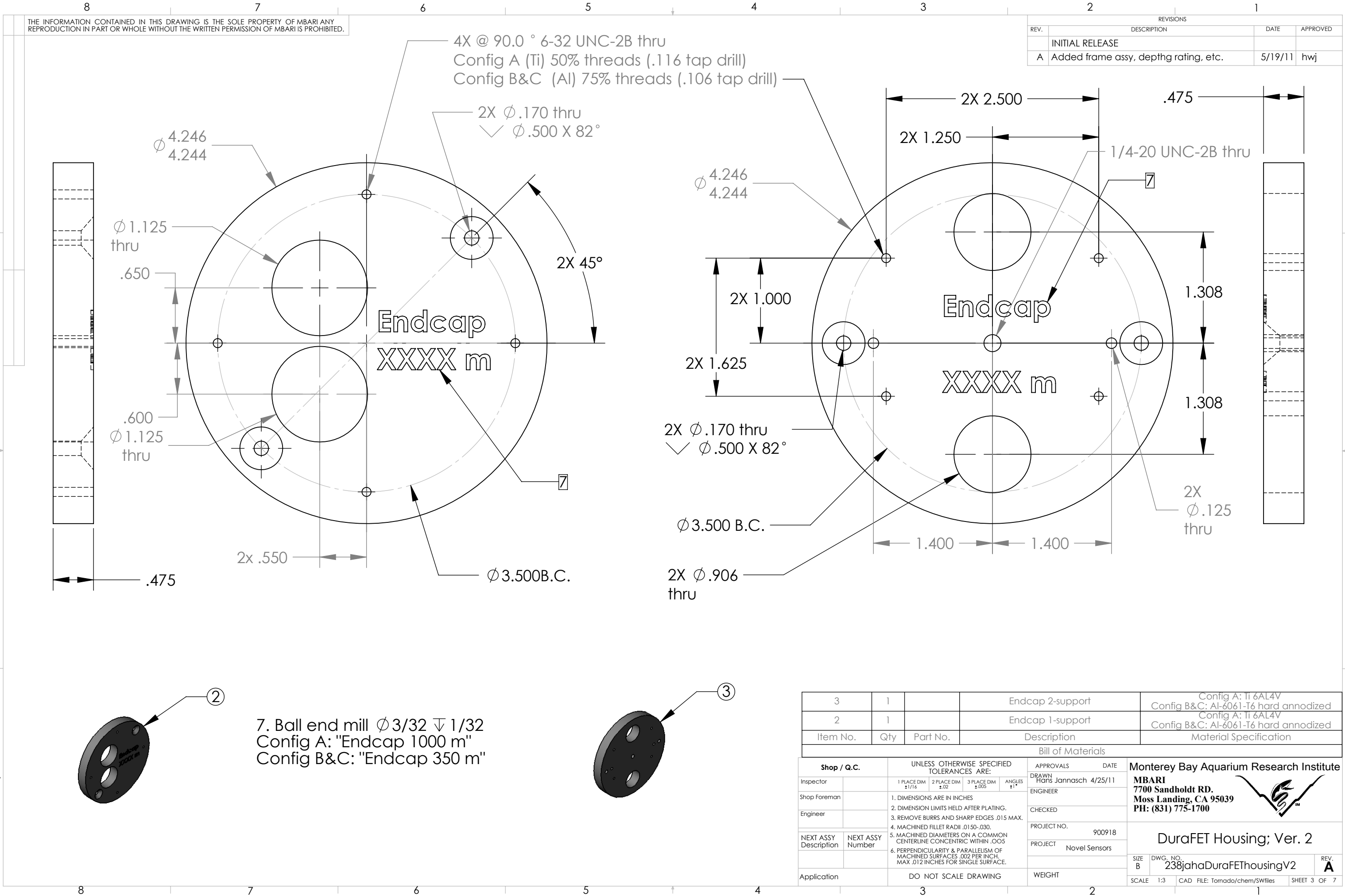
Item No.	Qty	Part No.	Description	Material Specification
1	1		Housing	Config A&B: Al-6061-T6 hard anodized Config C: Gray PVC
Bill of Materials				

