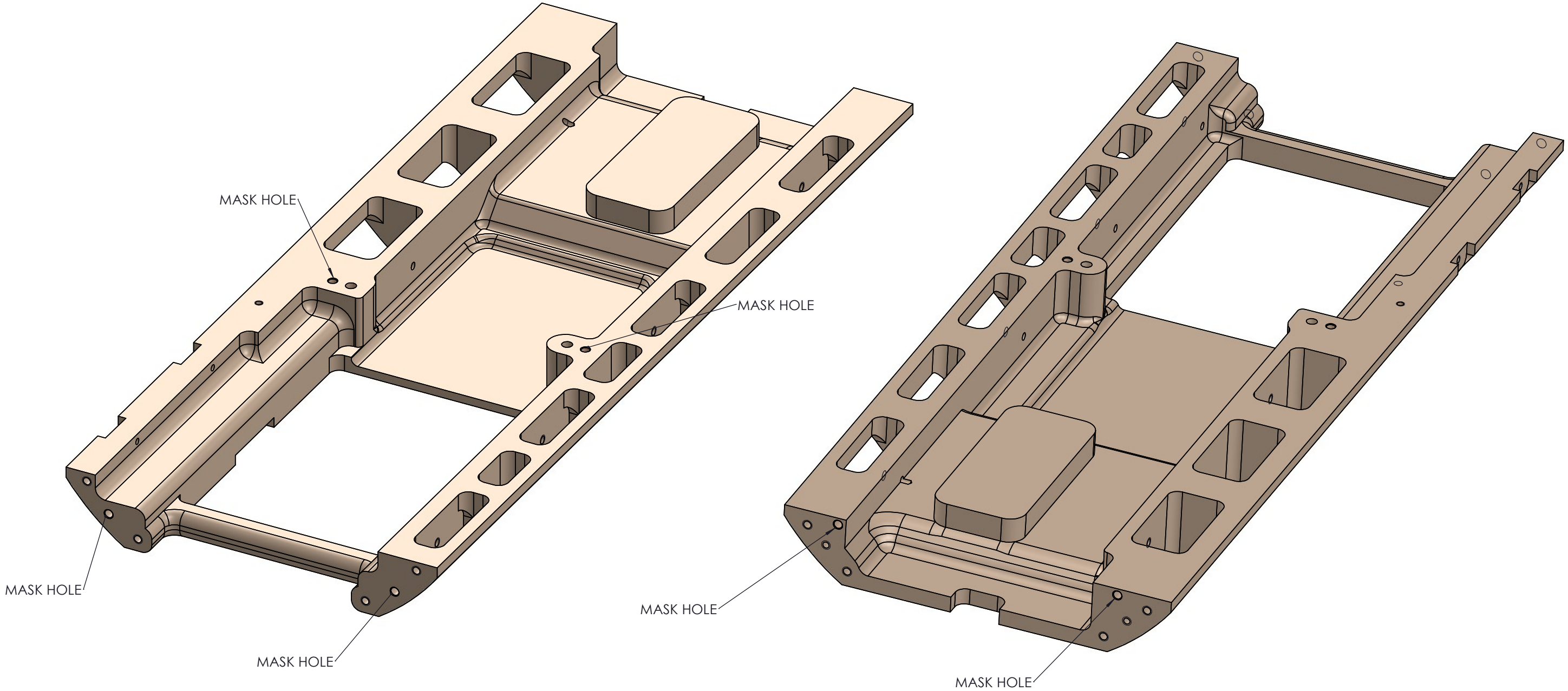


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F
E
D
C
B
A



ANODIZING MASKING CALLOUT

NOTE 5. ANODIZE PART TO 0.0008 AVERAGE COATING THICKNESS TO MIL-A-8625, Type II, Class 2, color: GOLD. NOTE MASKING CALL-OUTS.

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Shop / Q.C.		BILL OF MATERIALS UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE		
Inspector		1 PLACE DIM ±.016	2 PLACE DIM ±.005	3 PLACE DIM ±.005	ANGLE ±°	DRAWN MRC	12/14/2020			
Shop Foreman		1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADI .015-.020. 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	MBARI 7700 Sandholdt Rd. Moss Landing, CA 95039 PH: (831) 775-1700			
Engineer						MARK R. CHAFFEY		(831) 775-1708 chma@mbari.org		
NEXT ASSY Description	NEXT ASSY Number					PROJECT No.	902001		4K CAMERA CHASSIS BASE PLATE	
						PROJECT Name	4K ROV CAMERA			
APPLICATION		DO NOT SCALE DRAWING				WEIGHT	SCALE	CAD FILE:		SHEET 1 OF 10

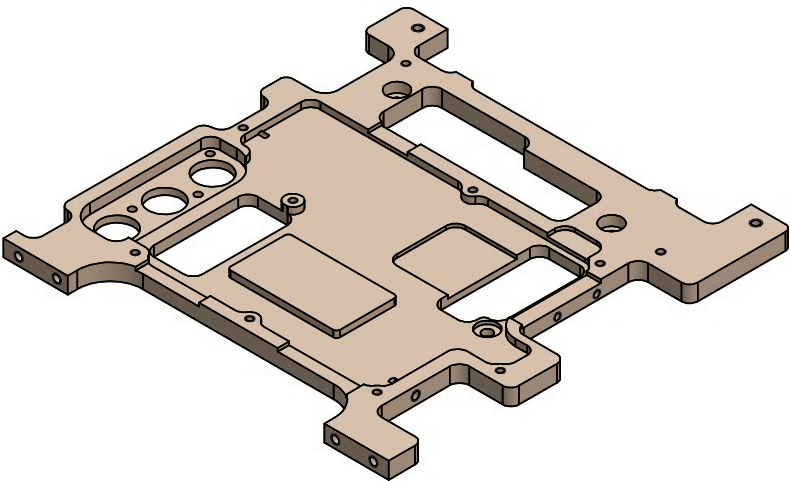
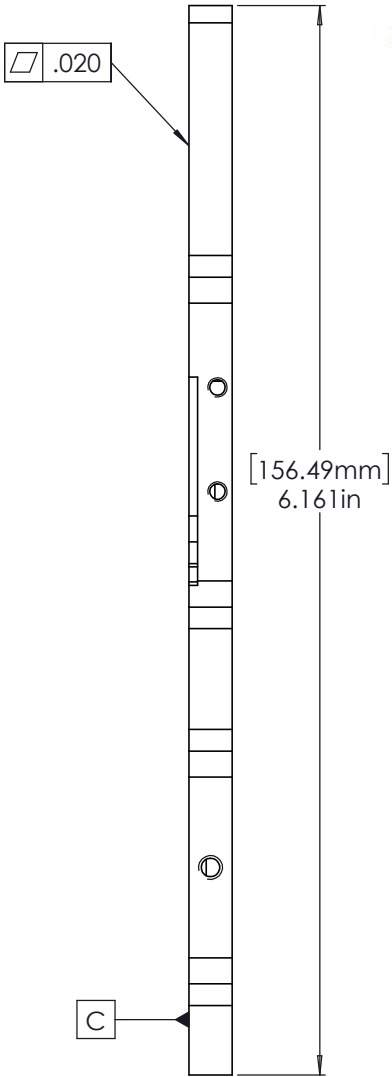
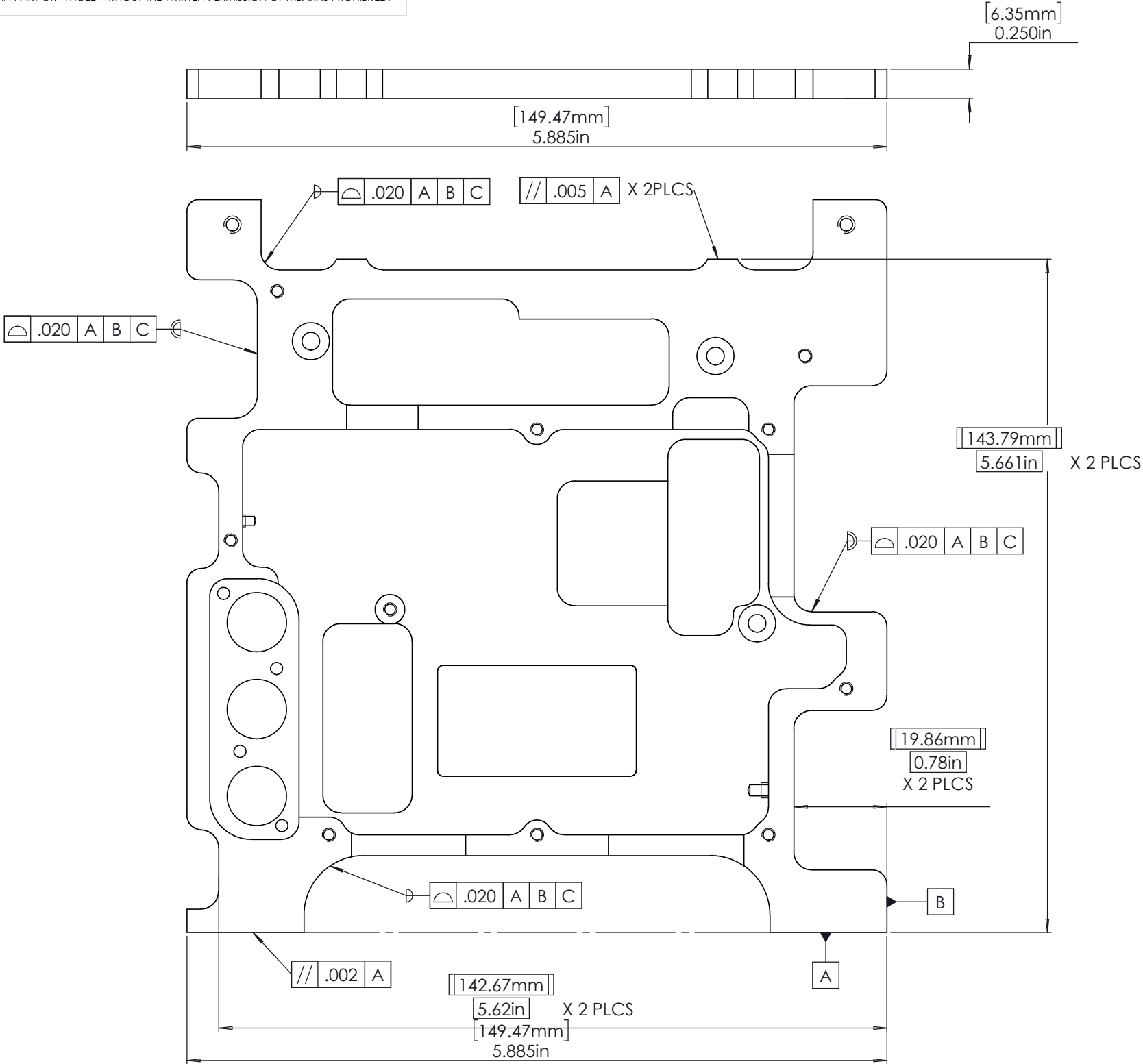


