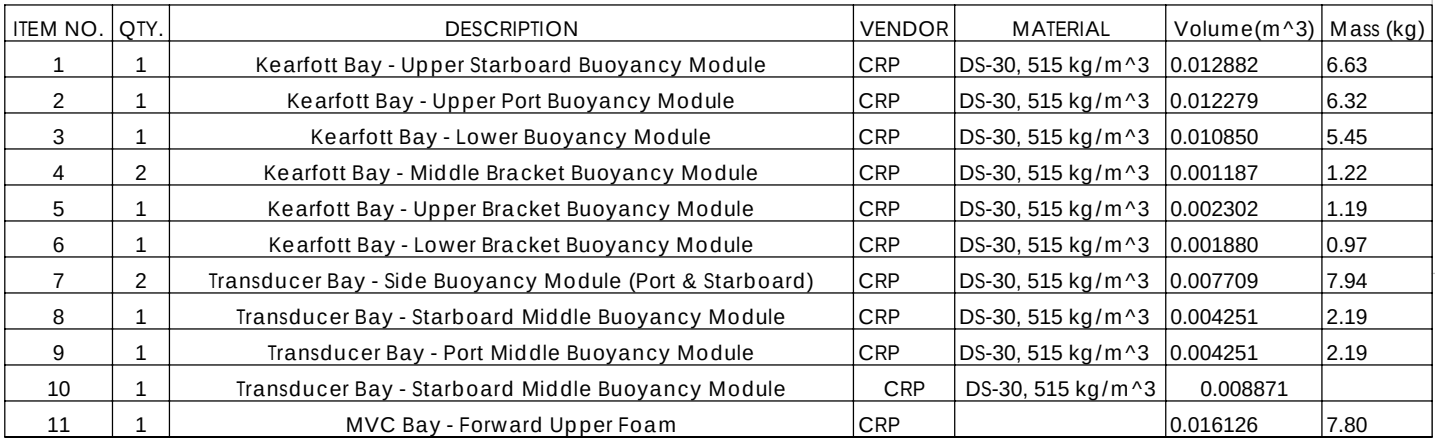
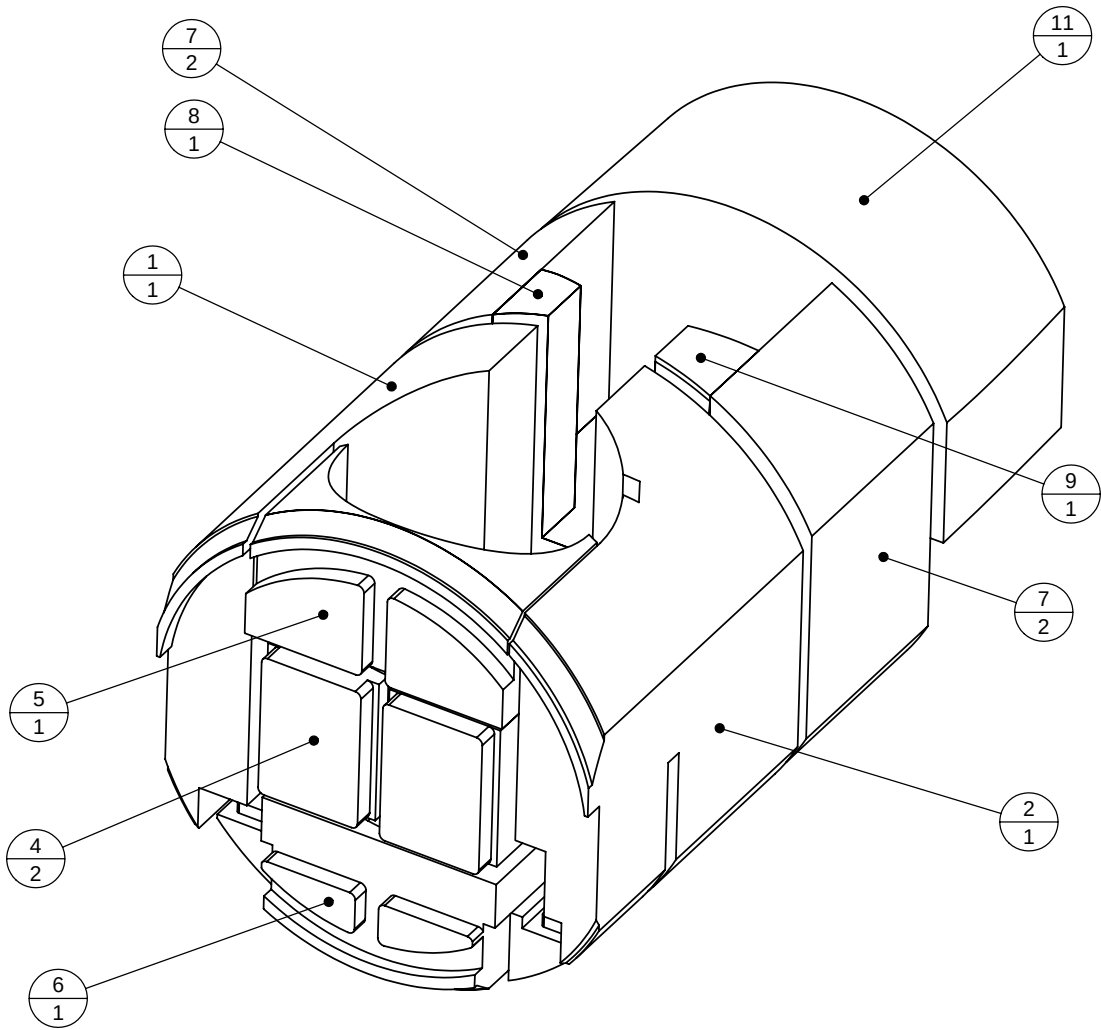


