

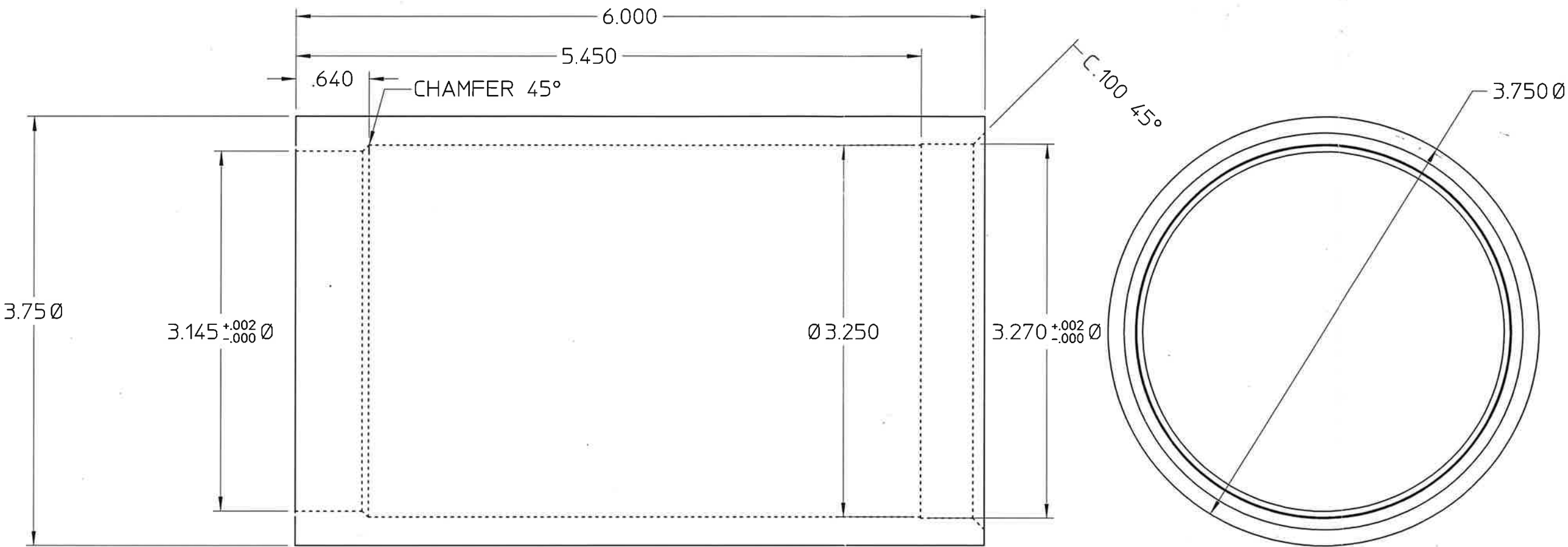
DWG NO

SH

REV

REVISIONS

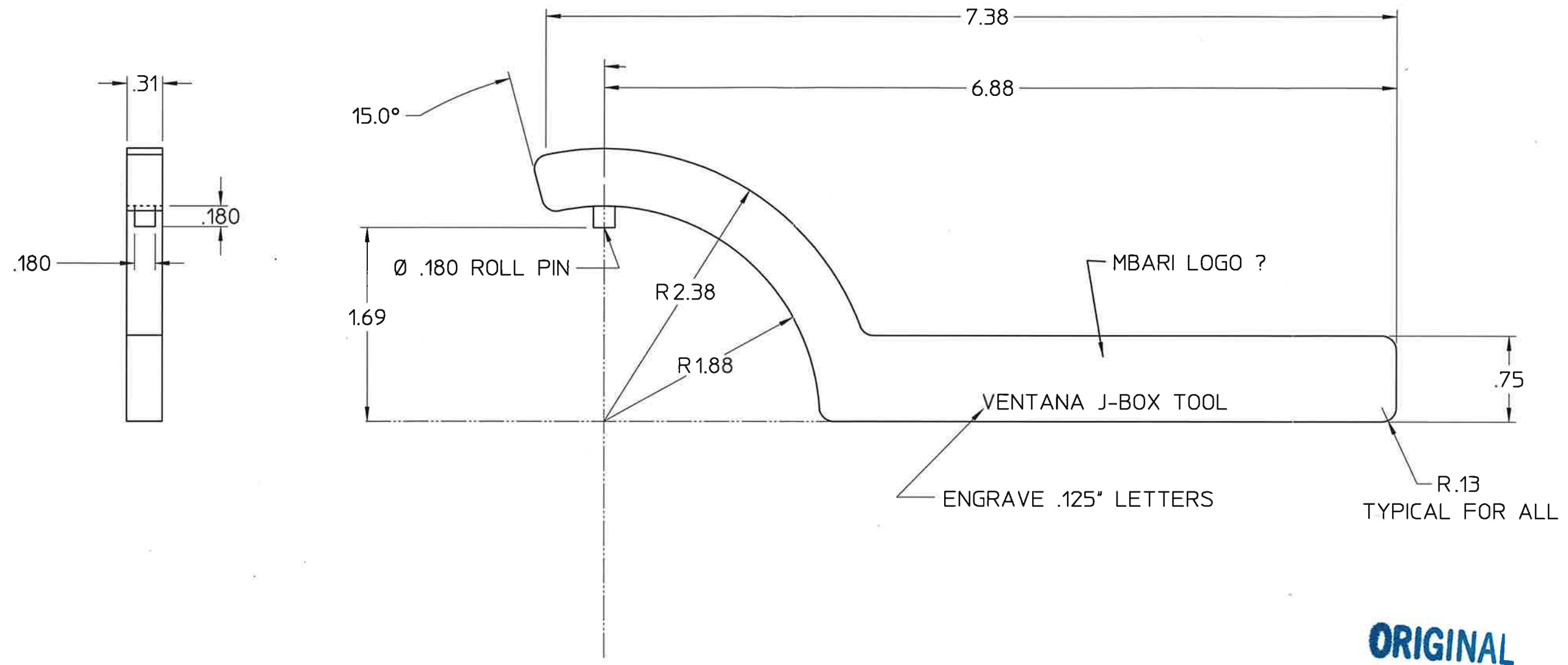
ZONE	REV	DESCRIPTION	DATE	APPROVED
		INITIAL RELEASE	05/18/98	
	A	REMOVED CEMENT INSERT	6/11/99	



NOTES
1 CHAMFER ALL EDGES .03 45°

ORIGINAL

4	1		ROD	CLEAR CAST ACRYLIC ROD 3.75 OD
QUANTITY	ITEM	PART NUMBER	DESCRIPTION	SPECIFICATION
LIST OF MATERIAL				
UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING			DRAWN BY	DATE
1 PLACE DIM 2 PLACE DIM 3 PLACE DIM ANGLES			CO	06/11/99
±1/16 ±.02 ±.005 ±1°			ENGINEER	DATE
1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS & SHARP EDGES .015 MAX. 4. MACHINED FILLET RADI .015-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE MUST BE CONCENTRIC WITHIN .005 T.I.R. UNMACHINED DIAMETERS CONCENTRIC WITHIN .030 T.I.R. 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.			CHECKED	DATE
			APPROVED	DATE
			PROJECT NO.	9809T2
			PROJECT	VENTANA
			SIZE	DRAWING NO.
			B	100155DWG
			SCALE	NONE