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PH: (831) 775-1700

4K CAMERA CHASSIS BASE PLATE

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
B	Increase cutout for capacitor C72	04/21/2021	
C	XX	XX/XX/202X	



EXTERNAL DIMENSIONS

NOTE 1. SOLID MODEL LOCATION:
\\atlas\ProjectLibrary\902001_4K_ROVCameraDevelopment\EngineeringDesignDocuments\MechanicalDesign\4K_CameraChassis\100221414-09-B_ChassisTopPlate.SLDPRT

NOTE 2. MATERIAL: 6061 T6 ALUMINUM ALLOY.

NOTE 3: ANODIZE PART TO 0.0008 AVERAGE COATING THICKNESS TO MIL-A-8625, Type II, Class 2, color: GOLD.

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Shop / Q.C.		BILL OF MATERIALS UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE	
Inspector		1 PLACE DIM ±.1%	2 PLACE DIM ±.050	3 PLACE DIM ±.005	ANGLE ±°	DRAWN MRC		01/12/2021	
Shop Foreman		1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADI .015-.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						MARK R. CHAFFEY			
NEXT ASSY Description	NEXT ASSY Number					(831) 775-1708 c7ma@mbari.org			
APPLICATION		DO NOT SCALE DRAWING		WEIGHT		PROJECT No.	902001		
						PROJECT Name	4K ROV CAMERA		
						SIZE C	DWG. NO.	100221414-09-B-DWG	REV. B
						SCALE	CAD FILE:	SHEET 2 OF 10	