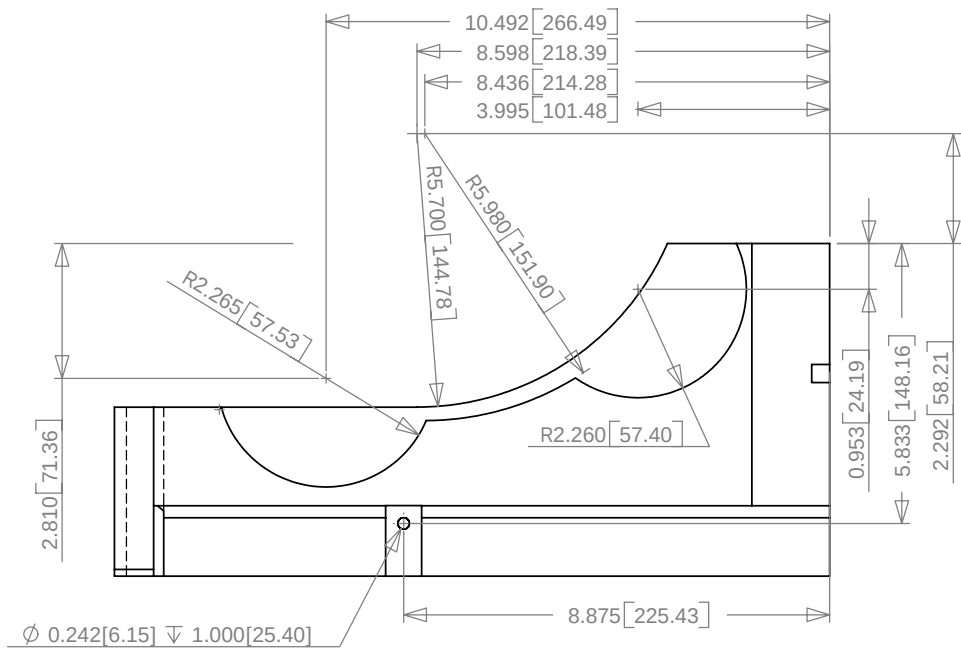
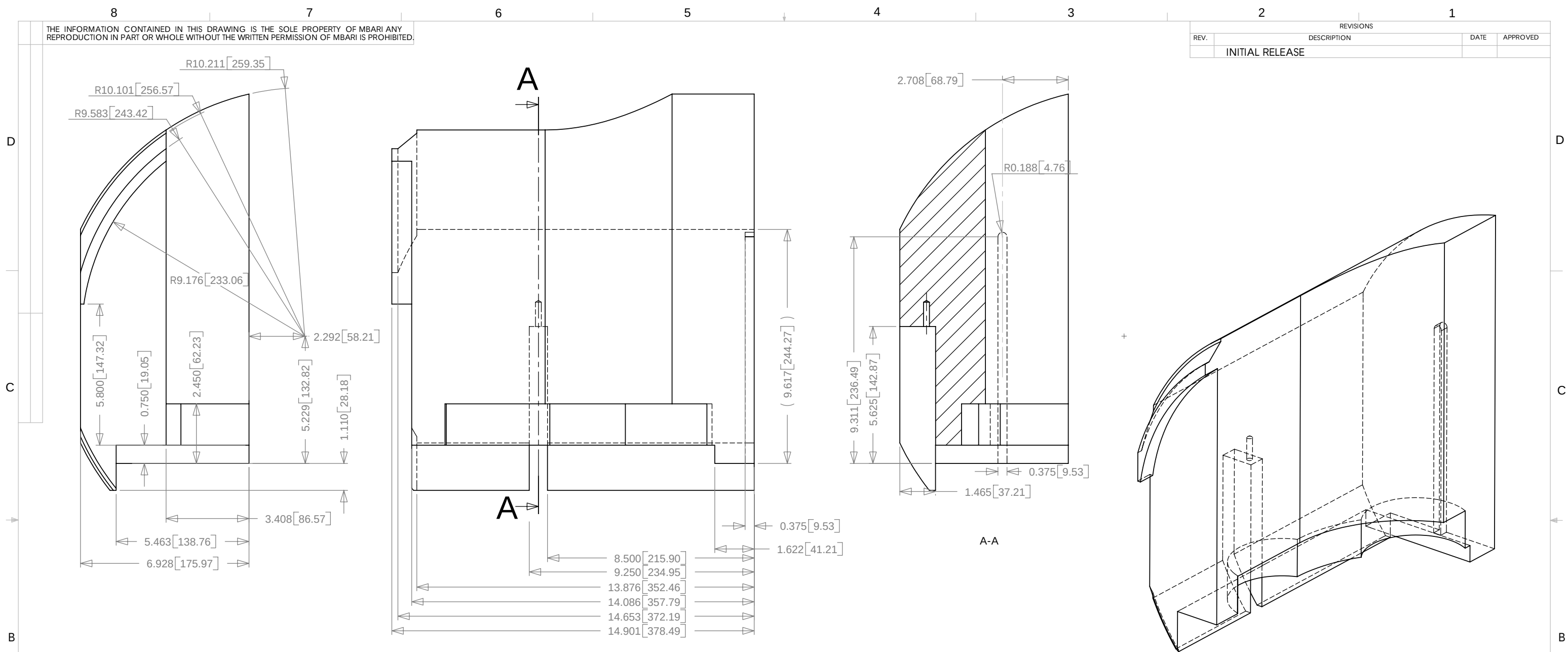