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 Hans Jannasch	4/25/11
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
						WEIGHT	
		DO NOT SCALE DRAWING				SCALE	1:3
						CAD FILE:	Tornado/chem/SWfiles
						SHEET	2 OF 7

SIZE B

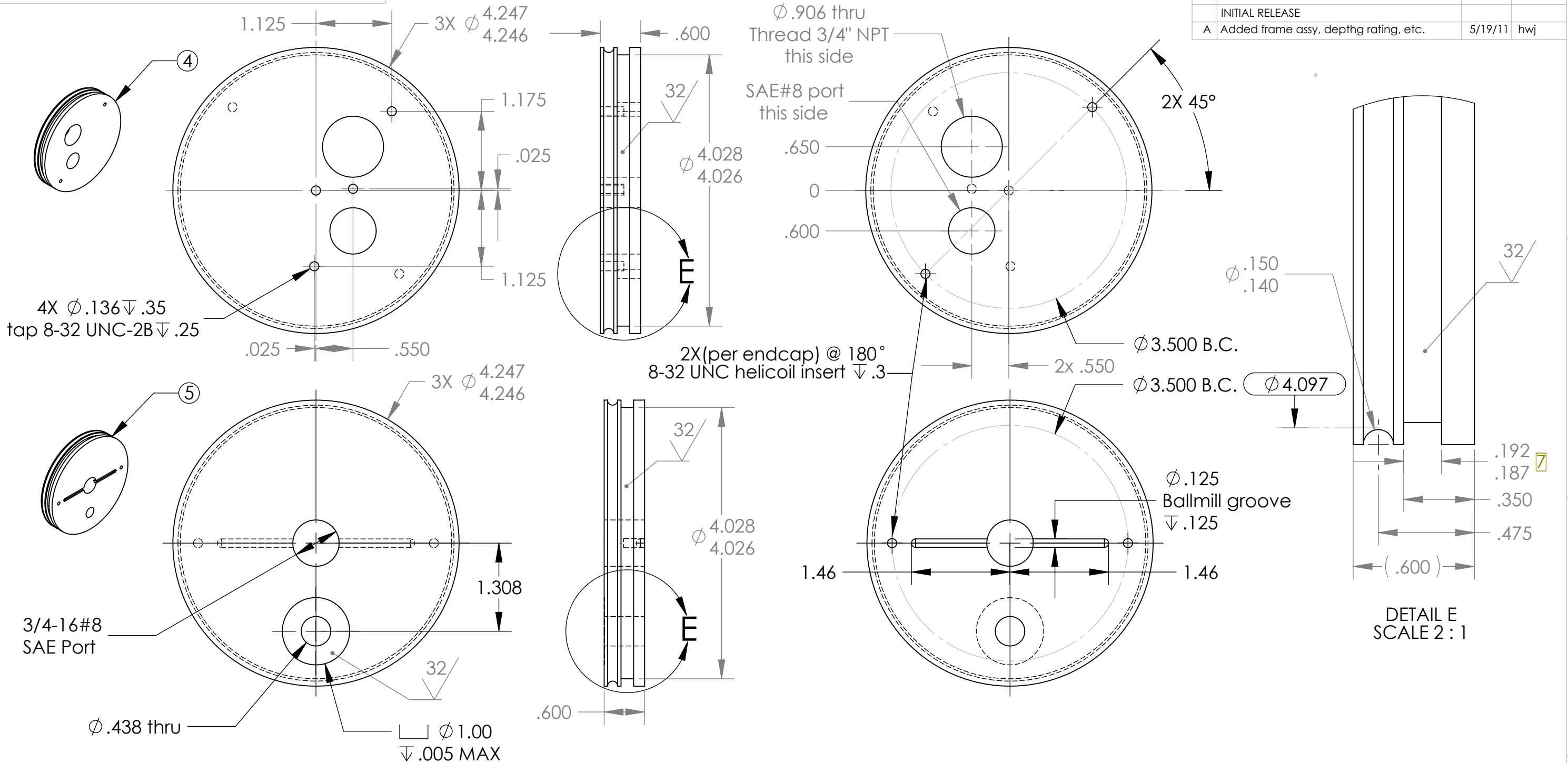
DWG. NO. 238jahaDuraFETHousingV2

REV. A



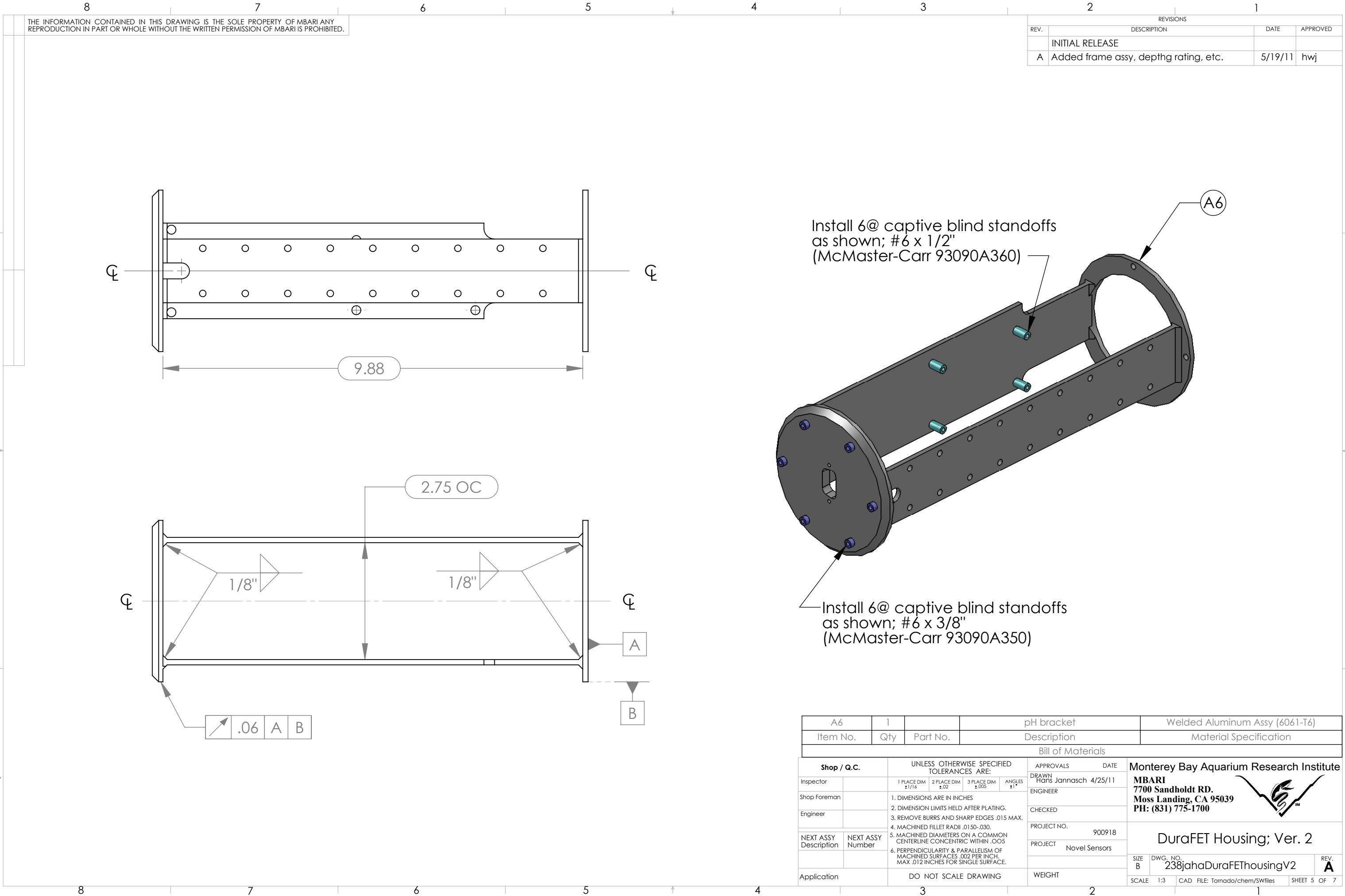