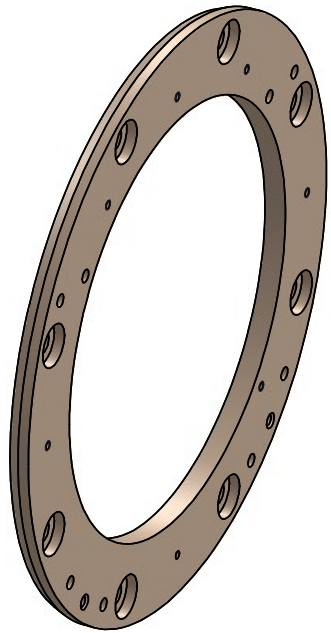
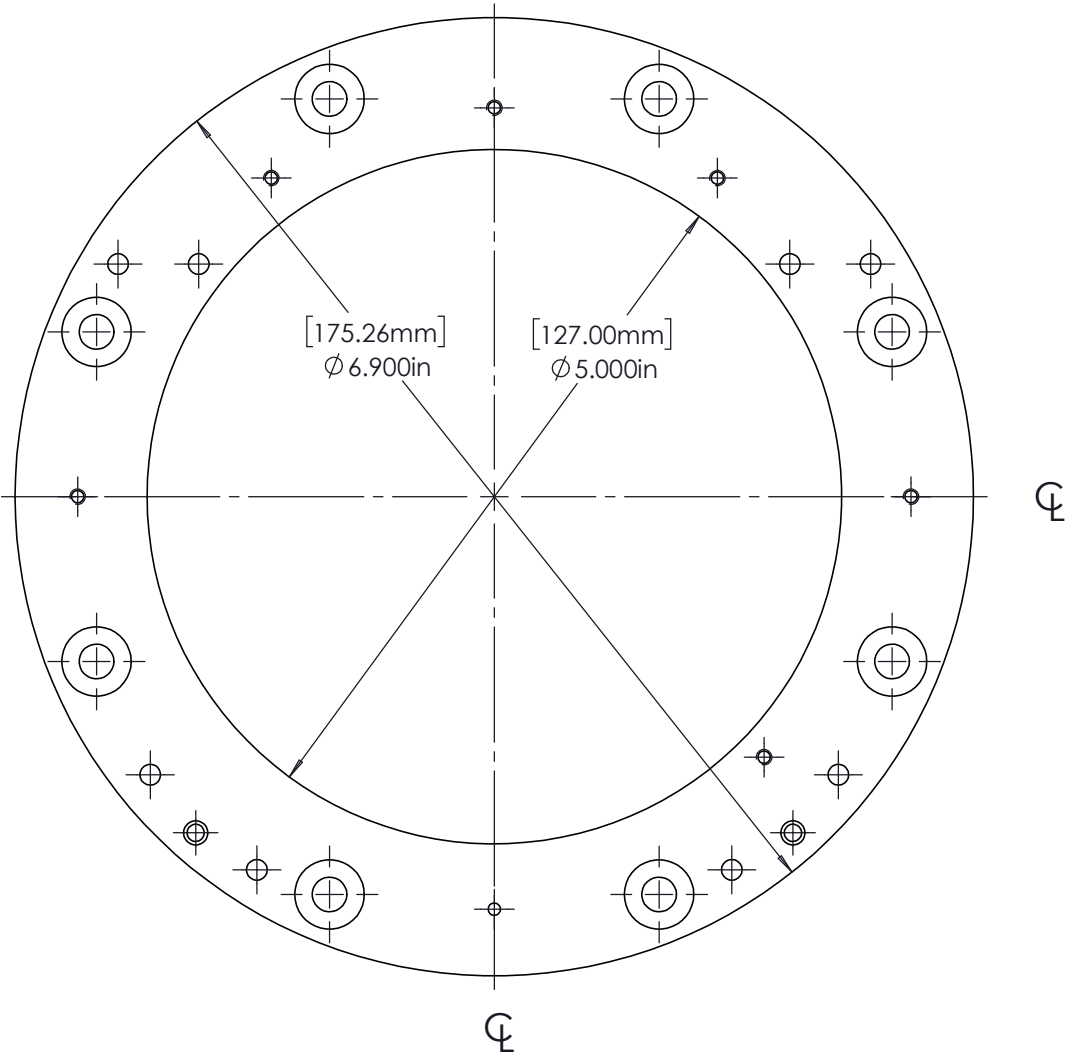
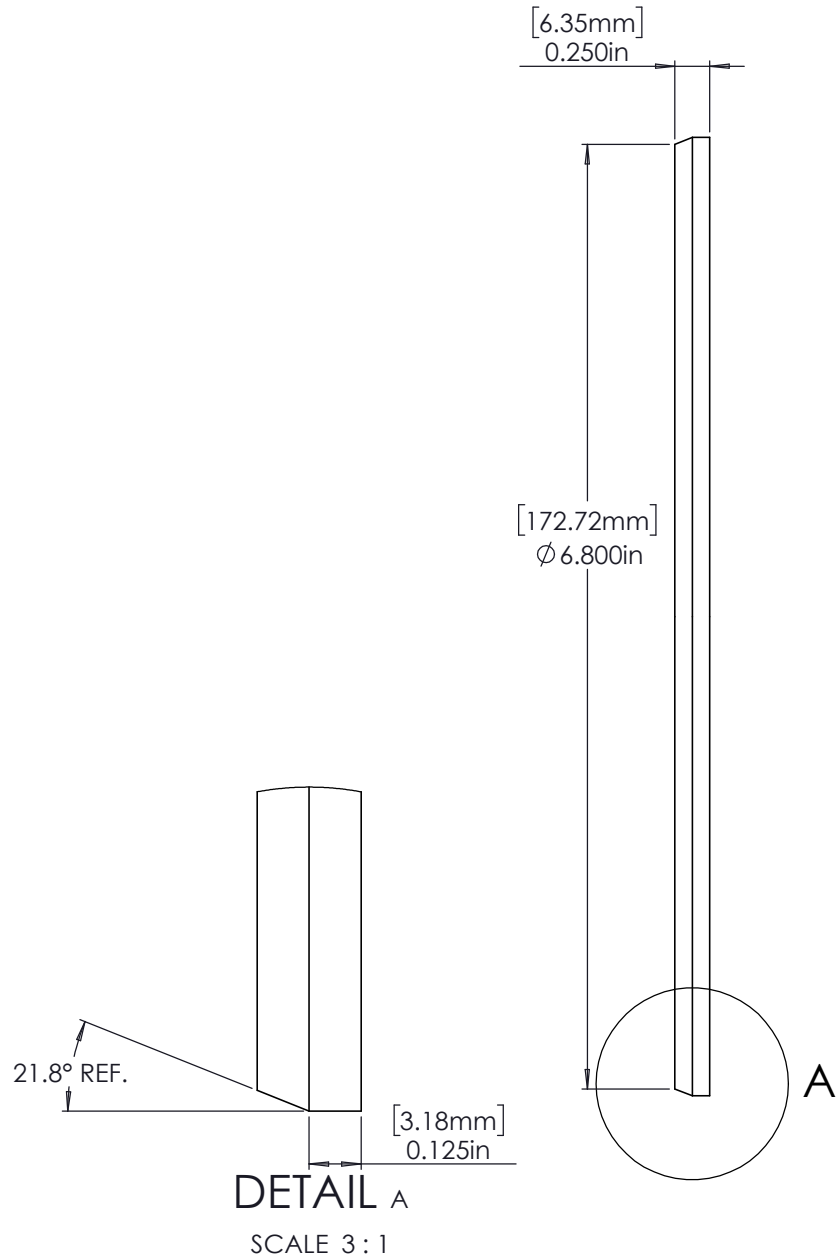


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4K CAMERA CHASSIS TOP PLATE

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
B	XX	XX/XX/202X	
C	XX	XX/XX/202X	



NOTE 1. SOLID MODEL LOCATION:
\\atlas\ProjectLibrary\902001_4K_ROVCameraDevelopment\EngineeringDesignDocuments\MechanicalDesign\4K_CameraChassis\100221414-15-A_FrontChassisPlate.SLDPRT

NOTE 2: MATERIAL - 6061T6 ALUMINUM ALLOY.

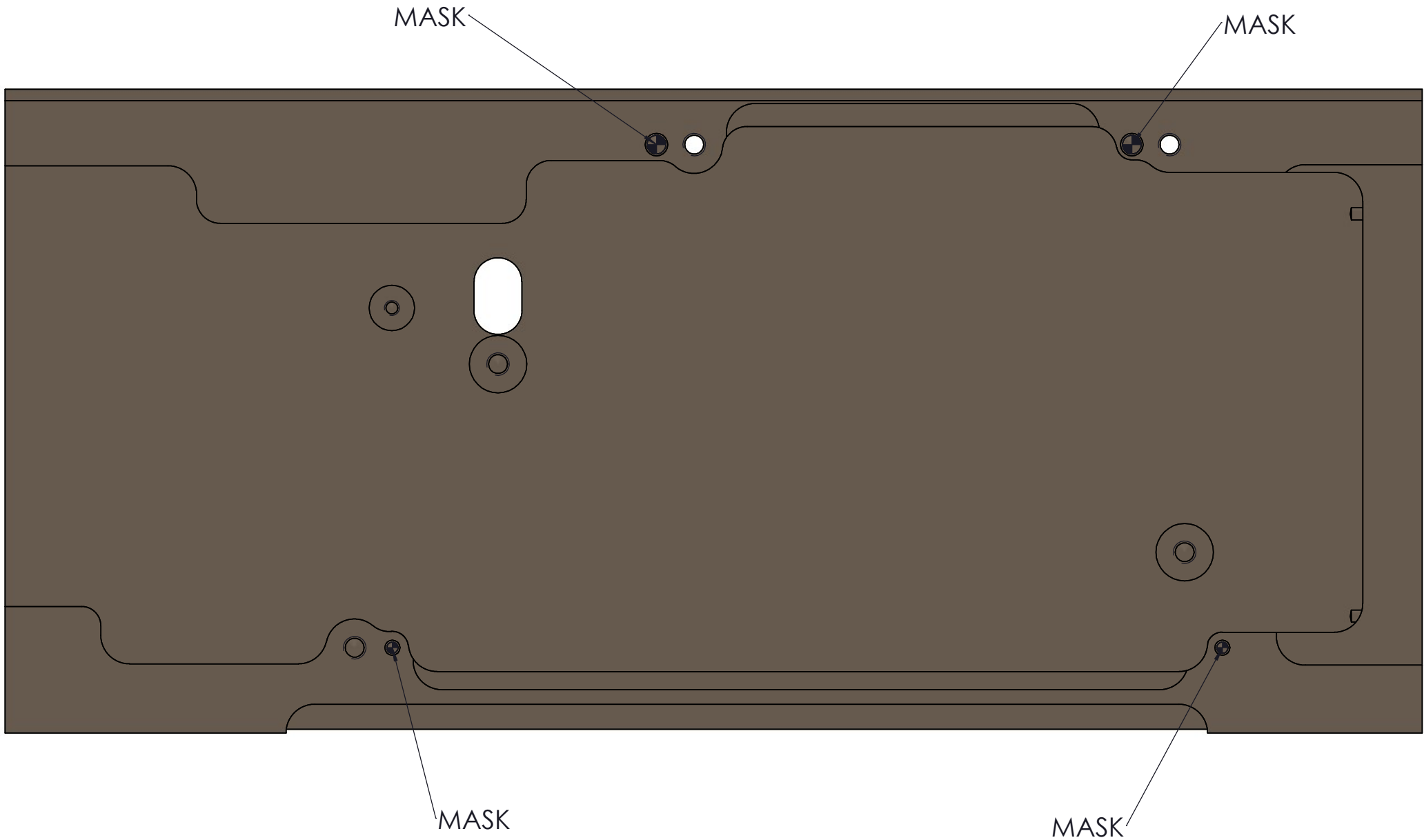
NOTE 3: ANODIZE PART TO 0.0008 AVERAGE COATING THICKNESS TO MIL-A-8625, Type II, Class 2, color: GOLD.