Monterey Bay Aquarium Research Institute

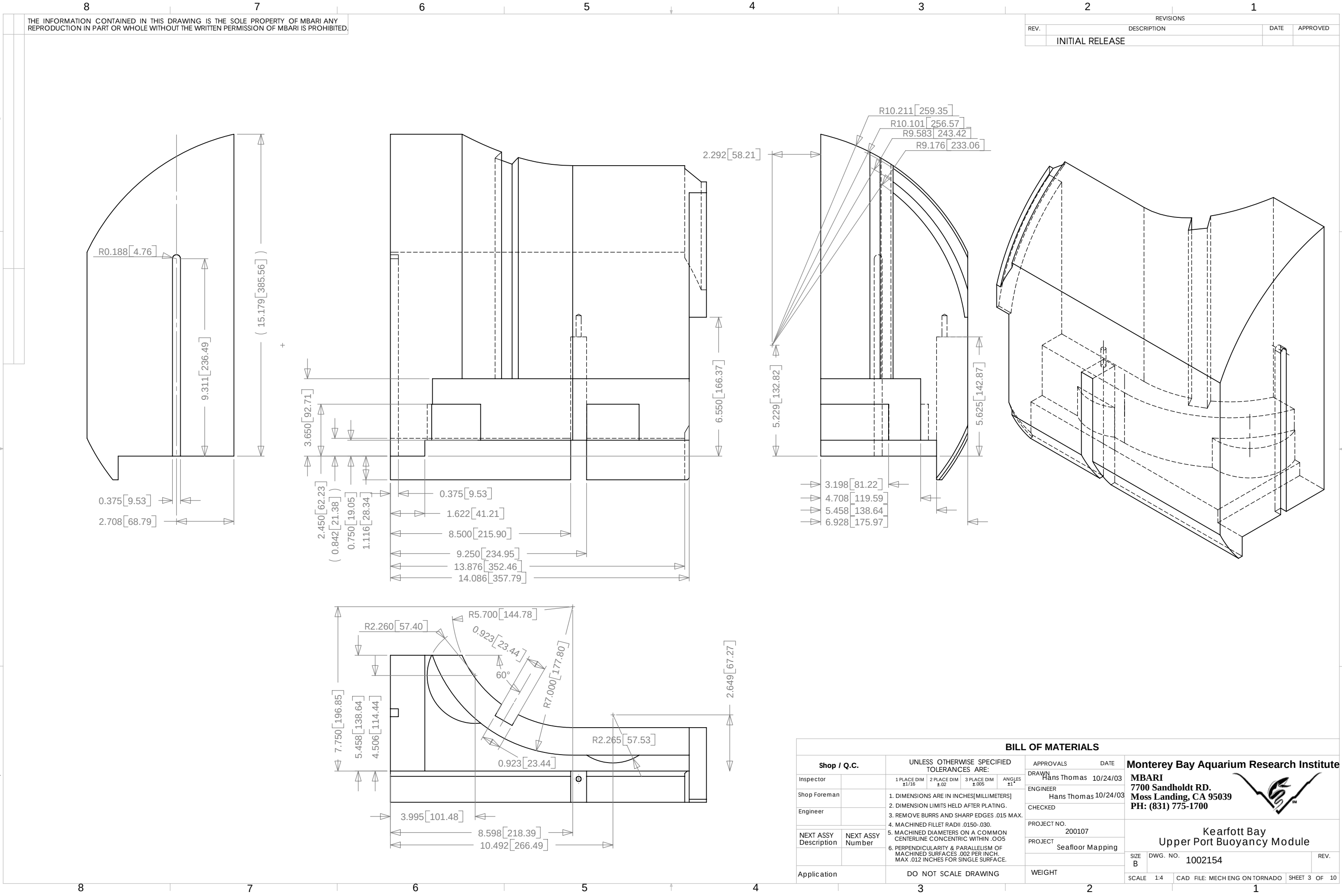
MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700			
Seafloor Mapping Tail - Syntactic Foam Assembly			
SIZE B	DWG. NO. 1002155	REV.	
SCALE 1:7	CAD FILE: MECH ENG ON TORNADO	SHEET 1	OF 10

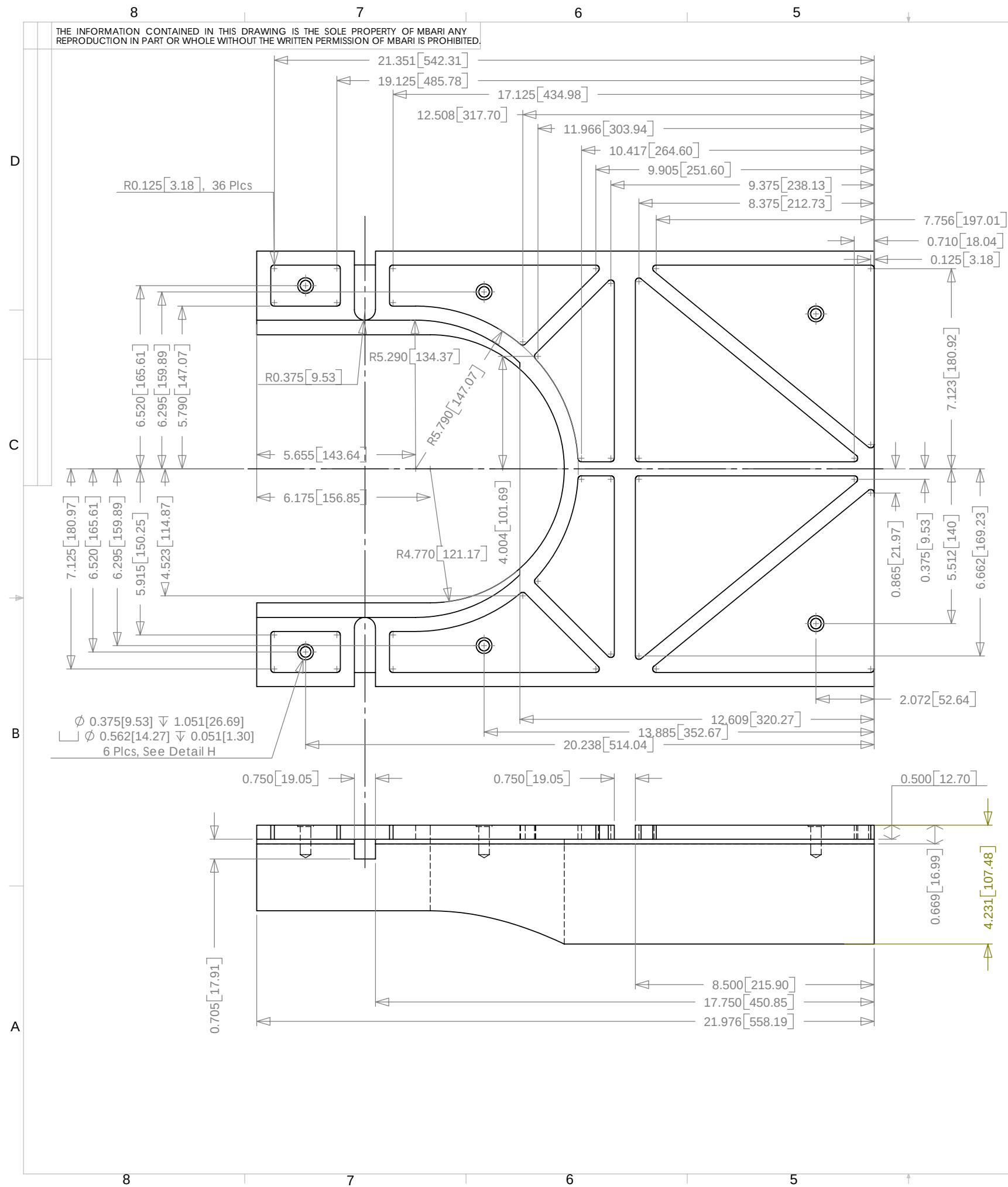
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REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		

