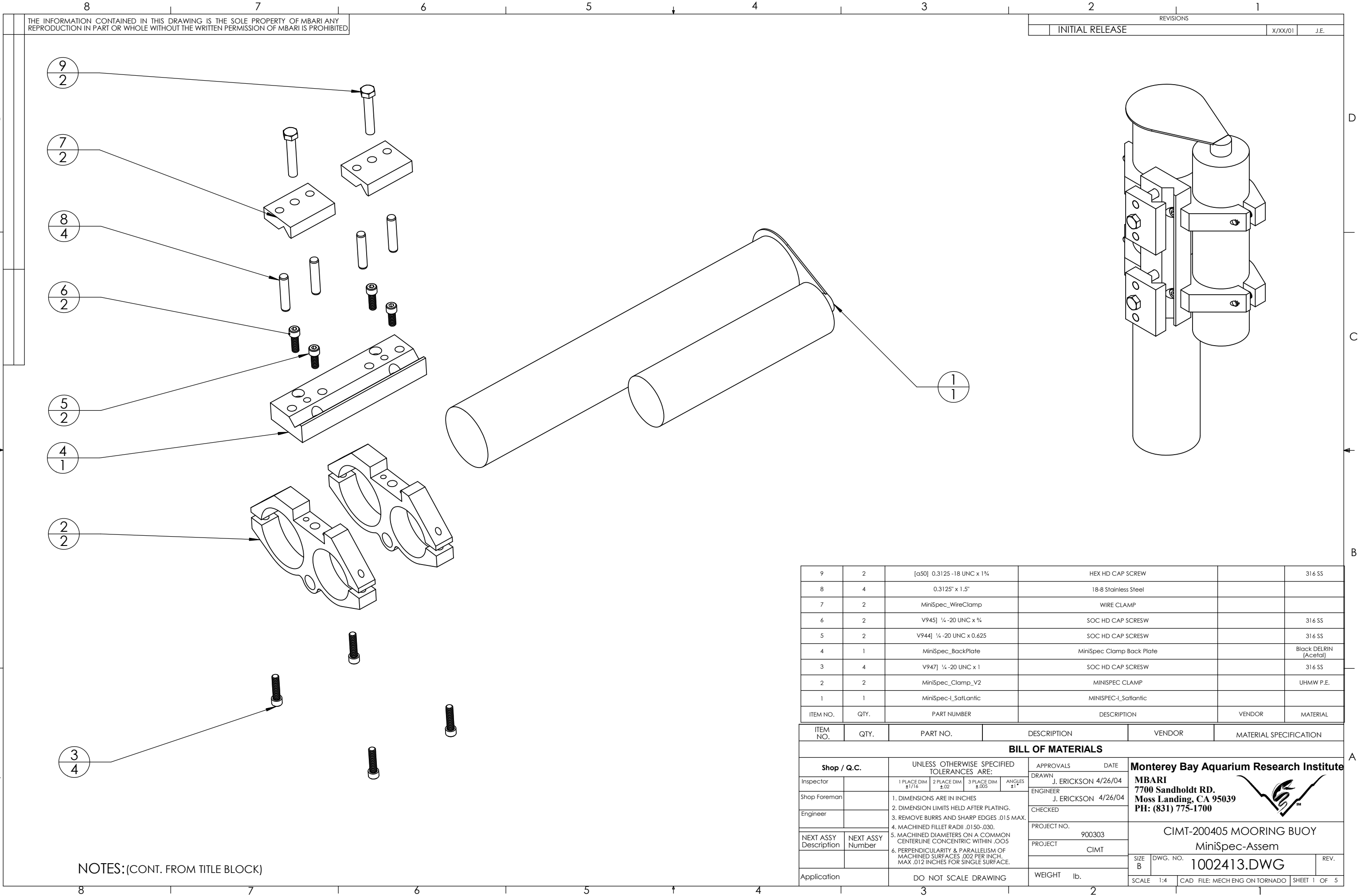




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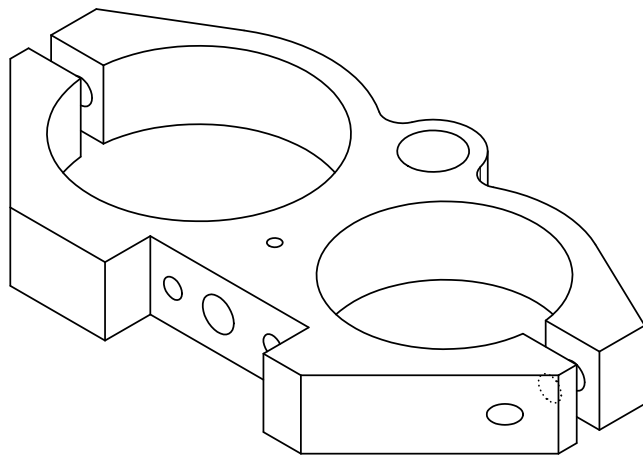
9	2	[a50] 0.3125 -18 UNC x 1 1/4	HEX HD CAP SCREW		316 SS
8	4	0.3125" x 1.5"	18-8 Stainless Steel		
7	2	MiniSpec_WireClamp	WIRE CLAMP		
6	2	V945] 1/4 -20 UNC x 3/4	SOC HD CAP SCRESW		316 SS
5	2	V944] 1/4 -20 UNC x 0.625	SOC HD CAP SCRESW		316 SS
4	1	MiniSpec_BackPlate	MiniSpec Clamp Back Plate		Black DELRIN (Acetal)
3	4	V947] 1/4 -20 UNC x 1	SOC HD CAP SCRESW		316 SS
2	2	MiniSpec_Clamp_V2	MINISPEC CLAMP		UHMW P.E.
1	1	MiniSpec-L_SatLantic	MINISPEC-L_SatLantic		
ITEM NO.	QTY.	PART NUMBER	DESCRIPTION	VENDOR	MATERIAL

ITEM NO.	QTY.	PART NO.	DESCRIPTION	VENDOR	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°
Shop Foreman		1. DIMENSIONS ARE IN INCHES		DRAWN J. ERICKSON 4/26/04	
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.		ENGINEER J. ERICKSON 4/26/04	
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.		CHECKED	
		4. MACHINED FILLET RADII .0150-.030.		PROJECT NO. 900303	
NEXT ASSY Description	NEXT ASSY Number	5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005		PROJECT CIMT	
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH, MAX .012 INCHES FOR SINGLE SURFACE.		SIZE B DWG. NO. 1002413.DWG	
Application		DO NOT SCALE DRAWING		WEIGHT lb.	
				SCALE 1:4 CAD FILE: MECH ENG ON TORNADO SHEET 1 OF 5	
				Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700	
					