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Shop / Q.C.		BILL OF MATERIALS UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE	
Inspector		1 PLACE DIM ±0.005	2 PLACE DIM ±0.005	3 PLACE DIM ±0.005	ANGLE ±0.005	DRAWN MRC		12/15/2020	
Shop Foreman		1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES - 0.15 MAX. 4. MACHINED FILLET RADIUS 0.15-0.00. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN 0.005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES 0.02 PER INCH MAX. 0.12 INCHES FOR SINGLE SURFACE.				ENGINEER			
Engineer						MARK R. CHAFFEY			
NEXT ASSY Description	NEXT ASSY Number					(831) 775-1708 chma@mbari.org			
APPLICATION		DO NOT SCALE DRAWING				PROJECT No.	902001	4K CAMERA FRONT CHASSIS PLATE	
						PROJECT Name	4K ROV CAMERA	SIZE C	DWG. NO. 100221414-15-A-DWG
						WEIGHT		SCALE	CAD FILE:
								SHEET 3	OF 10



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ANODIZE MASKING

NOTE 3: ANODIZE PART TO 0.0008 AVERAGE COATING THICKNESS TO MIL-A-8625, Type II, Class 2, color: GOLD. NOTE MASKING CALL-OUTS.

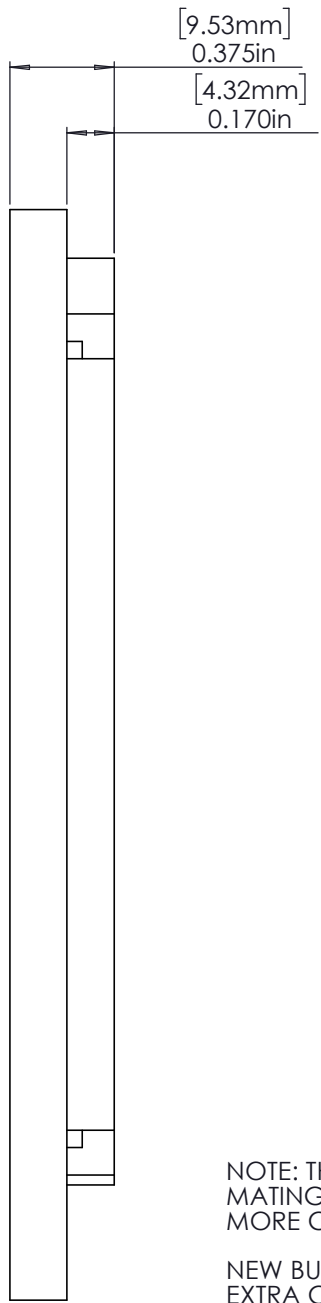
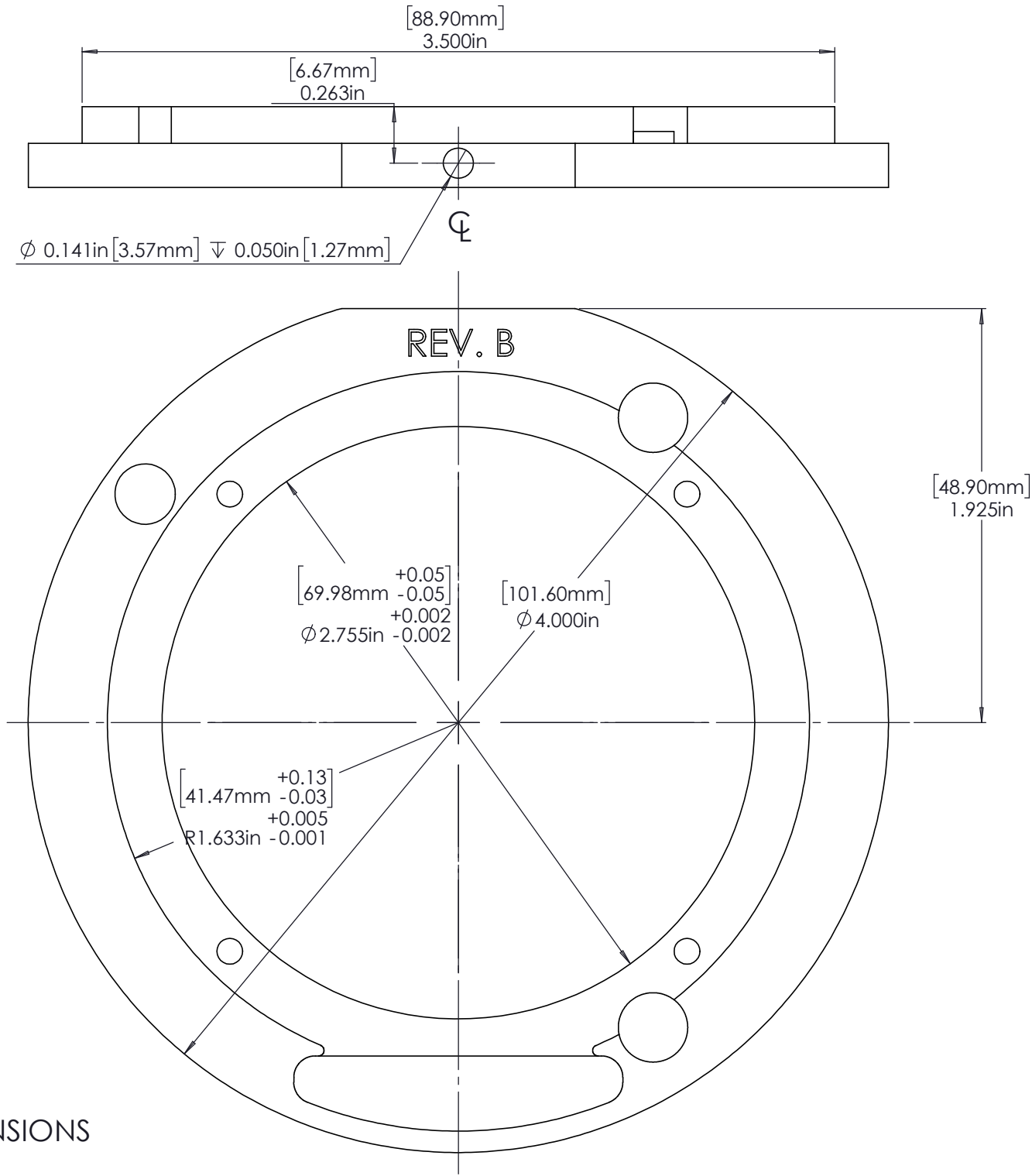
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Shop / Q.C.		BILL OF MATERIALS UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE		 MBARI 7700 Sandholdt Rd. Moss Landing, CA 95039 PH: (831) 775-1700 Monterey Bay Aquarium Research Institute		
Inspector		1 PLACE DIM ±.016	2 PLACE DIM ±.010	3 PLACE DIM ±.005	ANGLE ±°	DRAWN MRC	12/15/2020					
Shop Foreman		1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADIUS .015-.020. 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	MARK R. CHAFFEY (831) 775-1708 c3rma@mbari.org					
Engineer												
NEXT ASSY Description	NEXT ASSY Number					PROJECT No.	902001					
		4K CAMERA TOP PLATE		PROJECT Name		SIZE C	DWG. NO.	100221414-18-B-DWG		REV. B		
APPLICATION		DO NOT SCALE DRAWING		WEIGHT		SCALE	CAD FILE:		SHEET 4 OF 10			



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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
B	Modification to fit out-of-tolerance mate.	04/27/2021	
C	XX	XX/XX/202X	



EXTERNAL DIMENSIONS

NOTE 1. SOLID MODEL LOCATION:
\\atlas\ProjectLibrary\902001_4K_ROVCameraDevelopment\EngineeringDesignDocuments\MechanicalDesign\4K_CameraChassis\100221414-22-B_OpticalBlockFlange.SLDPRT

NOTE 2. MATERIAL 7075 T6 ALUMINUM ALLOY.