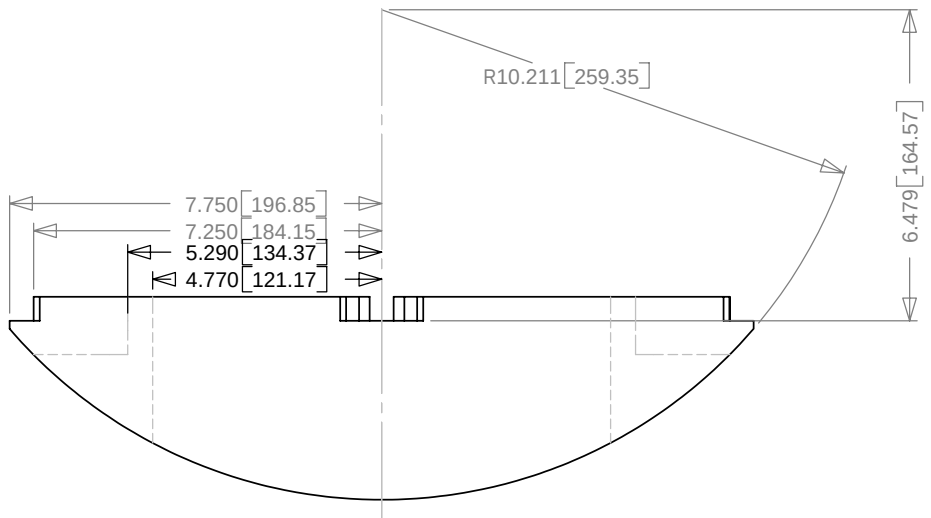
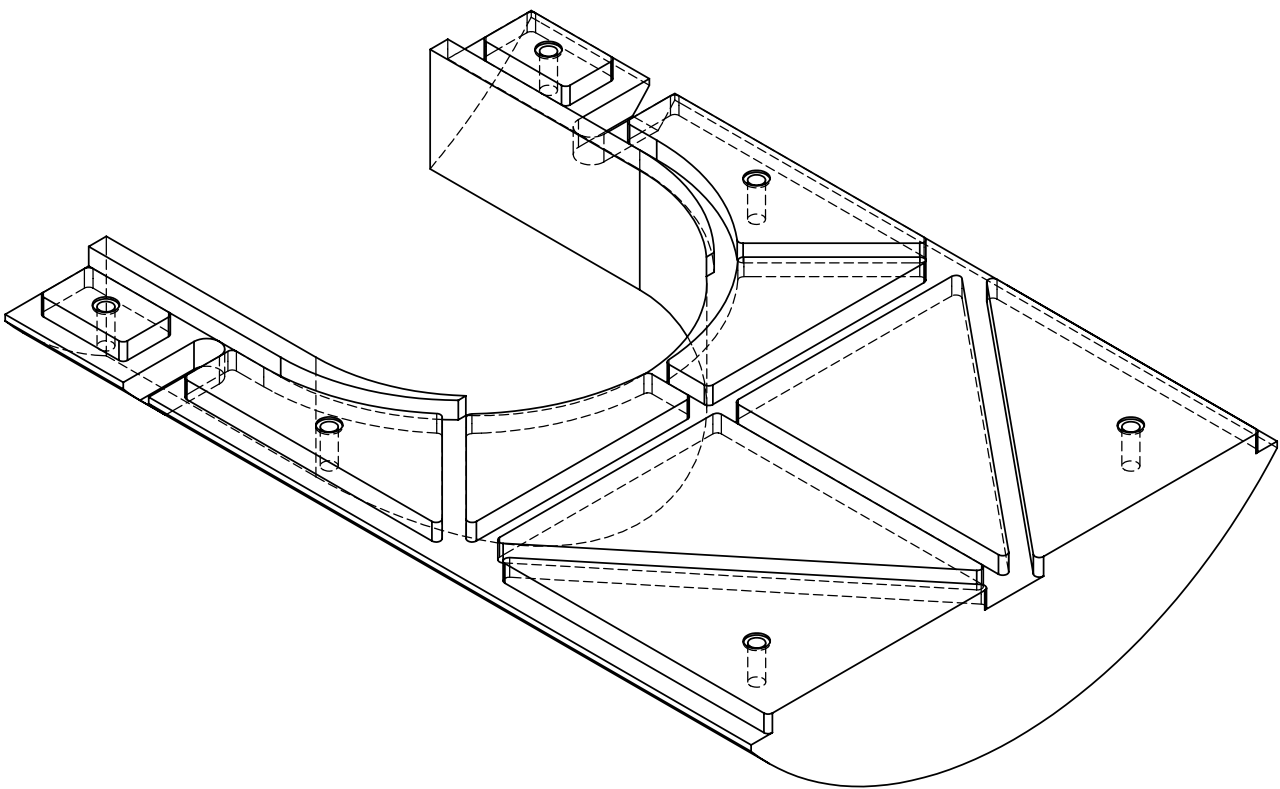


