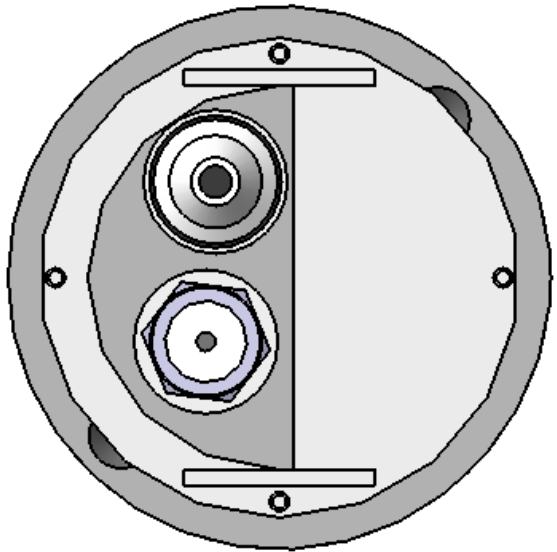
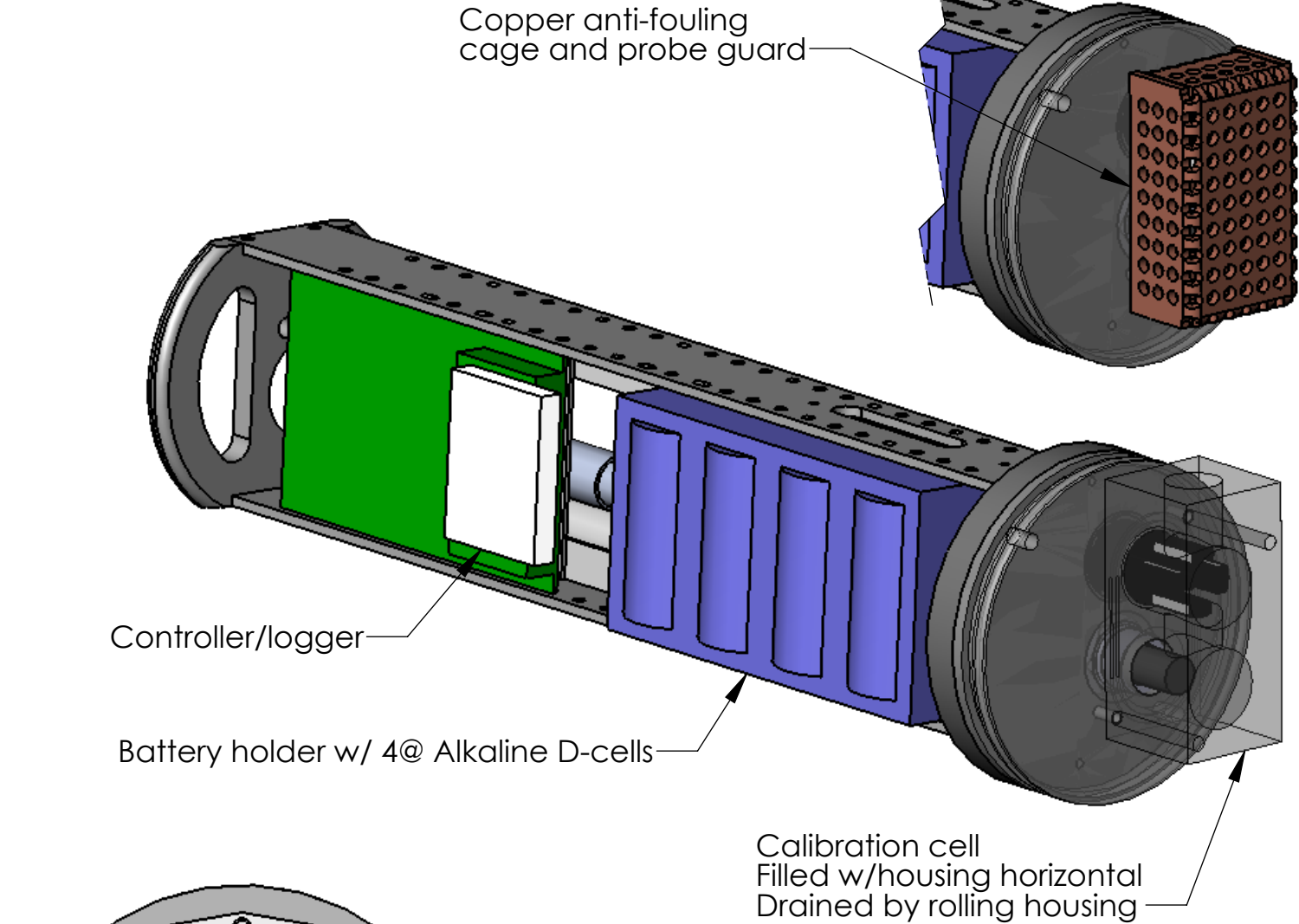