NOTE 3: ANODIZE PART TO 0.0008 AVERAGE COATING THICKNESS TO MIL-A-8625, Type II, Class 2, color: GOLD.

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NOTE: THIS 'B' REVISION IS TO FIT SLIGHTLY OUT OF TOLERANCE MATING PART (OPTICAL BLOCK MOUNT) AND ALSO TO ALLOW MORE COMPLIANCE FOR ADJUSTING THE CAMERA LENS TILT.

NEW BUILDS MUST USE THE 'C' REVISION PART THAT ALSO ALLOWS EXTRA COMPLIANCE BUT DOES NOT NEED EXTRA MACHINED FLAT FOR ADJUSTING SCREW.

Shop / Q.C.		BILL OF MATERIALS UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE	
Inspector		1 PLACE DIM ±.010	2 PLACE DIM ±.005	3 PLACE DIM ±.005	ANGLE ±°	DRAWN MRC		12/17/2020	
Shop Foreman		1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILET RADI .015-.020. 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						MARK R. CHAFFEY			
						(831) 775-1708			
NEXT ASSY Description		NEXT ASSY Number		PROJECT No.		PROJECT Name		SIZE	
				902001		4K ROV CAMERA		C	
APPLICATION		DO NOT SCALE DRAWING		WEIGHT		SCALE		DWG. NO.	
						CAD FILE:		100221414-22-B-DWG	
								REV.	
								B	
								SHEET 5 OF 10	



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OPTICAL BLOCK FLANGE

REV. B

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MASK THIS HOLE

MASK 1/4-80 THREADED HOLES (3 PLACES)

ANODIZE MASKING CALLOUT

NOTE 3: ANODIZE PART TO 0.0008 AVERAGE COATING THICKNESS TO MIL-A-8625, Type II, Class 2, color: GOLD. NOTE MASKING CALL-OUTS.

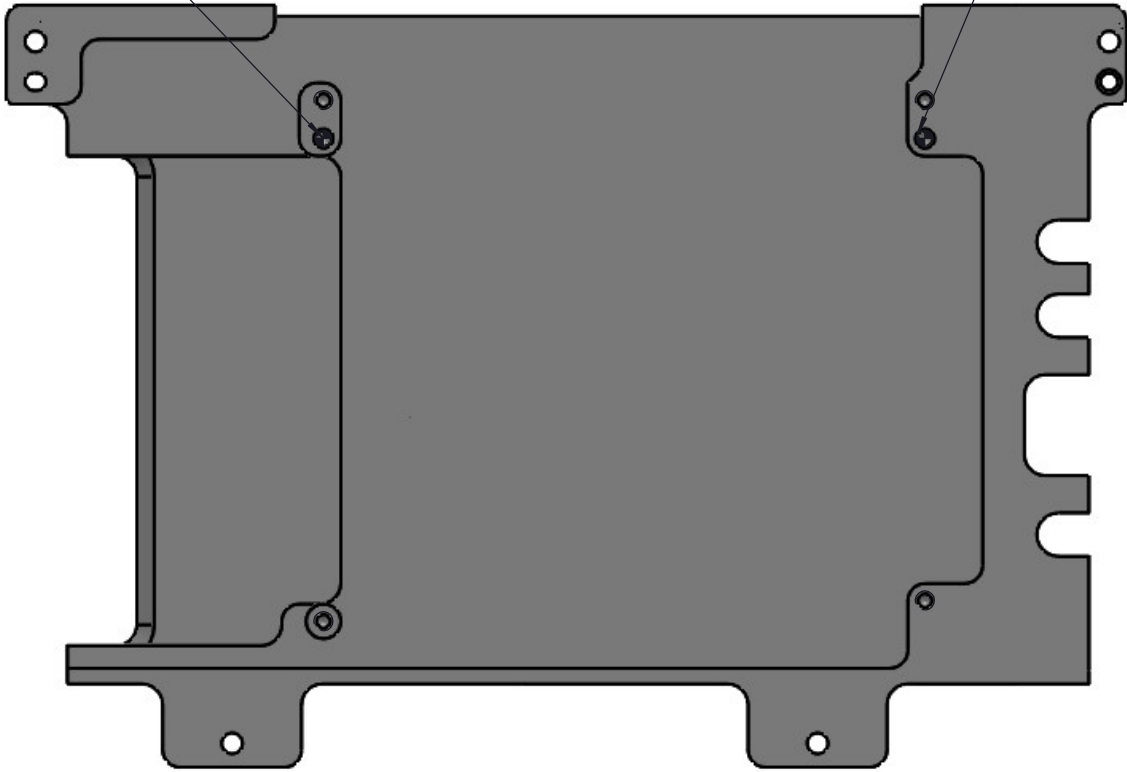
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Shop / Q.C.		BILL OF MATERIALS UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE		 MBARI Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt Rd. Moss Landing, CA 95039 PH: (831) 775-1700		
Inspector		1 PLACE DIM ±.016	2 PLACE DIM ±.005	3 PLACE DIM ±.005	ANGLE ±°	DRAWN MRC	12/18/2020					
Shop Foreman		1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADI .015-.020. 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	MARK R. CHAFFEY					
Engineer						(831) 775-1708 mrc@mbari.org						
NEXT ASSY Description	NEXT ASSY Number					PROJECT No.	902001		4K CAMERA OPTICAL BLOCK MOUNT			
APPLICATION	DO NOT SCALE DRAWING					PROJECT Name	4K ROV CAMERA		SIZE C	DWG. NO.	100221414-25-A-DWG	REV. A
						WEIGHT			SCALE	CAD FILE:		SHEET 6 OF 10

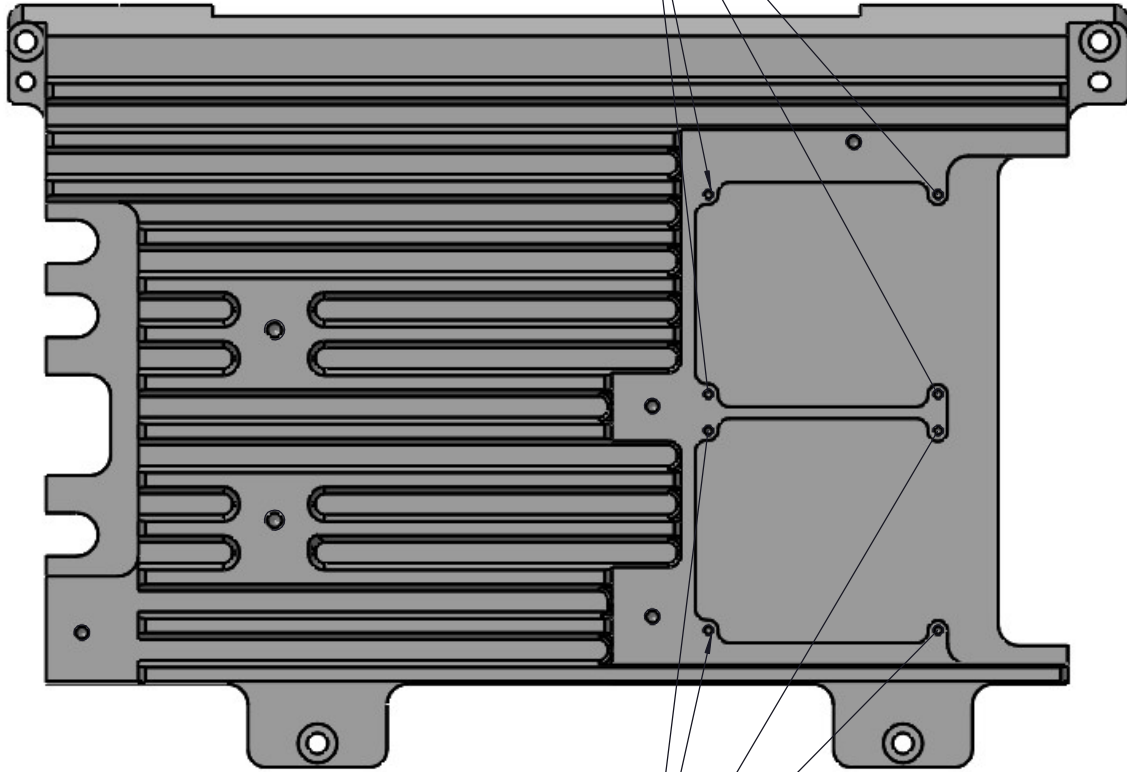
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MASK THIS HOLE

MASK THIS HOLE



MASK THESE HOLES (4 PLACES)



MASK THESE HOLES (4 PLACES)

ANODIZING HOLE MASKING CALLOUT

NOTE 3: ANODIZE PART TO 0.0008 AVERAGE COATING THICKNESS TO MIL-A-8625, Type II, Class 2, color: BLACK. NOTE MASKING CALL-OUTS.