BILL OF MATERIALS									
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE	
Inspector		1 PLACE DIM ±1/32	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN Hans Thomas	10/24/03		
Shop Foreman		1. DIMENSIONS ARE IN INCHES[MILLIMETERS] 2. DIMENSION LIMITS HELD AFTER PLATING.] 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILET 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 Hans Thomas	10/24/03		
Engineer						CHECKED			
NEXT ASSY Description	NEXT ASSY Number					PROJECT NO.	200107		
		PROJECT	Seafloor Mapping			Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700 			
Application		DO NOT SCALE DRAWING				WEIGHT		SIZE B DWG. NO. 1002134 REV.	
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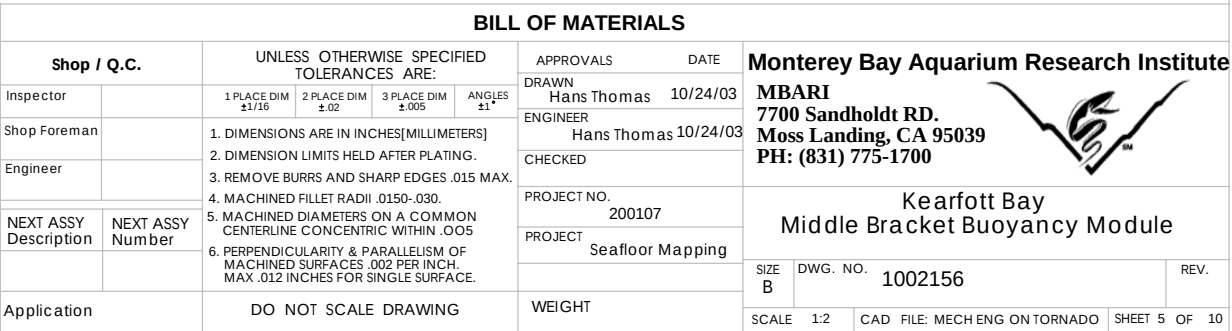
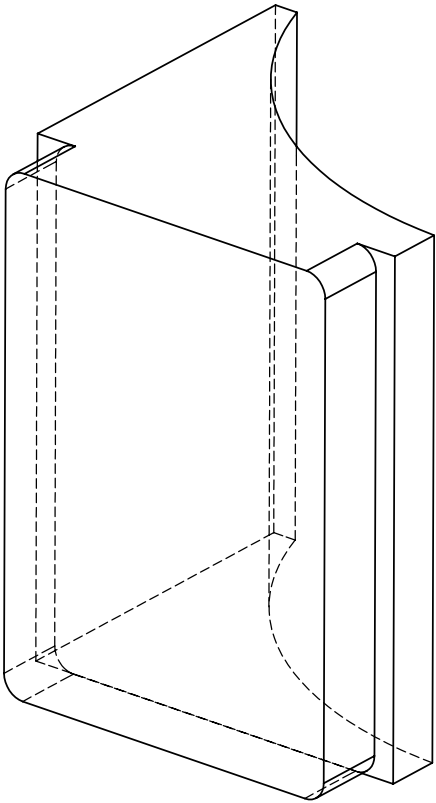




REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		



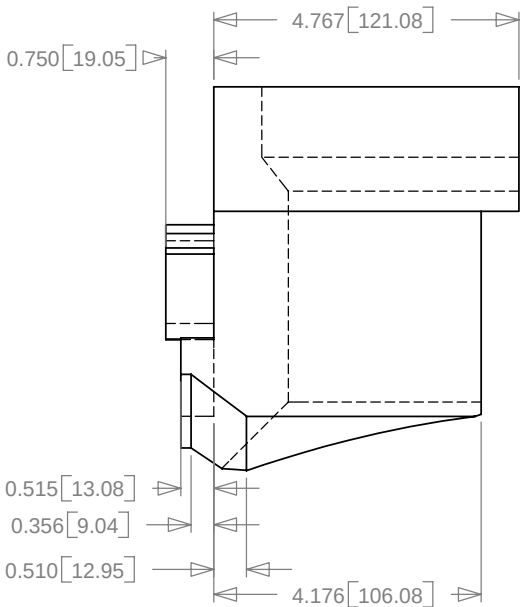
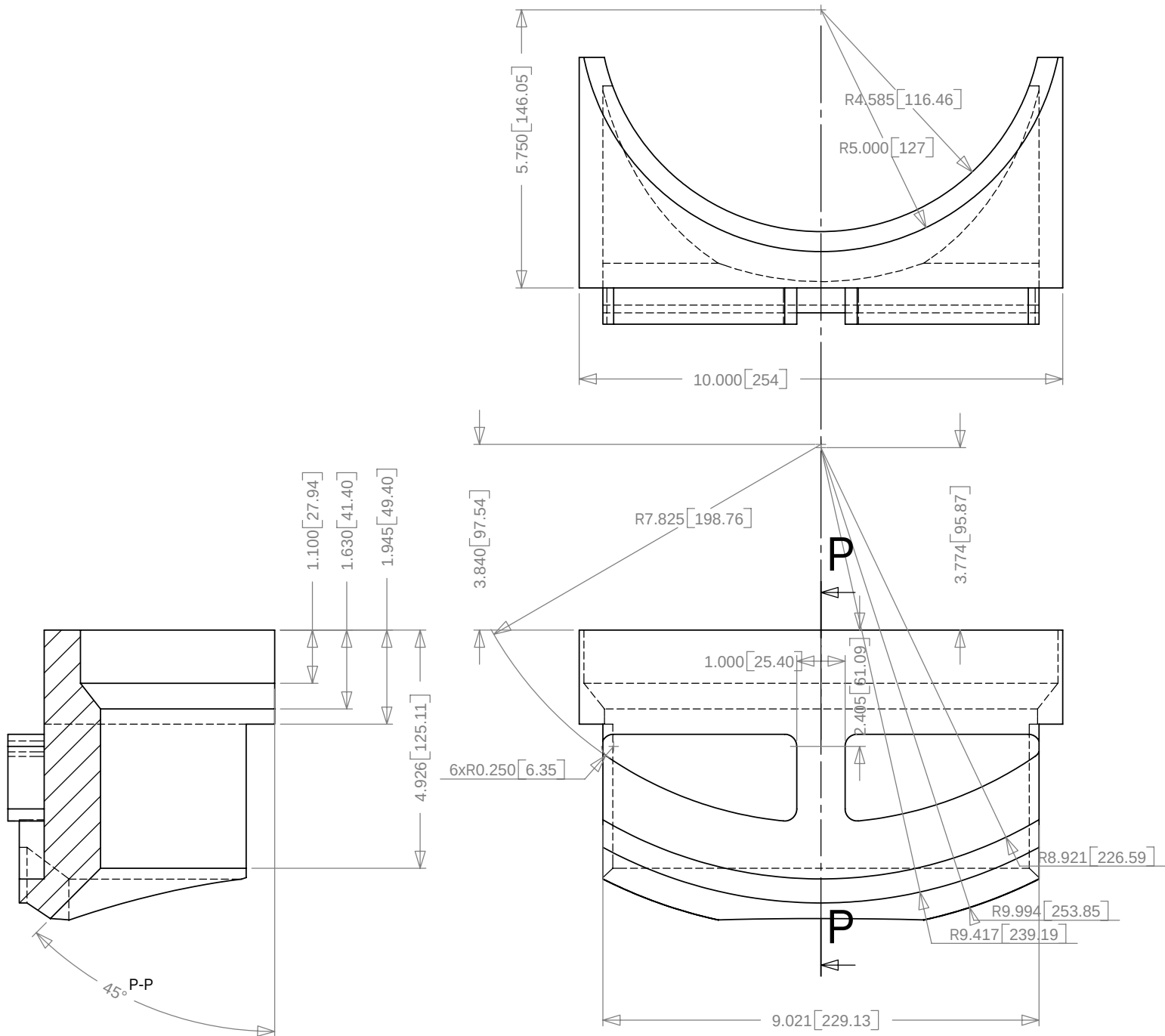
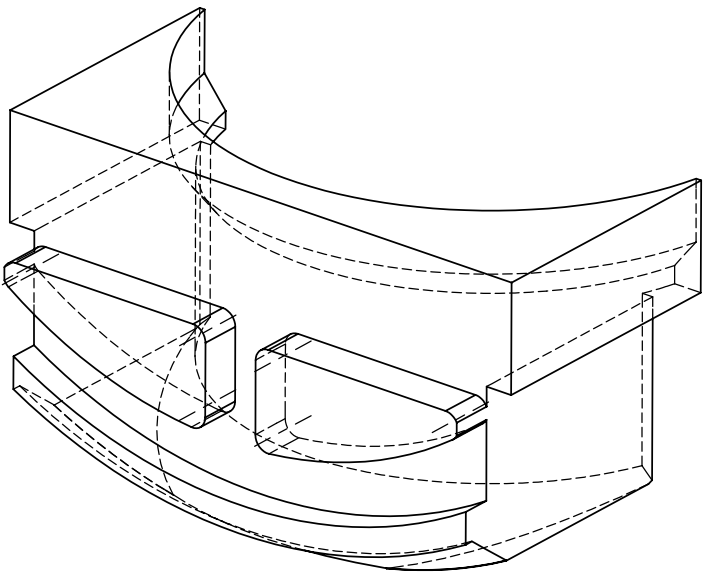
BILL OF MATERIALS									
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS		DATE		Monterey Bay Aquarium Research Institute	
Inspector		1 PLACE DIM ±.1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1'	DRAWN Thomas	10/20/03	MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700 	
Shop Foreman		1. DIMENSIONS ARE IN INCHES[MILLIMETERS] 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADIII .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 Thomas	10/20/03	Kearfott Bay Lower Buoyancy Module		
Engineer					CHECKED				
NEXT ASSY Description	NEXT ASSY Number				PROJECT NO. 200107				
					PROJECT Seafloor Mapping				
Application		DO NOT SCALE DRAWING			WEIGHT				
		3				2		1	
						SCALE	1:4	CAD FILE: MECH ENG ON TORNADO	SHEET 4 OF 10