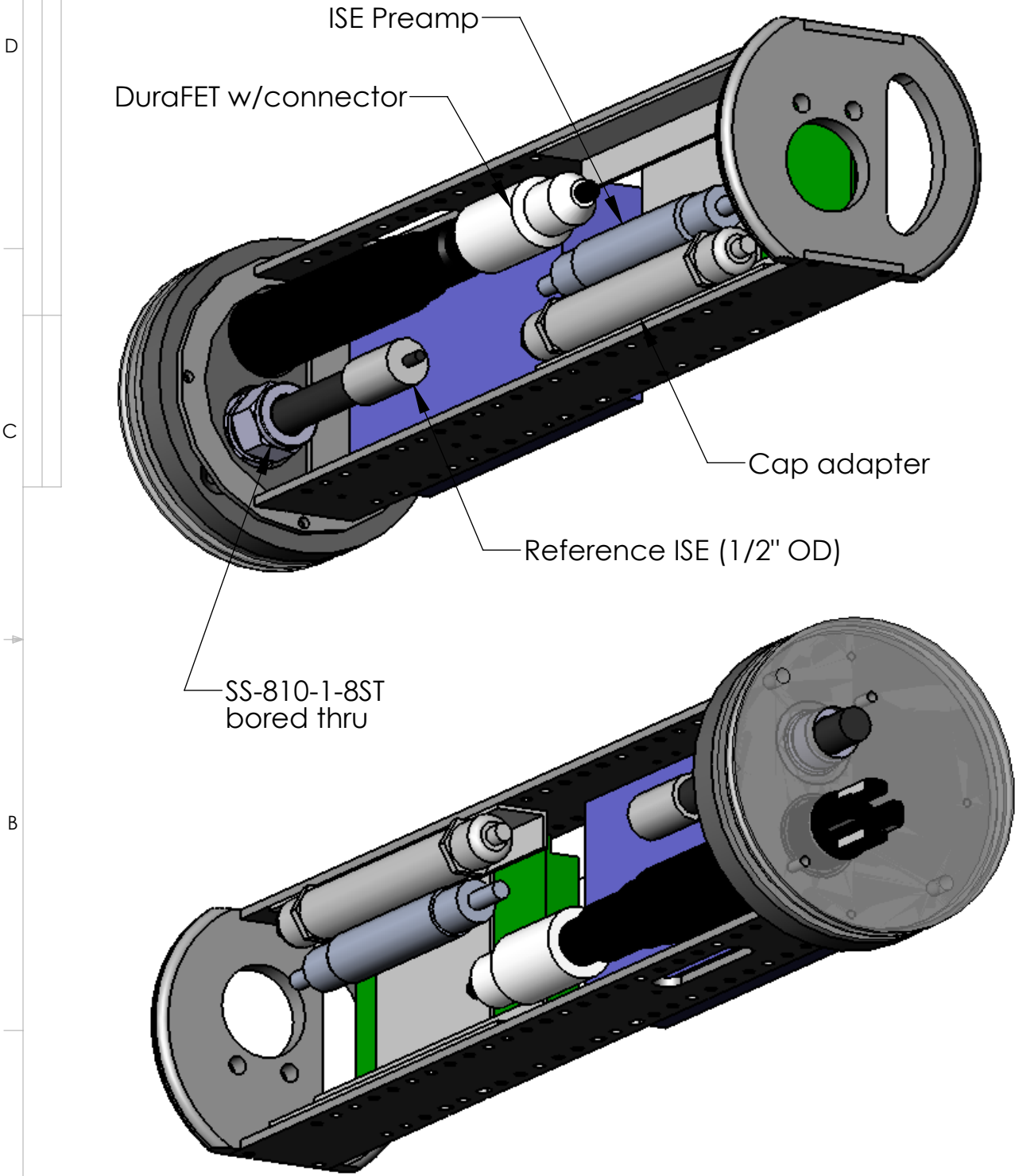