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Shop / Q.C.		BILL OF MATERIALS UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE		 MBARI 7700 Sandholdt Rd. Moss Landing, CA 95039 PH: (831) 775-1700 Monterey Bay Aquarium Research Institute	
Inspector		1 PLACE DIM ±.174	2 PLACE DIM ±.050	3 PLACE DIM ±.005	ANGLE ±°	DRAWN MRC	12/29/2020				
Shop Foreman		1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADI .015-.020. 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	MARK R. CHAFFEY (831) 775-1708 crra@mbari.org				
Engineer						PROJECT No.	902001				
NEXT ASSY Description	NEXT ASSY Number					PROJECT Name		4K ROV CAMERA			
APPLICATION		DO NOT SCALE DRAWING				WEIGHT	SCALE	CAD FILE:		SHEET 7 OF 10	
						SIZE C	DWG. NO.	100221414-37-A-DWG		REV. A	

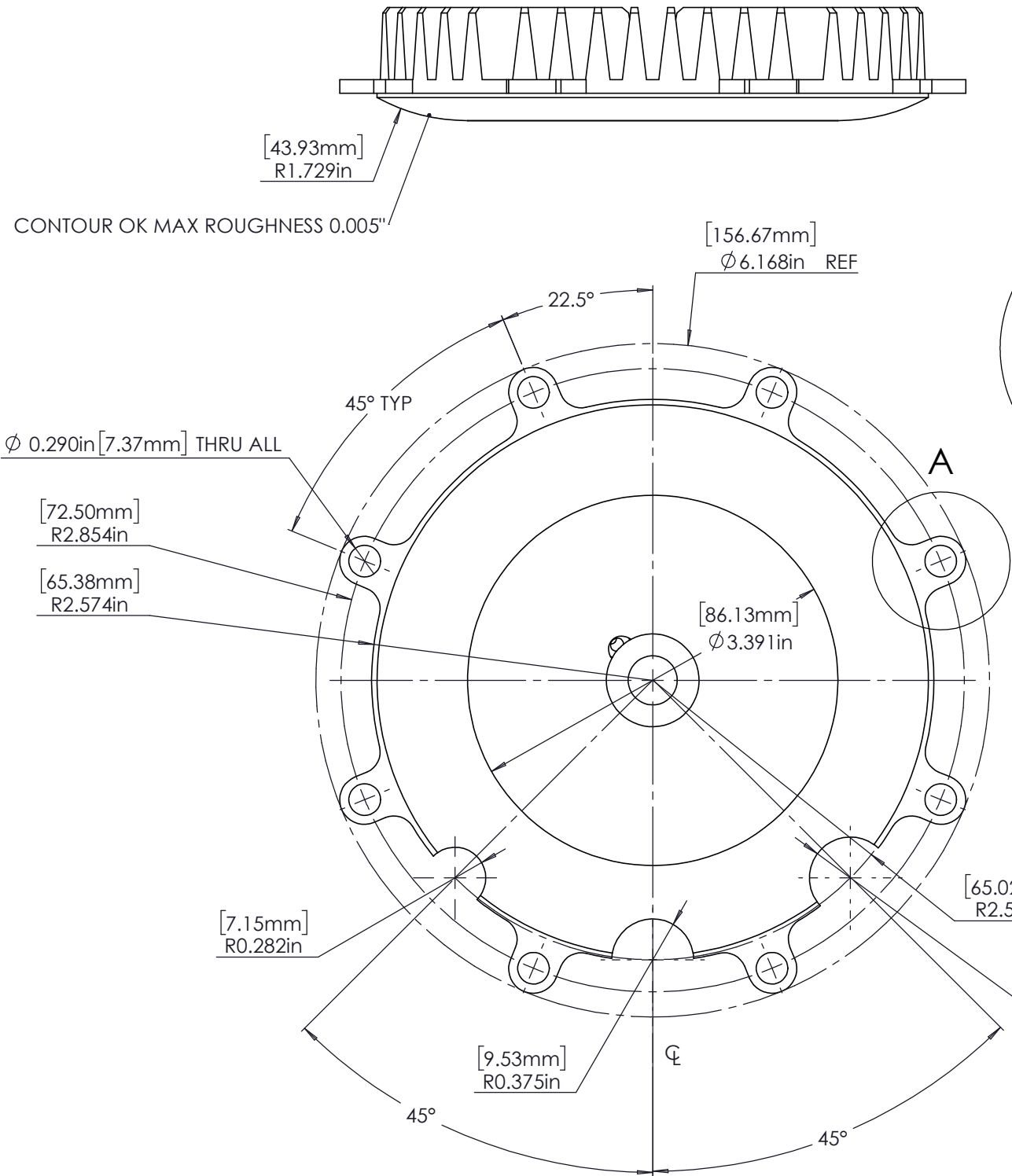


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Monterey Bay Aquarium
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	11/12/2020	
B	MODIFIED FOR SPRING TRAVEL	12/01/2020	
C	MODIFIED FOR FASTNER CLEARANCE	12/04/2020	