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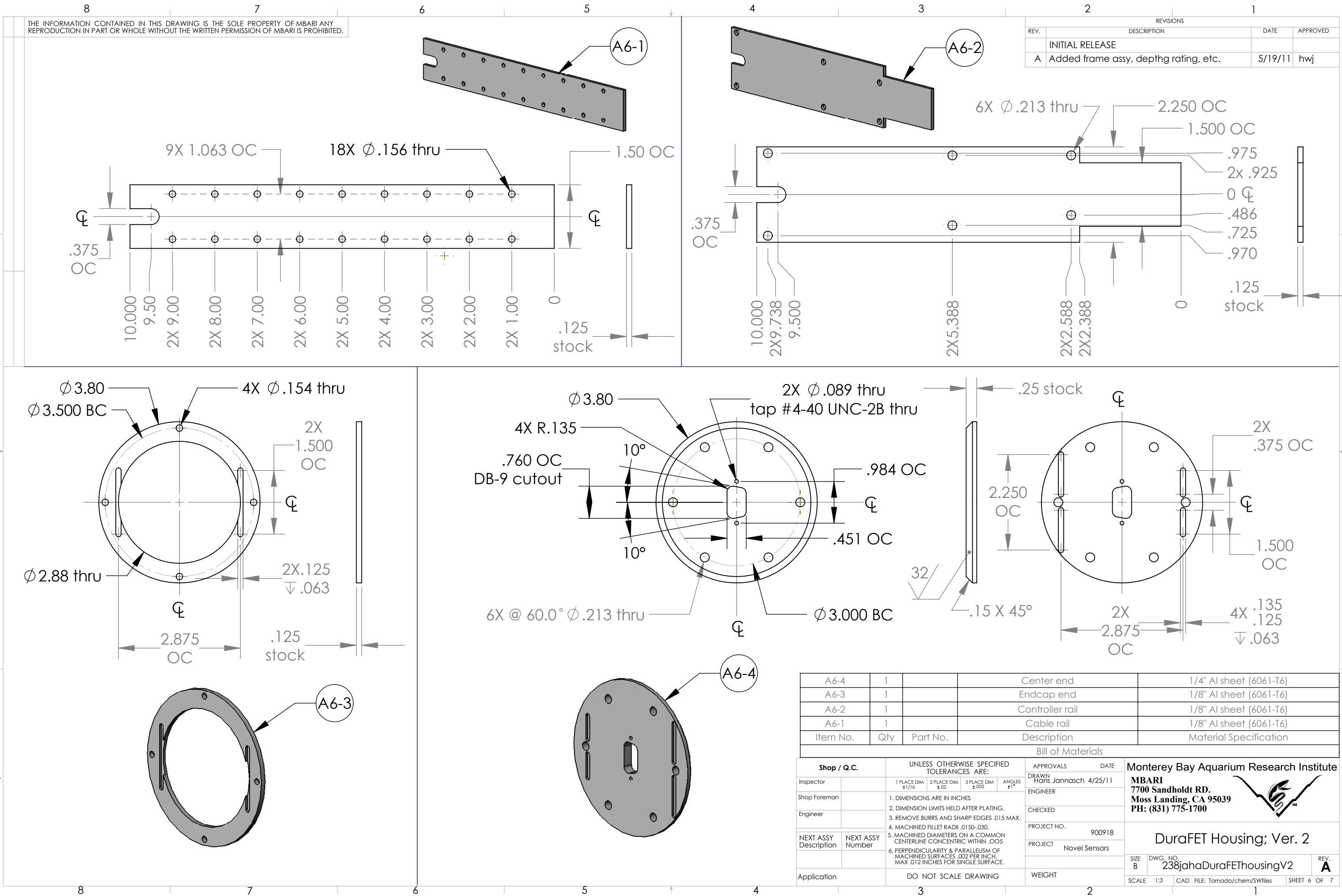
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		
A	Added frame assy, depthg rating, etc.	5/19/11	hwj