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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
INITIAL RELEASE			
A	For 1/2" ref electrodes, +DuraFET clearance	4/21/09	HWJ
B	Modified calibration cell	2/1/09	HWJ



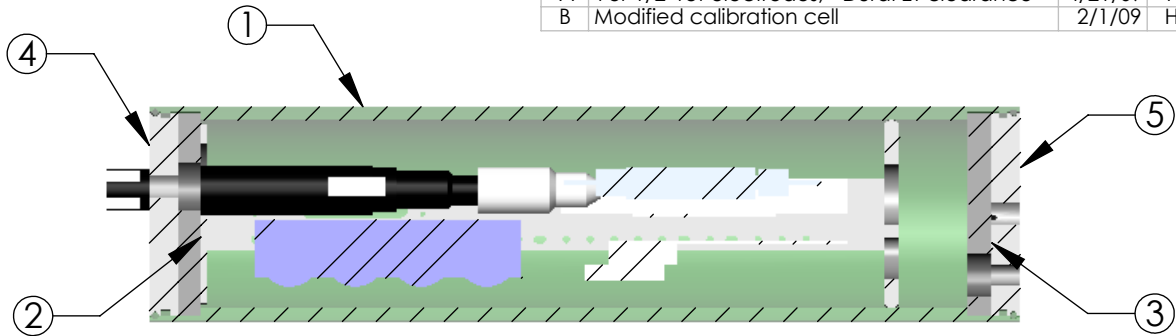
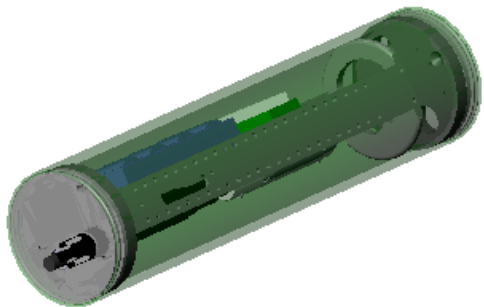
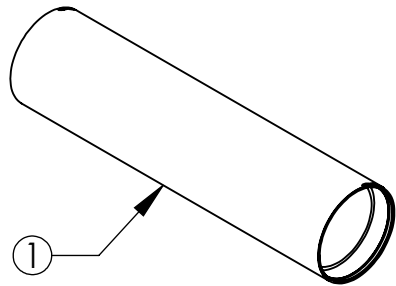
Parts modified for DuraFET housing: #2, #4, and #6. Housing, internal frame and rear endcap are same as ISUS housing.

ITEM NO.	QTY	PART NO.	DESCRIPTION	MATERIAL SPECIFICATION
7	1@		Anti fouling cage	1/8" Copper sheet
6	1@		Calibration cell	Clear PC or Acrylic
5	1@		Connector endcap	Black Delrin
4	1@		Sensor endcap	Black Delrin
3	1@		Connector support	Al 6061-T6 hard anodized
2	1@		Sensor support	Al 6061-T6 hard anodized
1	1@		Housing	Al 6061-T6 hard anodized