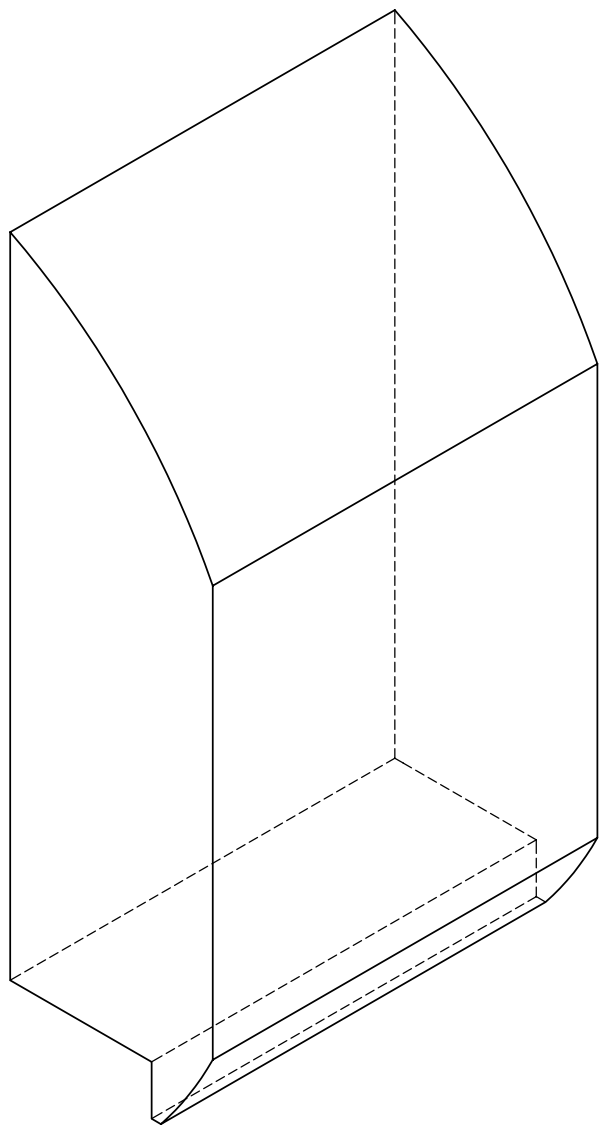
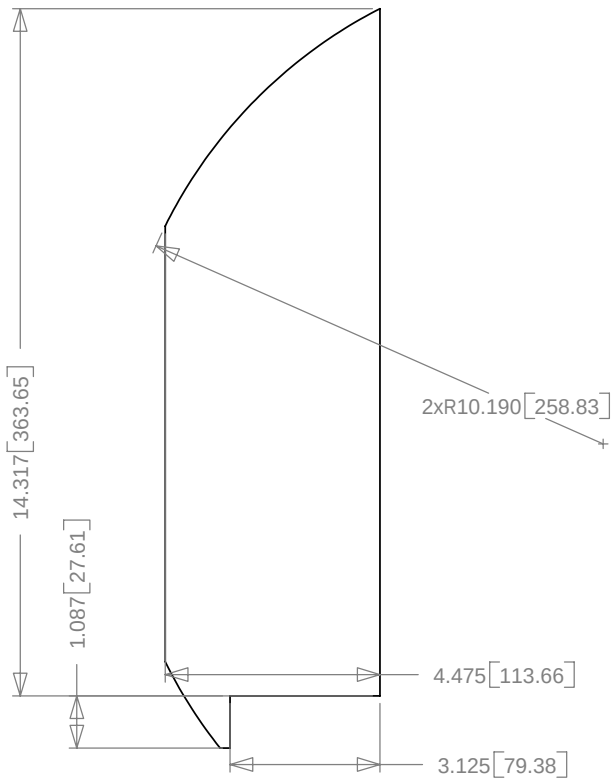
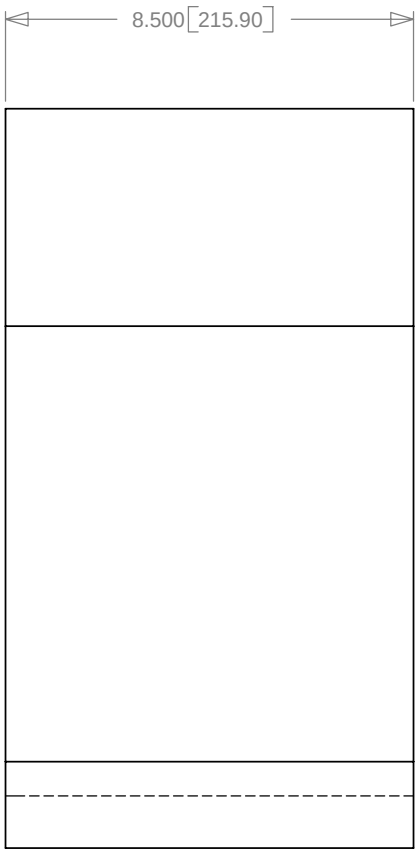
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		

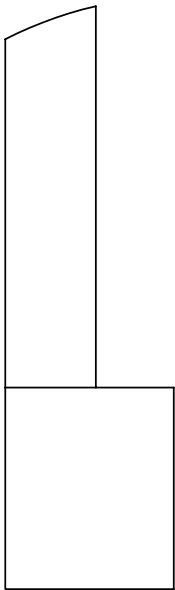


BILL OF MATERIALS										
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:			APPROVALS		DATE		Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700 	
Inspector		1 PLACE DIM ±1/32	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN Hans Thomas	10/24/03			
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILET RADII .0150-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER IN QUINCH. MAX .012 INCHES FOR SINGLE SURFACE.				ENGINEER Hans Thomas	10/24/03			
Engineer						CHECKED				
NEXT ASSY Description	NEXT ASSY Number	DO NOT SCALE DRAWING				PROJECT NO. 200107		Kearfott Bay Lower Bracket Buoyancy Module SIZE B DWG. NO. 1002158 REV. SCALE 1:3 CAD FILE: MECH ENG ON TORNADO SHEET 7 OF 10		
						PROJECT Seafloor Mapping				
Application						WEIGHT				

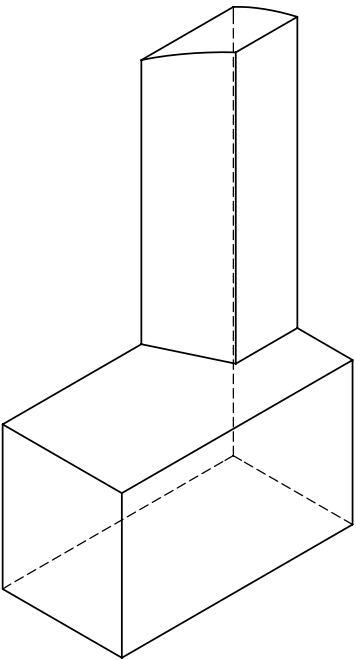
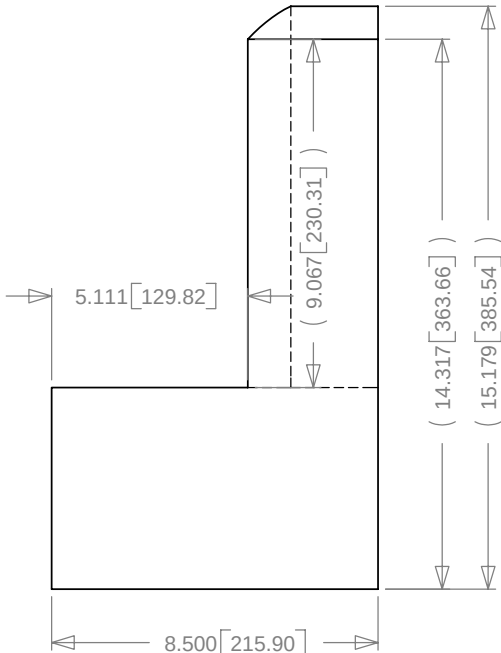
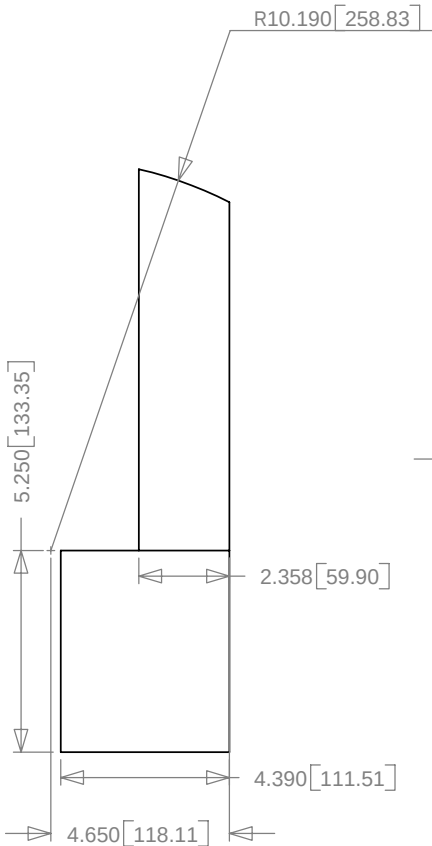