				CIMT-200405 MOORING BUOY MiniSpec-Assem	

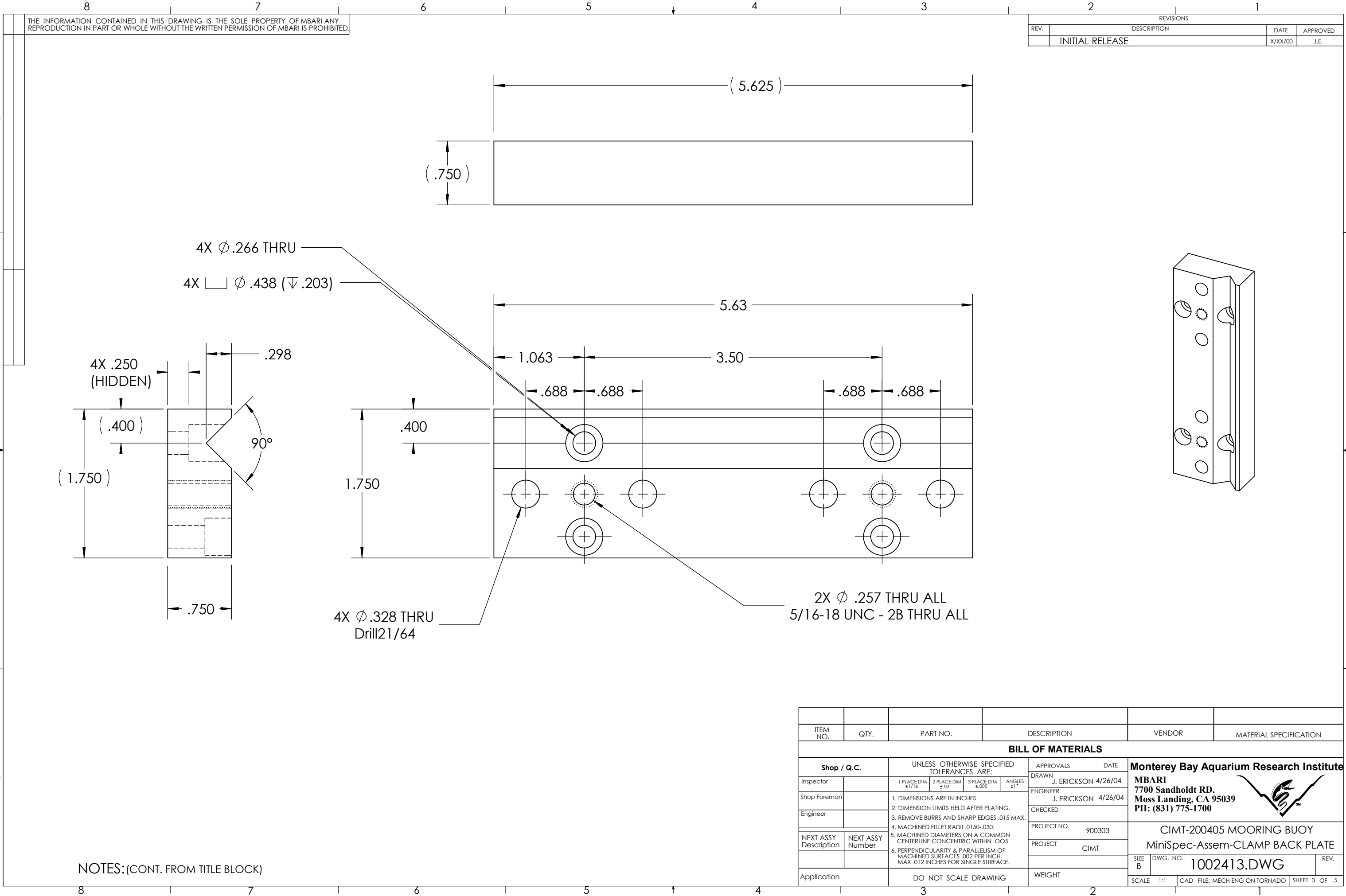
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MBARI
7700 Sandholdt RD.
Moss Landing, CA 95039
PH: (831) 775-1700



NOTES:(CONT. FROM TITLE BLOCK)



1	1	MINISPEC CLAMP				UHMW P.E.			
ITEM NO.	QTY.	Part Number	DESCRIPTION				VENDOR	MATERIAL	
ITEM NO.	QTY.	PART NO.	DESCRIPTION				VENDOR	MATERIAL SPECIFICATION	
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 ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN J. ERICKSON 4/26/04			
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSIONS 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 J. ERICKSON 4/26/04			
Engineer						CHECKED			
NEXT ASSY Description	NEXT ASSY Number					PROJECT NO. 900303			
						PROJECT CIMT			
						SIZE B DWG. NO. 1002413.DWG		REV.	
Application		DO NOT SCALE DRAWING				WEIGHT		SCALE 1:1 CAD FILE: MECH ENG ON TORNADO SHEET 2 OF 5	