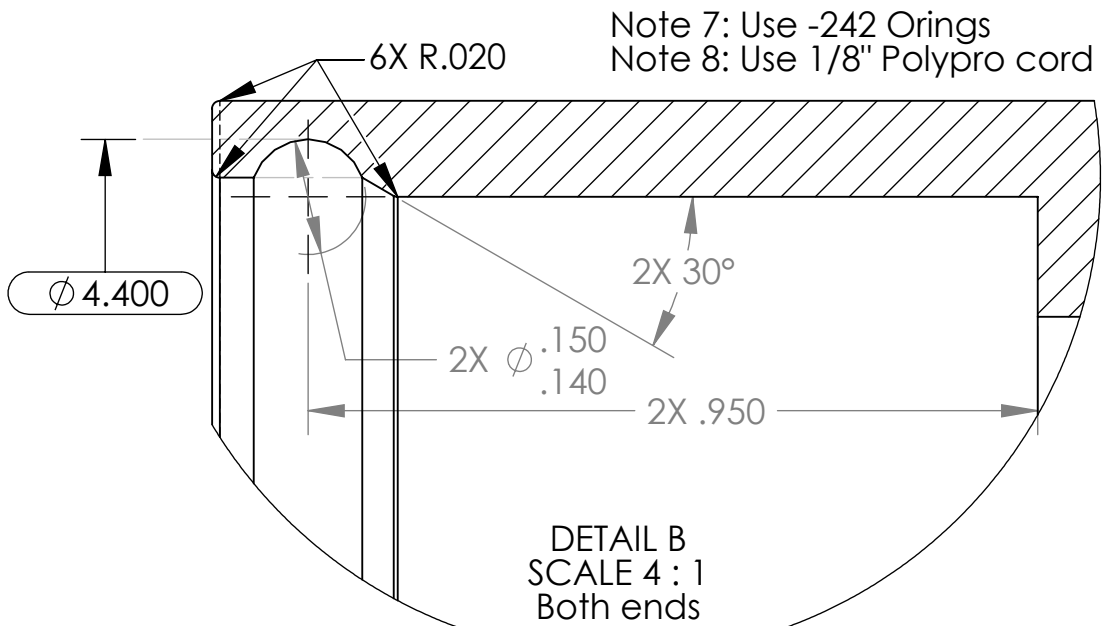
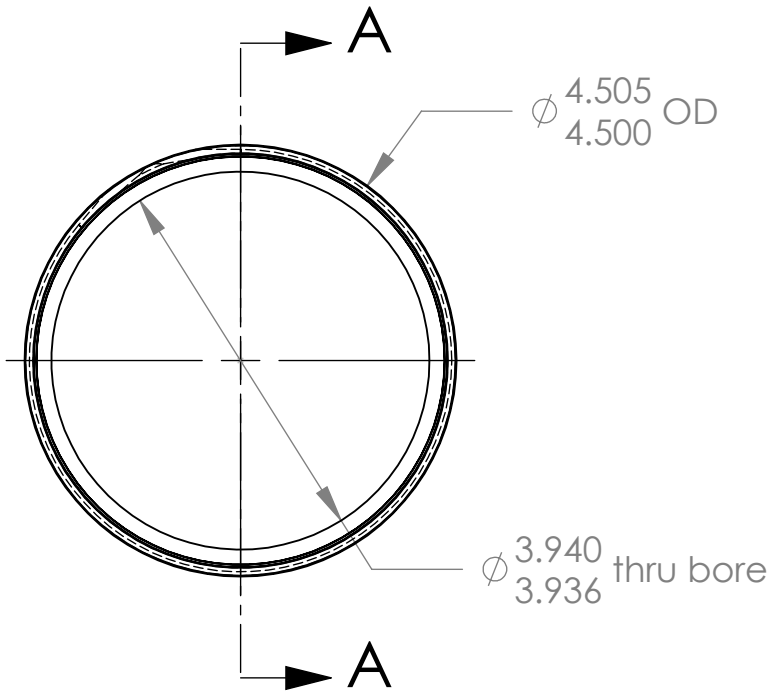
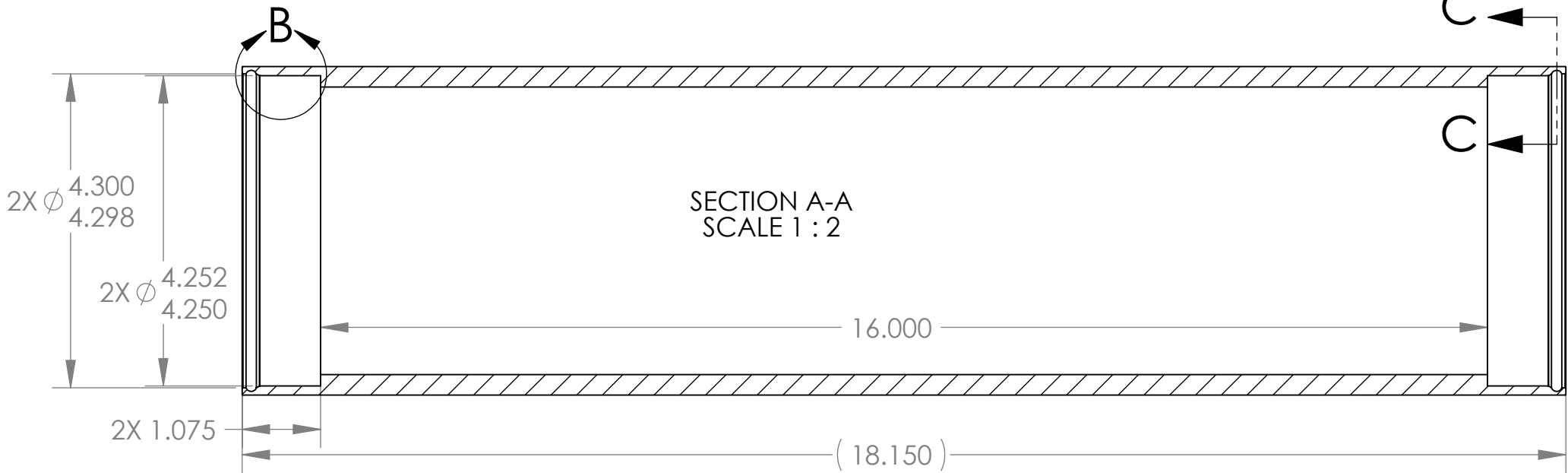
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE		Monterey Bay Aquarium Research Institute 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (408) 775-1700 DuraFET Housing					
1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN Hans Jannasch	10/20/08								
1. DIMENSIONS ARE IN INCHES				ENGINEER									
2. DIMENSION LIMITS HELD AFTER PLATING.				CHECKED									
3. REMOVE BURRS AND SHARP EDGES .015 MAX.				PROJECT NO.		900601							
4. MACHINED FILLET RADII .0150-.030.				PROJECT		Chemical Sensors		SIZE B		DWG. NO. 210jaha.DWG		REV B	
5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005				WEIGHT				SCALE		CAD FILE: TORNADO/CHEM/SWFILES		SHEET 6 OF 6	
6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.													
DO NOT SCALE DRAWING													