Isometric View, 1:3 Scale

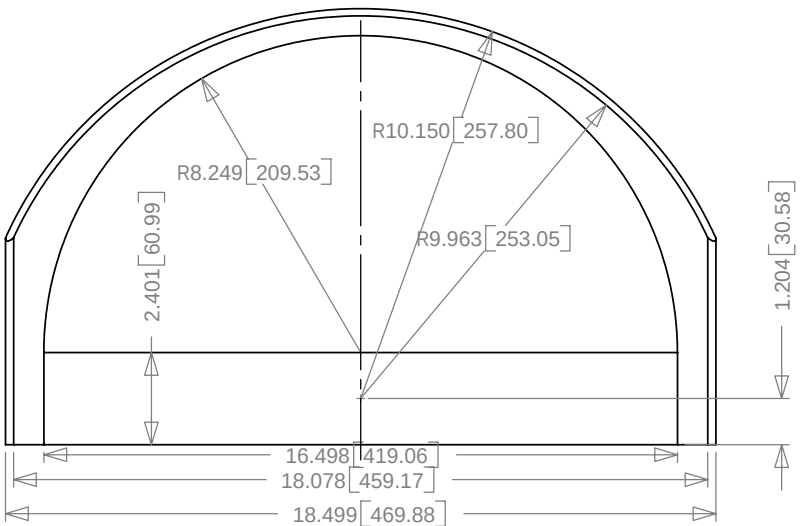
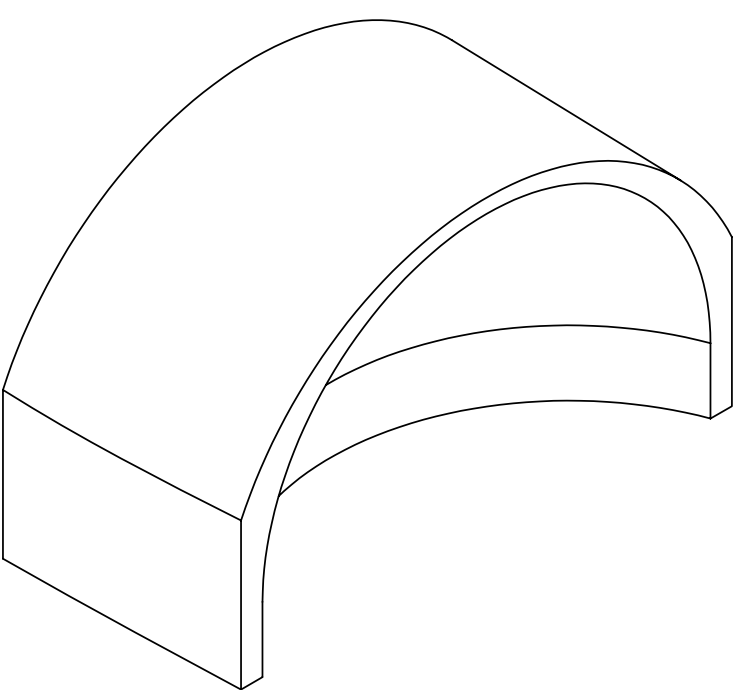
BILL OF MATERIALS									
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE	
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN Hans Thomas	10/24/03		Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 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 FILET 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 Hans Thomas	10/24/03		
Engineer						CHECKED			
NEXT ASSY Description	NEXT ASSY Number					PROJECT NO. 200107			
		PROJECT Seafloor Mapping				Transducer Bay Side Buoyancy Module (P&S)			
Application		DO NOT SCALE DRAWING				WEIGHT		SIZE B DWG. NO. 1002159 REV.	
						SCALE 1:4		CAD FILE: MECH ENG ON TORNADO SHEET 8 OF 10	



Starboard Buoyancy Module



BILL OF MATERIALS									
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:			APPROVALS DATE		Monterey Bay Aquarium Research Institute		
Inspector		1 PLACE DIM ±1/32	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN Hans Thomas	10/24/03		
Shop Foreman		1. DIMENSIONS ARE IN INCHES				ENGINEER Hans Thomas	10/24/03	MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700	
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.				CHECKED		Transducer Bay Port & Starboard Middle Buoyancy Modul	
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.				PROJECT NO.			
		4. MACHINED FILET RADII .0150-.030.				200107			
NEXT ASSY Description	NEXT ASSY Number	5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005				PROJECT		Seafloor Mapping	
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.							
Application		DO NOT SCALE DRAWING				WEIGHT		SIZE B DWG. NO. 1002160 REV.	
						SCALE 1:5		CAD FILE: MECH ENG ON TORNADO SHEET 9 OF 10	



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 Thomas	10/24/03		
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILET 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 Hans Thomas	10/24/03		
Engineer						CHECKED			
NEXT ASSY Description	NEXT ASSY Number					PROJECT NO. 200107			
		PROJECT Seafloor Mapping				 MVC Bay Forward Upper Foam			
Application		DO NOT SCALE DRAWING				WEIGHT		SIZE B DWG. NO. 1002161 REV.	
						SCALE 1:5		CAD FILE: MECH ENG ON TORNADO SHEET 10 OF 10	