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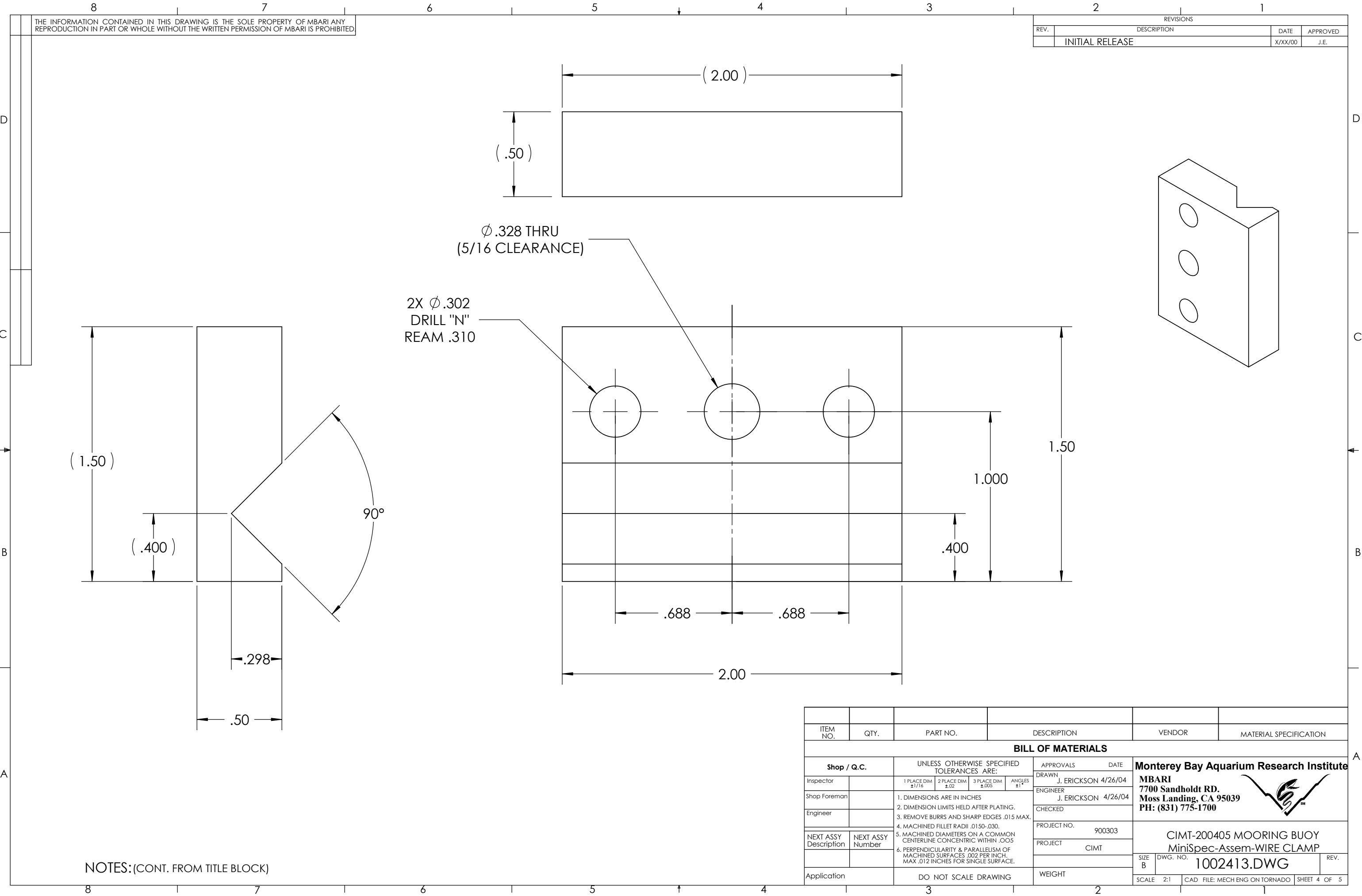
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE	X/XX/00	J.E.