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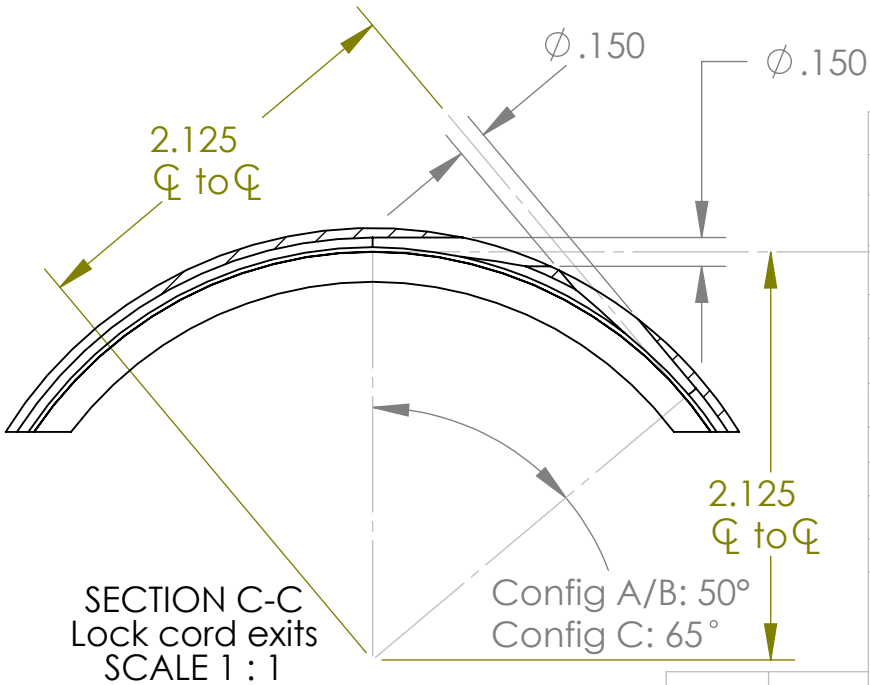
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
INITIAL RELEASE			
A	For 1/2" ref electrodes, +DuraFET clearance	4/21/09	HWJ
B	Modified calibration cell	2/1/09	HWJ