			FILE	C:\ME\VENTANA\JBOX
			SHEET	1 of 1



ORIGINAL

NOTES

FIT TOOL TO VENTANA J-BOX LOCK RING MBARI DRAWING NO. 100154DWG
ANODIZE HARD BLACK
BREAK ALL SHARP EDGES

2	1	LOCK RING TOOL		6061 ALUM BAR	
QUANTITY	ITEM	PART NUMBER	DESCRIPTION	SPECIFICATION	
LIST OF MATERIAL					
UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING			DRAWN BY CO	DATE 05/20/98	
1 PLACE DIM/2 PLACE DIM/3 PLACE DIM/ ANGLES ±1/16 ±.02 ±.005 ±1°			ENGINEER MB	DATE 5/21/98	
1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS & SHARP EDGES .015 MAX. 4. MACHINED FILLET RADI .015-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE MUST BE CONCENTRIC WITHIN .005 T.I.R. UNMACHINED DIAMETERS CONCENTRIC WITHIN .030 T.I.R. 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH MAX .012 INCHES FOR SINGLE SURFACE.			CHECKED MB	DATE 5/21/98	
APPROVED			PROJECT NO. 9809T2	DATE	
PROJECT VENTANA			SIZE B	DRAWING NO. 100159DWG	REV
SCALE NONE			FILE C:\MBARI\VENTANA\J\JBOX	SHEET 1 of 1	