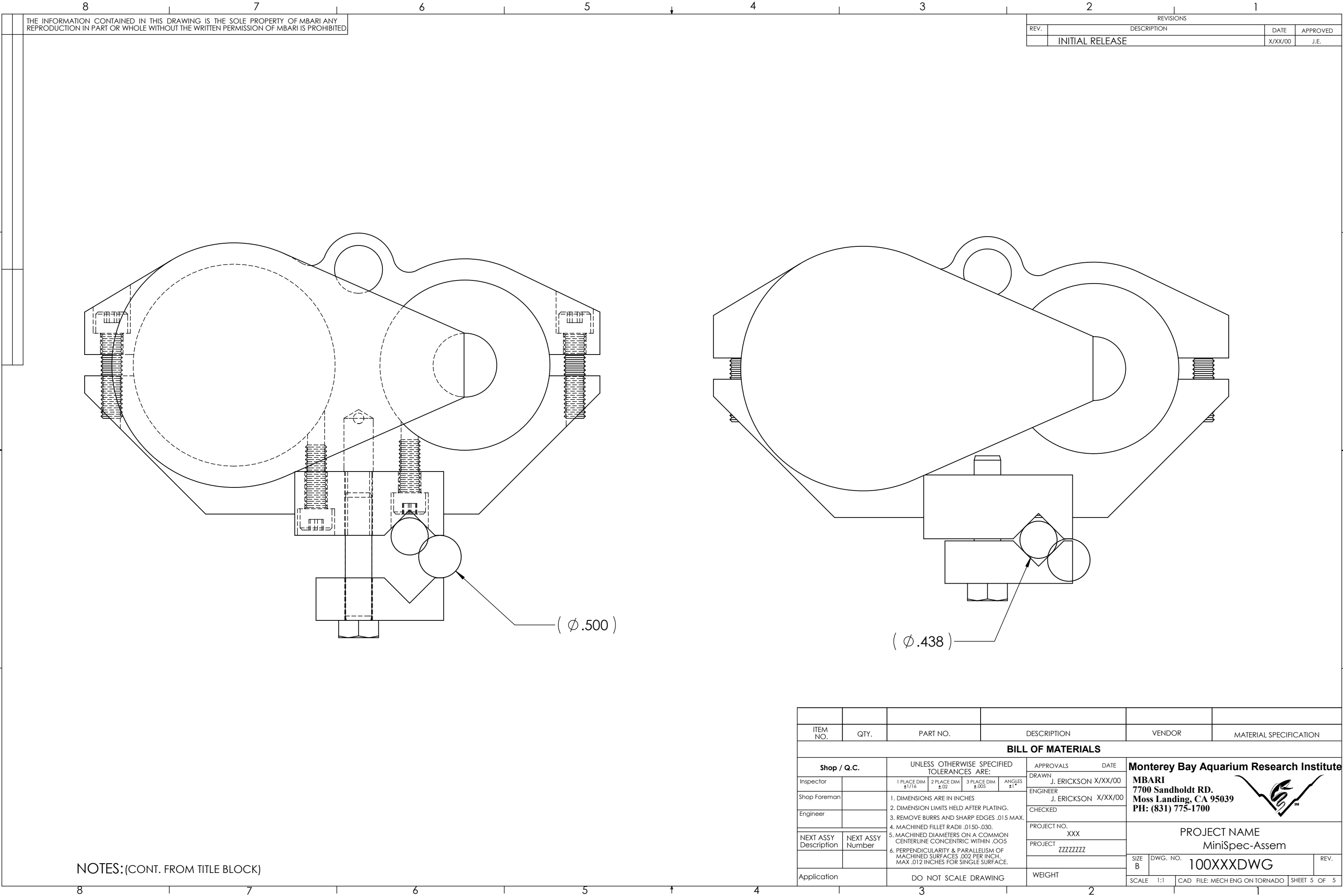
NOTES:(CONT. FROM TITLE BLOCK)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	VENDOR	MATERIAL SPECIFICATION
BILL OF MATERIALS					
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE	
Inspector		1 PLACE DIM $\pm 1/16$	2 PLACE DIM $\pm .02$	3 PLACE DIM $\pm .005$	ANGLES $\pm 1^\circ$
Shop Foreman		1. DIMENSIONS ARE IN INCHES		DRAWN J. ERICKSON 4/26/04	
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.		ENGINEER J. ERICKSON 4/26/04	
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.		CHECKED	
		4. MACHINED FILLET RADII .0150-.030.		PROJECT NO. 900303	
NEXT ASSY Description	NEXT ASSY Number	5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005		PROJECT CIMT	
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.		SIZE B DWG. NO. 1002413.DWG REV.	
Application		DO NOT SCALE DRAWING		WEIGHT	
				SCALE 1:1 CAD FILE: MECH ENG ON TORNADO SHEET 3 OF 5	

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CIMT-200405 MOORING BUOY
MiniSpec-Assem-CLAMP BACK PLATE





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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE	X/XX/00	J.E.

NOTES: (CONT. FROM TITLE BLOCK)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	VENDOR	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	DRAWN	J. ERICKSON X/XX/00
Shop Foreman		3 PLACE DIM ±.005	ANGLES ±1°	ENGINEER	J. ERICKSON X/XX/00
Engineer		1. DIMENSIONS ARE IN INCHES		CHECKED	
		2. DIMENSION LIMITS HELD AFTER PLATING.		PROJECT NO.	XXX
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.		PROJECT	ZZZZZZZZ
		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	1:1
				CAD FILE:	MECH ENG ON TORNADO
				SHEET	5 OF 5

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PROJECT NAME
MiniSpec-Assem

SIZE B DWG. NO. 100XXXDWG REV.