ASSEMBLY with SECTION



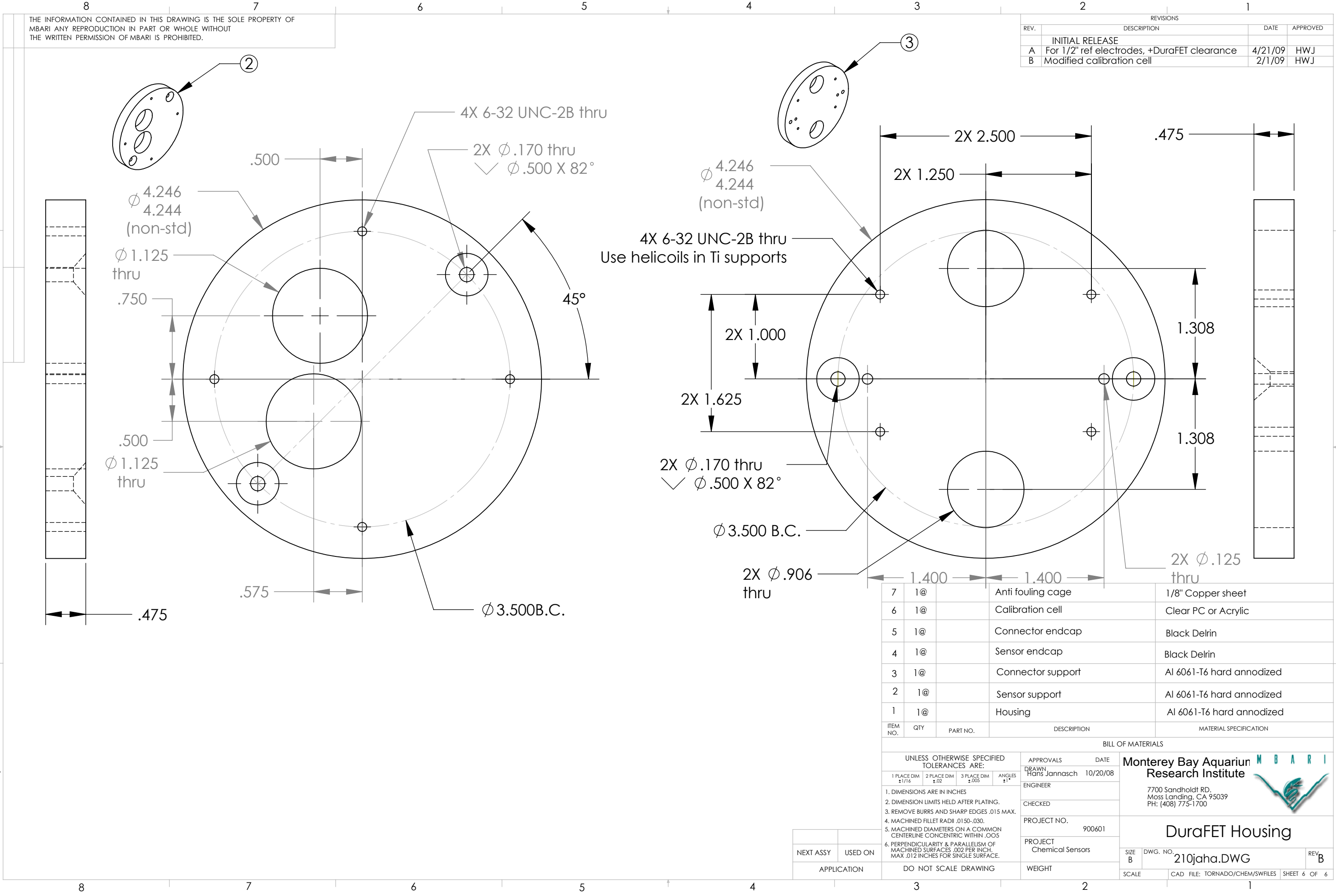
DETAIL B
SCALE 4 : 1
Both ends



SECTION C-C
Lock cord exits
SCALE 1 : 1

ITEM NO.	QTY	PART NO.	DESCRIPTION	MATERIAL SPECIFICATION
7	1@		Anti fouling cage	1/8" Copper sheet
6	1@		Calibration cell	Clear PC or Acrylic
5	1@		Connector endcap	Black Delrin
4	1@		Sensor endcap	Black Delrin
3	1@		Connector support	Al 6061-T6 hard anodized
2	1@		Sensor support	Al 6061-T6 hard anodized
1	1@		Housing	Al 6061-T6 hard anodized

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE	BILL OF MATERIALS	
1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN	Hans Jannasch	10/20/08	Monterey Bay Aquarium Research Institute	
1. DIMENSIONS ARE IN INCHES				ENGINEER			7700 Sandholdt RD. Moss Landing, CA 95039 PH: (408) 775-1700	
2. DIMENSION LIMITS HELD AFTER PLATING.				CHECKED			DuraFET Housing	
3. REMOVE BURRS AND SHARP EDGES .015 MAX.				PROJECT NO.		900601	SIZE B	
4. MACHINED FILLET RADII .015-.030.				PROJECT		Chemical Sensors	DWG. NO. 210jaha.DWG	
5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005				WEIGHT			SCALE	
6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.				DO NOT SCALE DRAWING			CAD FILE: TORNADO/CHEM/SWFILES	
NEXT ASSY				USED ON			SHEET 6 OF 6	
APPLICATION							REV B	