5	1		Endcap 2-Outside	Delrin (black)
4	1		Endcap 1-Outside	Delrin (black)
Item No.	Qty	Part No.	Description	Material Specification
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 Hans Jannasch	4/25/11					
Shop Foreman		1. DIMENSIONS ARE IN INCHES				ENGINEER						
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.				CHECKED						
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.				PROJECT NO.		900918				
		4. MACHINED FILLET RADII .0150-.030.				PROJECT		Novel Sensors		DuraFET Housing; Ver. 2		
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.								SIZE B		
Application		DO NOT SCALE DRAWING				WEIGHT				DWG. NO. 238jahaDuraFETHousingV2		
										REV. A		
										SCALE 1:3		
										CAD FILE: Tornado/chem/SWfiles		
										SHEET 4 OF 7		





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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
INITIAL RELEASE			
A	Added frame assy, depthg rating, etc.	5/19/11	hwj

A6-4	1		Center end	1/4" Al sheet (6061-T6)
A6-3	1		Endcap end	1/8" Al sheet (6061-T6)
A6-2	1		Controller rail	1/8" Al sheet (6061-T6)
A6-1	1		Cable rail	1/8" Al sheet (6061-T6)
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 4/25/11
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
						PROJECT Novel Sensors
NEXT ASSY Description	NEXT ASSY Number					
Application		DO NOT SCALE DRAWING				WEIGHT

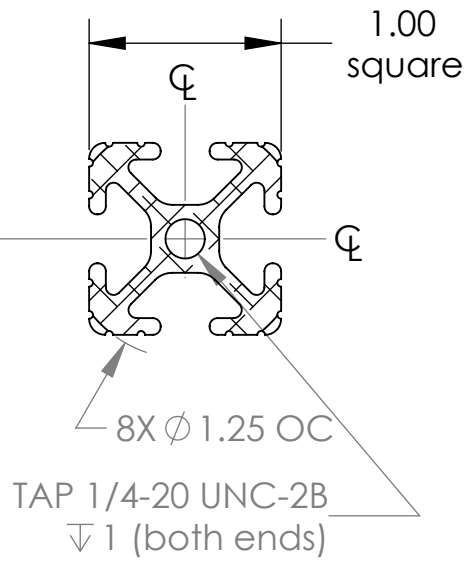
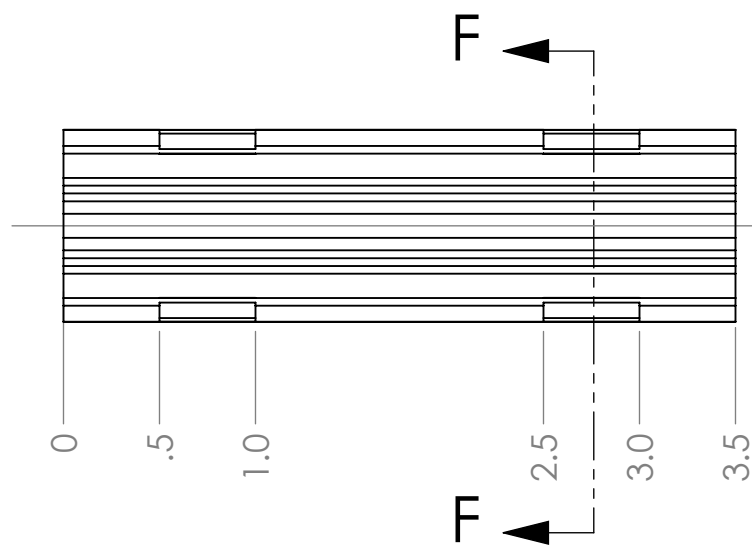
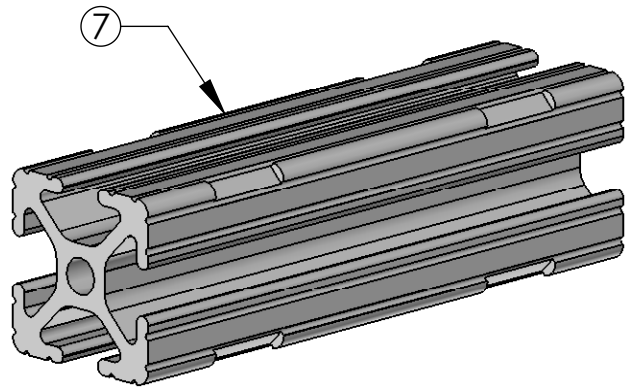
Monterey Bay Aquarium Research Institute			
MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700			
DuraFET Housing; Ver. 2			
SIZE B	DWG. NO. 238jahaDuraFETHousingV2	REV. A	
SCALE 1:3	CAD FILE: Tornado/chem/SWfiles	SHEET 6 OF 7	

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Moss Landing, CA 95039
PH: (831) 775-1700