DETAIL A
SCALE 2 : 1

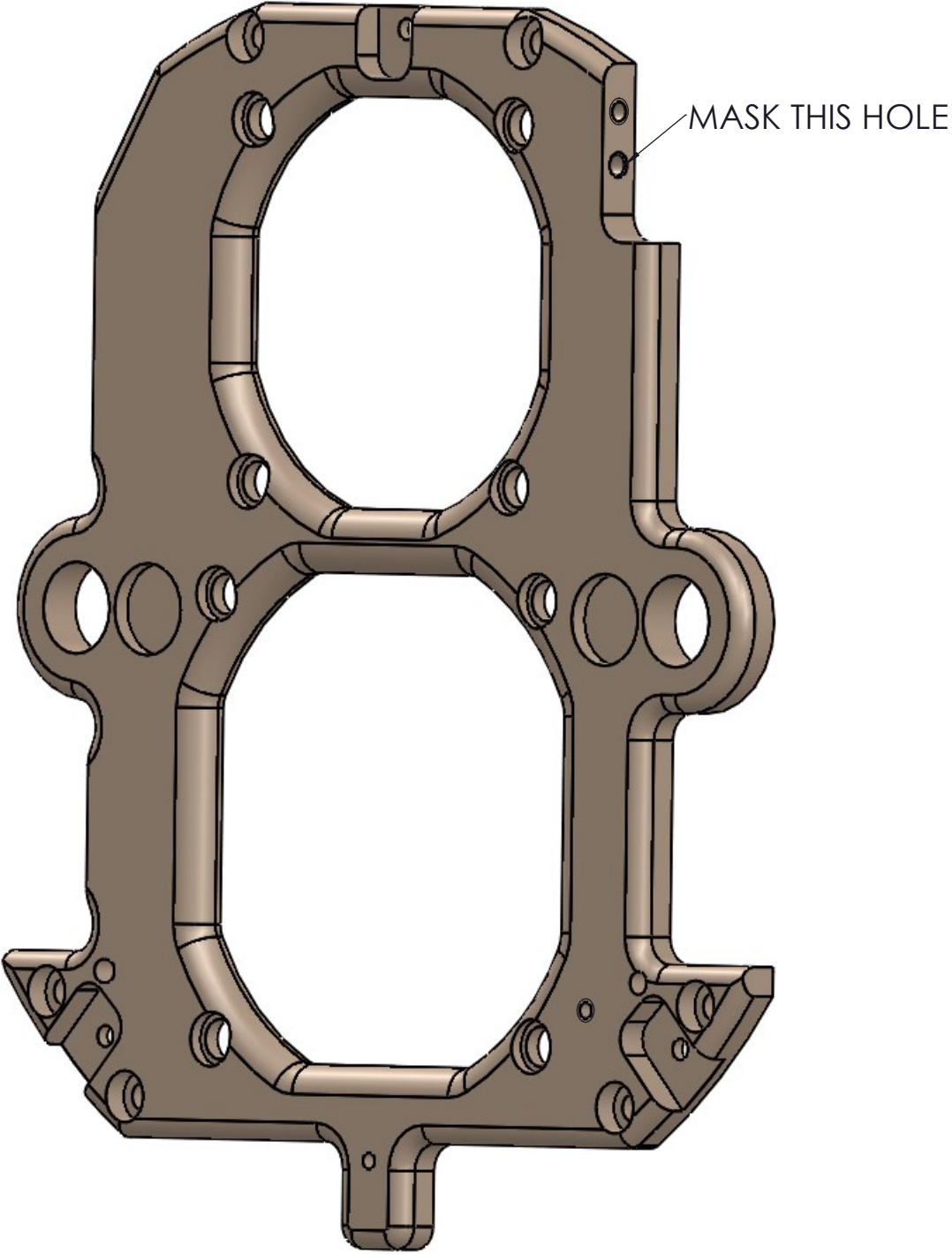
DETAIL B
SCALE 2 : 1

NOTE 1. SOLID MODEL LOCATION:
\\atlas\ProjectLibrary\902001_4K_ROVCameraDevelopment\EngineeringDesignDocuments\MechanicalDesign\4K_CameraChassis\100221414-39-C_BulkheadMount.SLDPR
NOTE 2. MATERIAL - 6061-T6 ALUMINUM ALLOY.
NOTE 3: ANODIZE PART TO 0.0008 AVERAGE COATING THICKNESS TO MIL-A-8625, Type II, Class 2, color: GOLD.

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Shop / Q.C.		BILL OF MATERIALS UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS		DATE	
Inspector		1 PLACE DIM ±.010	2 PLACE DIM ±.005	3 PLACE DIM ±.005	ANGLE ±.1°	DRAWN MRC	11/12/2020
Shop Foreman		1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BARKS AND SHARP EDGES .015 MAX. 4. MACHINED FILED RADII .015-.020. 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 MARK R. CHAFFEY (831) 775-1708 mrc@mbari.org	MBARI 7700 Sandholdt Rd. Moss Landing, CA 95039 PH: (831) 775-1700
NEXT ASSY Description	NEXT ASSY Number	PROJECT No. 902001		PROJECT Name 4K ROV CAMERA		4K Camera Bulkhead Mount	
APPLICATION		DO NOT SCALE DRAWING		WEIGHT		DWG. NO. 100221414-39-C-DWG	
						SCALE CAD FILE:	
						REV. C	
						SHEET 1 OF 3	

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ANODIZE MASKING CALLOUT

NOTE 3: ANODIZE PART TO 0.0008 AVERAGE COATING THICKNESS TO MIL-A-8625, Type II, Class 2, color: GOLD. NOTE MASKING CALL-OUTS.