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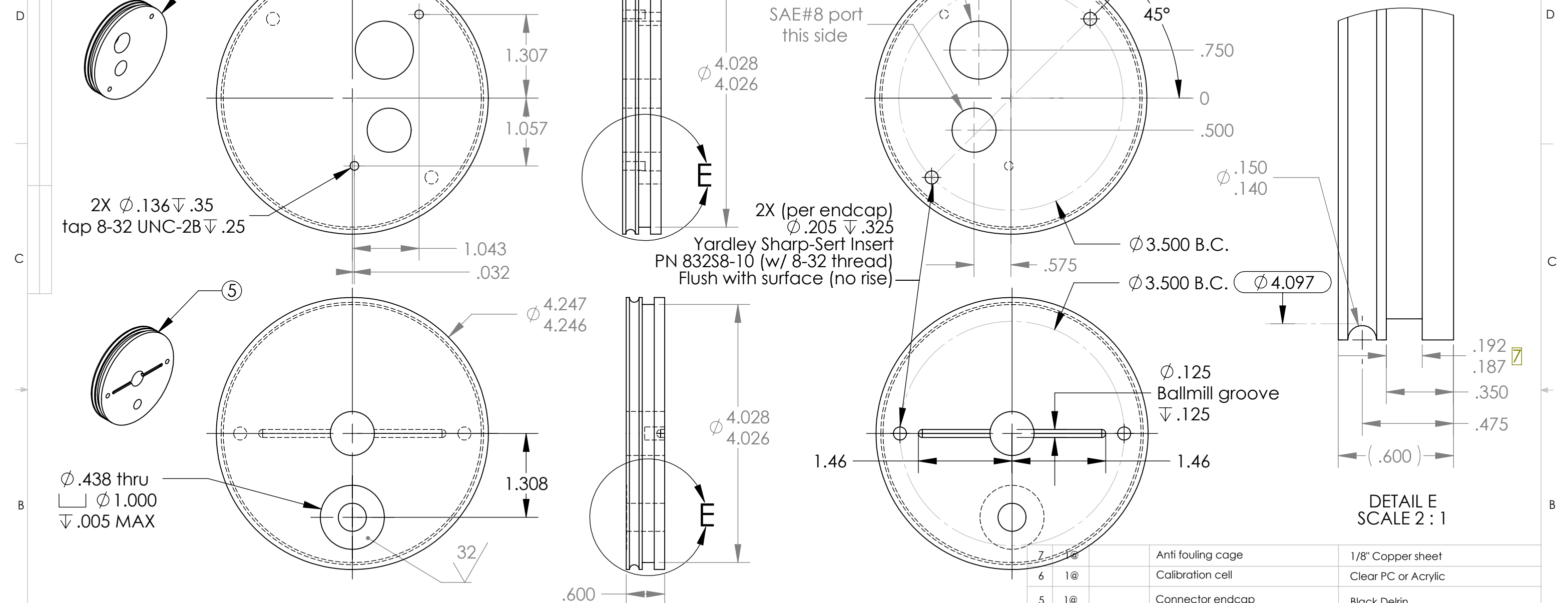
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
INITIAL RELEASE			
A	For 1/2" ref electrodes, +DuraFET clearance	4/21/09	HWJ
B	Modified calibration cell	2/1/09	HWJ

ITEM NO.	QTY	PART NO.	DESCRIPTION	MATERIAL SPECIFICATION
7	1@		Anti fouling cage	1/8" Copper sheet
6	1@		Calibration cell	Clear PC or Acrylic
5	1@		Connector endcap	Black Delrin
4	1@		Sensor endcap	Black Delrin
3	1@		Connector support	Al 6061-T6 hard annodized
2	1@		Sensor support	Al 6061-T6 hard annodized
1	1@		Housing	Al 6061-T6 hard annodized

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE	Monterey Bay Aquarium Research Institute	
1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN	Hans Jannasch	10/20/08		
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				
				CHECKED			7700 Sandholdt RD. Moss Landing, CA 95039 PH: (408) 775-1700	
				PROJECT NO.	900601			
				PROJECT	Chemical Sensors		DuraFET Housing	
				WEIGHT				
NEXT ASSY		USED ON		SIZE B		DWG. NO. 210jaha.DWG		REV B
APPLICATION		DO NOT SCALE DRAWING		SCALE		CAD FILE: TORNADO/CHEM/SWFILES		SHEET 6 OF 6

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		
A	For 1/2" ref electrodes, +DuraFET clearance	4/21/09	HWJ
B	Modified calibration cell	2/1/09	HWJ



DETAIL E
SCALE 2 : 1

7	1@		Anti fouling cage	1/8" Copper sheet
6	1@		Calibration cell	Clear PC or Acrylic
5	1@		Connector endcap	Black Delrin
4	1@		Sensor endcap	Black Delrin
3	1@		Connector support	Al 6061-T6 hard anodized
2	1@		Sensor support	Al 6061-T6 hard anodized
1	1@		Housing	Al 6061-T6 hard anodized
ITEM NO.	QTY	PART NO.	DESCRIPTION	MATERIAL SPECIFICATION

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS DATE		Monterey Bay Aquarium Research Institute			
1 PLACE DIM ±1/16		2 PLACE DIM ±.02		3 PLACE DIM ±.005		ANGLES ±1°		DRAWN Hans Jannasch 10/20/08	
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	
								CHECKED	
PROJECT NO.								900601	
PROJECT Chemical Sensors									
DO NOT SCALE DRAWING								WEIGHT	
SIZE B		DWG. NO.		210jaha.DWG		REV. B			
SCALE		CAD FILE: TORNADO/CHEM/SWFELS		SHEET 6 OF 6					