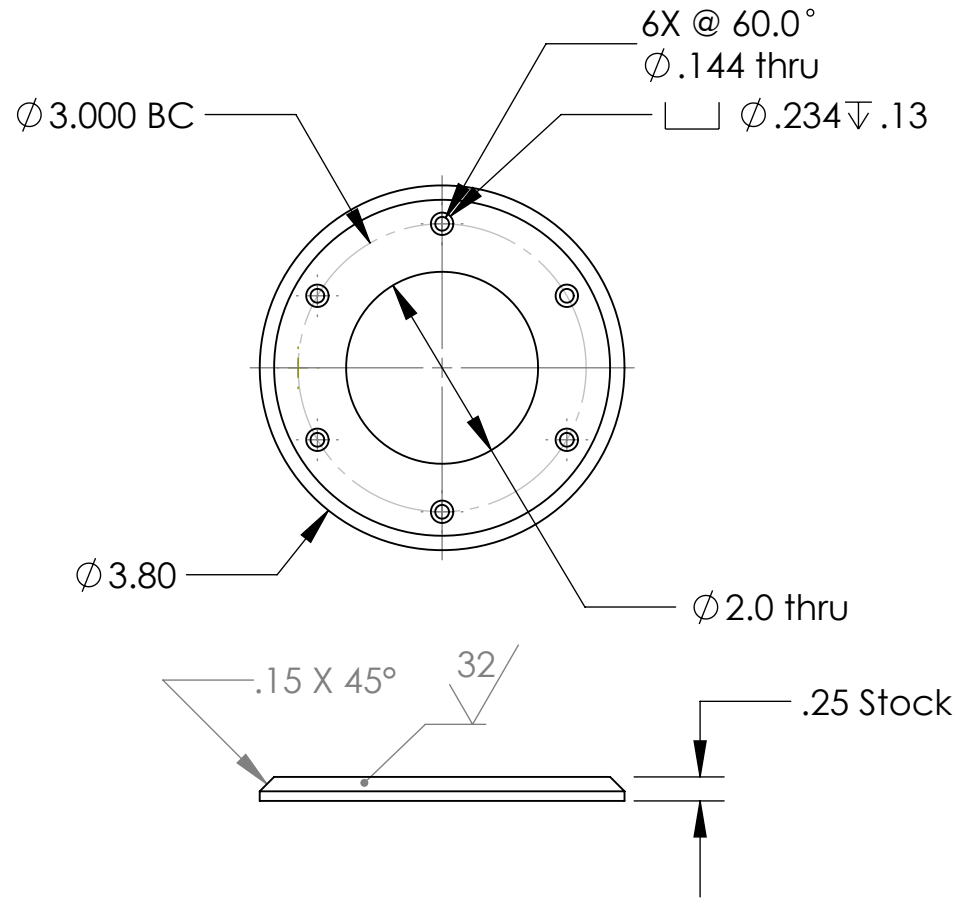
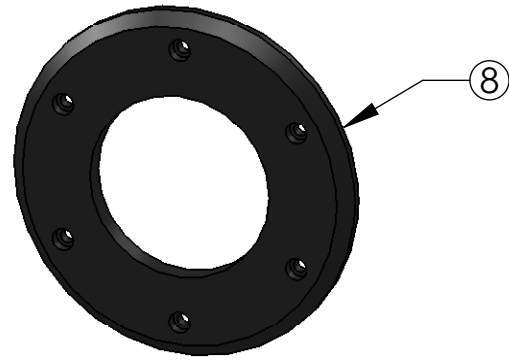
DuraFET Housing; Ver. 2

SIZE B	DWG. NO. 238jahaDuraFETHousingV2	REV. A
SCALE 1:3	CAD FILE: Tornado/chem/SWfiles	SHEET 6 OF 7

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SECTION F-F



8	1		Internal seal	HDPE
7	1		Battery support	1" 80-20 Aluminum strut
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		4 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.		
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.		
Application		DO NOT SCALE DRAWING		
		WEIGHT		
		SCALE 1:3	CAD FILE: Tornado/chem/SWfiles	SHEET 7 OF 7

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Moss Landing, CA 95039
PH: (831) 775-1700

DuraFET Housing; Ver. 2

SIZE B DWG. NO. 238jahaDuraFETHousingV2 REV. A