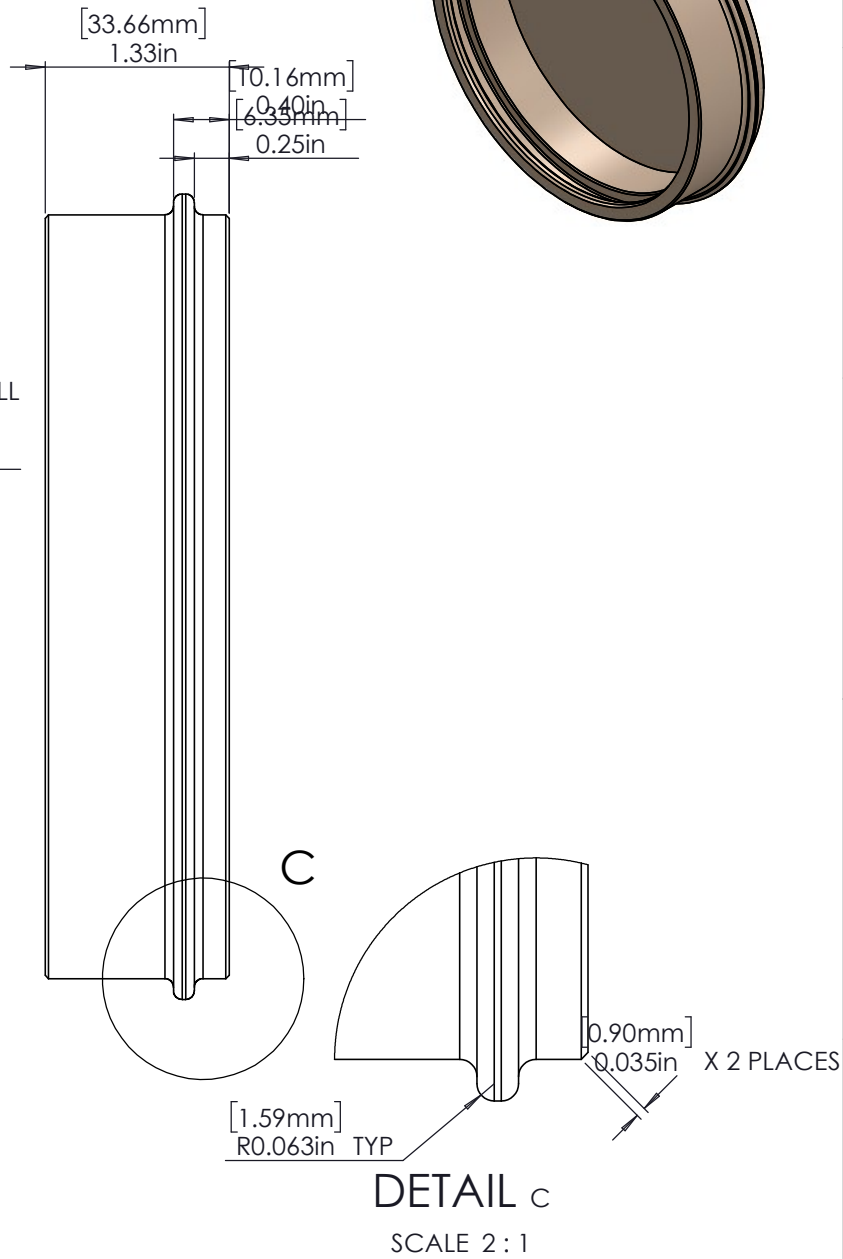
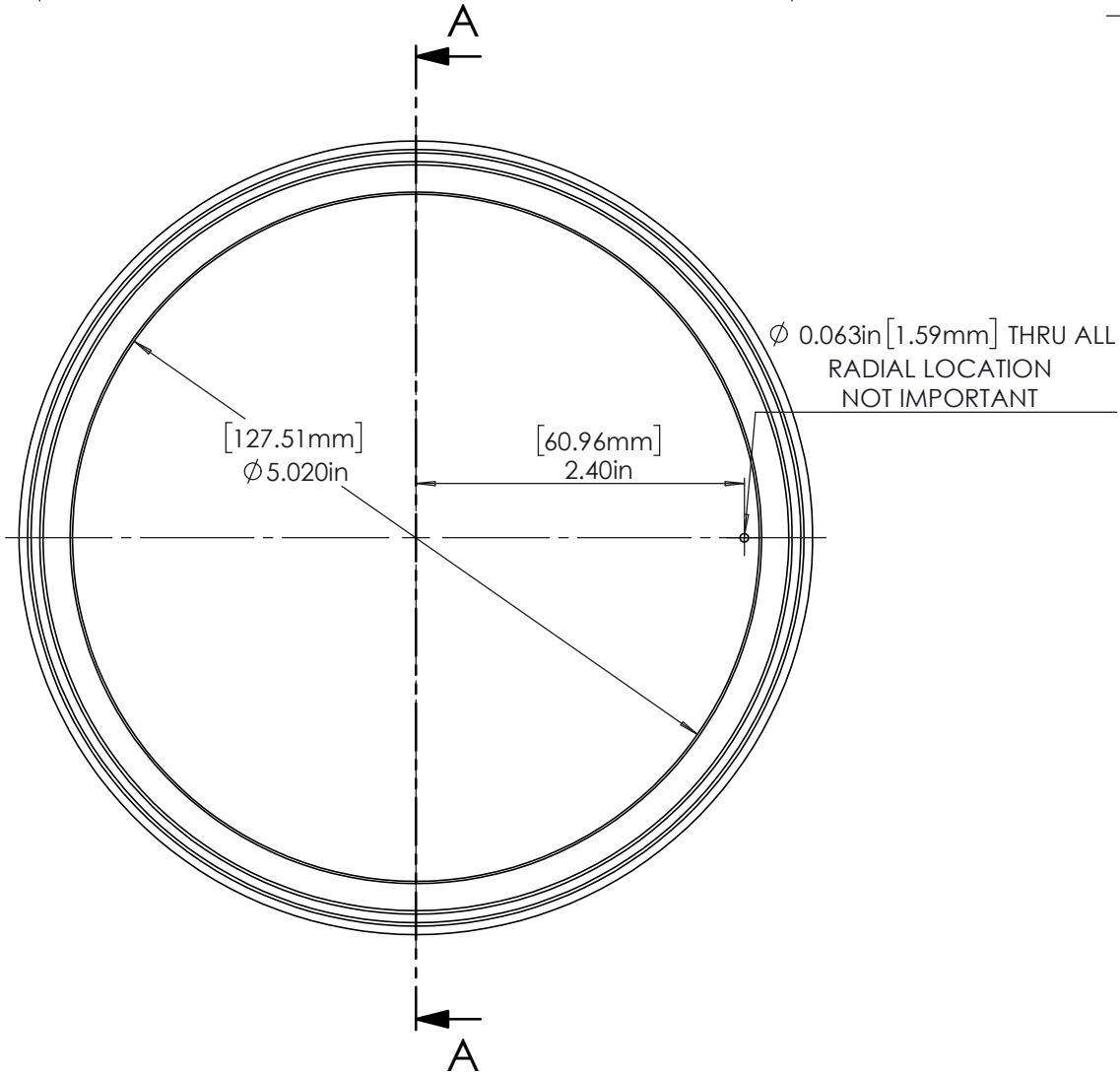
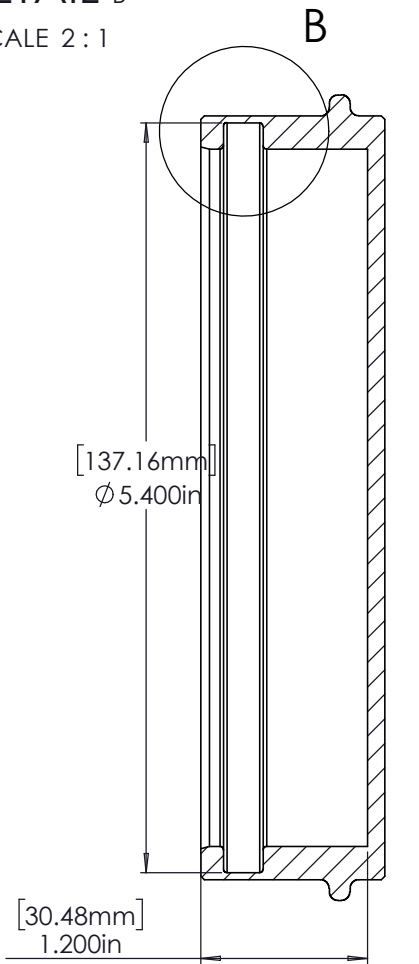
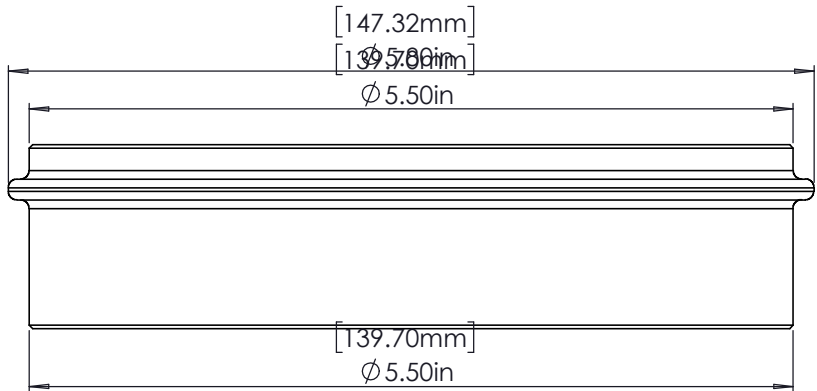
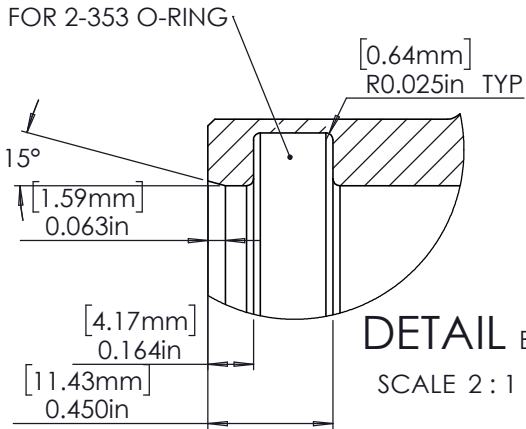
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Shop / Q.C.		BILL OF MATERIALS UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE		 MBARI Monterey Bay Aquarium Research Institute			
Inspector		1 PLACE DIM ±.016	2 PLACE DIM ±.005	3 PLACE DIM ±.005	ANGLE ±°	DRAWN MRC	12/21/2020		MBARI 7700 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 FILLET RADI .015-.020. 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	MARK R. CHAFFEY						
Engineer						(831) 775-1708 chm@mbari.org							
NEXT ASSY Description	NEXT ASSY Number					PROJECT No.		902001				4K CAMERA REAR CHASSIS PLATE	
						PROJECT Name		4K ROV CAMERA		REV. A			
						SIZE C		DWG. NO.		100221414-45-A-DWG			
APPLICATION		DO NOT SCALE DRAWING				WEIGHT		SCALE		CAD FILE:		SHEET 9 OF 10	



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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
B	XX	XX/XX/202X	
C	XX	XX/XX/202X	



NOTE 1. SOLID MODEL LOCATION:

\\atlas\ProjectLibrary\902001_4K_ROVCameraDevelopment\EngineeringDesignDocuments\MechanicalDesign\4K_CameraChassis\100221414-91-A_AdapterLensCap.SLDPRT

NOTE 2. MATERIAL: 6061-T6 ALUMINUM.

NOTE 3: ANODIZE PART TO 0.0008 AVERAGE COATING THICKNESS TO MIL-A-8625, Type II, Class 2, color: GOLD.

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Shop / Q.C.		BILL OF MATERIALS UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE	
Inspector		1 PLACE DIM ±0.16	2 PLACE DIM ±0.05	3 PLACE DIM ±0.025	ANGLE ±1°	DRAWN MRC		04/20/2021	
Shop Foreman		1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES. (0.15 MAX.) 4. MACHINED FILLET RADI (0.15-0.00). 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005. 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH MAX. (0.12 INCHES FOR SINGLE SURFACE).				ENGINEER			
Engineer						MARK R. CHAFFEY			
						(831) 775-1708			
						chma@mbari.org			
NEXT ASSY Description	NEXT ASSY Number	PROJECT No. 902001				PROJECT Name 4K ROV CAMERA		SIZE C	
APPLICATION		DO NOT SCALE DRAWING				WEIGHT		DWG. NO. 100221414-91-A-DWG	
						SCALE		CAD FILE:	
								REV. A	
								SHEET 10 OF 10	



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4K CAMERA ADAPTER CELL LENS CAP

DWG. NO. 100221414-91-A-DWG

REV. A