Monterey Bay Aquarium Research Institute

7700 Sandholdt RD.
Moss Landing, CA 95039
PH: (408) 775-1700

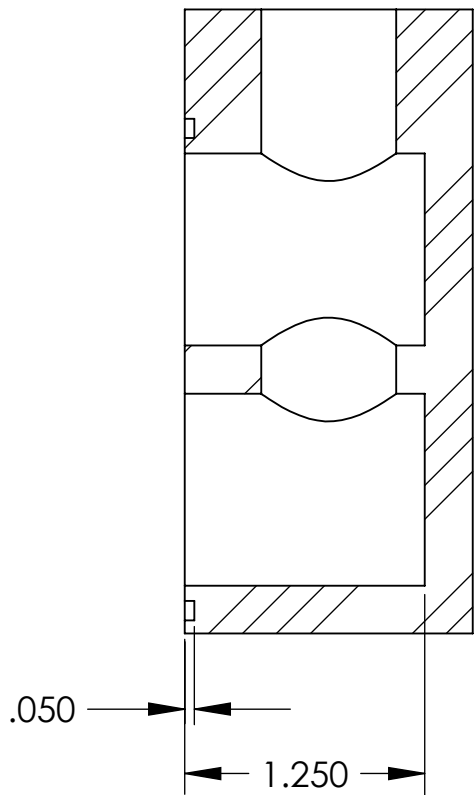
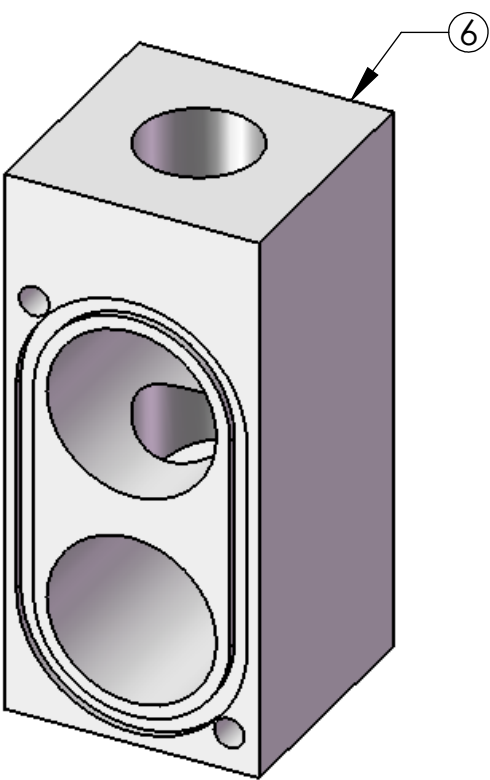
The logo for the Monterey Bay Aquarium Research Institute (MBARI) features the letters "MBARI" in a stylized, teal-colored font. Below the letters is a graphic of a blue and white wave, with a small, stylized fish or marine creature integrated into the wave's crest.

DuraFET Housing

G. NO. 210jaha.DWG	REV B
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SCALE	CAD FILE: TORNADO/CHEM/SWF/FILES	SHEET 6 OF 6
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		
A	For 1/2" ref electrodes, +DuraFET clearance	4/21/09	HWJ
B	Modified calibration cell	2/1/09	HWJ



SECTION F-F

7	1@		Anti fouling cage	1/8" Copper sheet
6	1@		Calibration cell	Clear PC or Acrylic
5	1@		Connector endcap	Black Delrin
4	1@		Sensor endcap	Black Delrin
3	1@		Connector support	Al 6061-T6 hard anodized
2	1@		Sensor support	Al 6061-T6 hard anodized
1	1@		Housing	Al 6061-T6 hard anodized
ITEM NO.	QTY	PART NO.	DESCRIPTION	MATERIAL SPECIFICATION

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:					APPROVALS		DATE		Monterey Bay Aquarium Research Institute  7700 Sandholdt RD. Moss Landing, CA 95039 PH: (408) 775-1700 DuraFET Housing SIZE B DWG. NO. 210jaha.DWG REV B SCALE CAD FILE: TORNADO/CHEM/SWFILES SHEET 6 OF 6	
1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN Hans Jannasch	10/20/08	ENGINEER				
1. DIMENSIONS ARE IN INCHES				CHECKED						
2. DIMENSION LIMITS HELD AFTER PLATING.				PROJECT NO.						
3. REMOVE BURRS AND SHARP EDGES .015 MAX.				900601						
4. MACHINED FILLET RADII .0150-.030.				PROJECT		Chemical Sensors				
5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005				WEIGHT						
6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURF.										
DO NOT SCALE DRAWING										