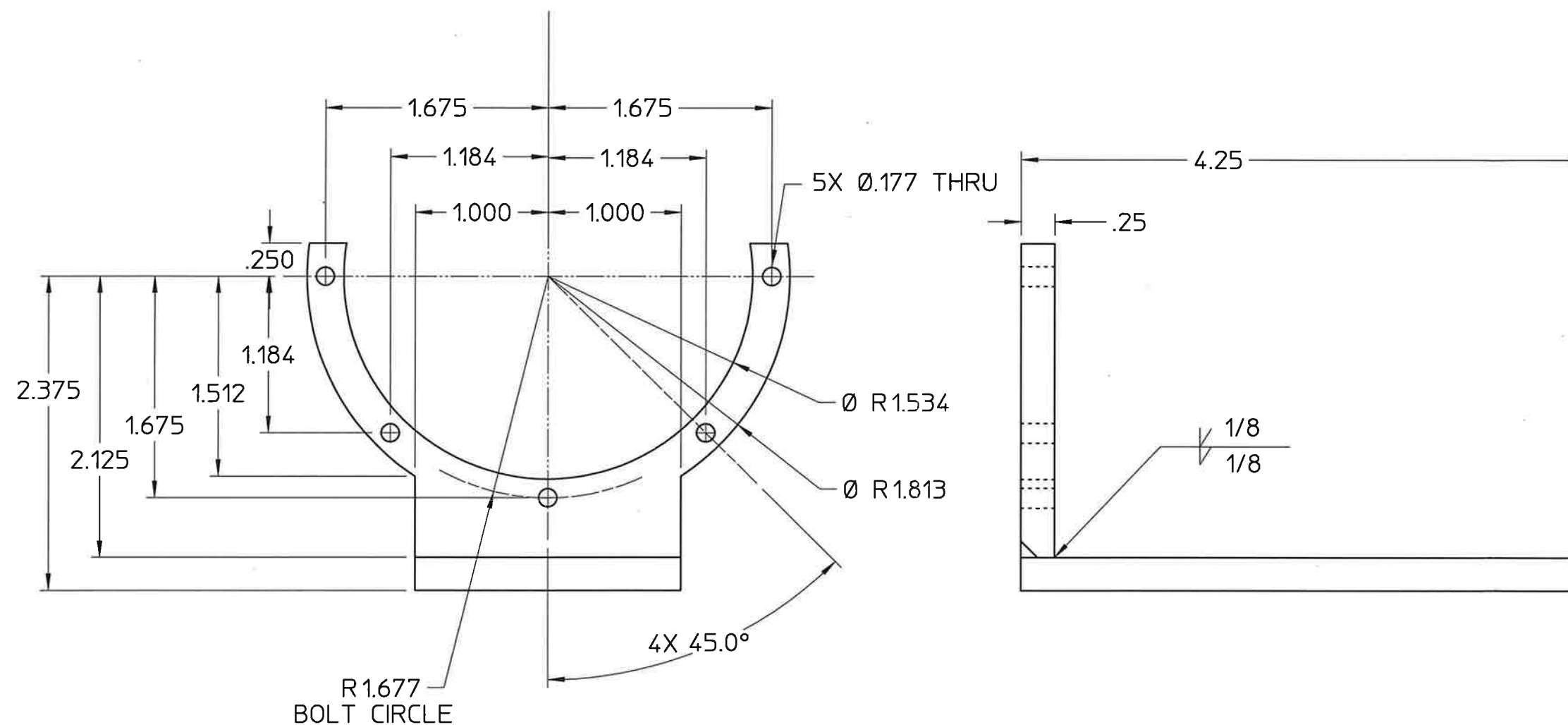
DWG NO

SH

REV

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
		INITIAL RELEASE	05/22/98	



ORIGINAL

ANODIZE PER MIL-A-8625F TYPE III

QUANTITY	1	PART NUMBER	MOUNTING BRACKET	6061 ALUM
DESCRIPTION	DESCRIPTION	SPECIFICATION		
LIST OF MATERIAL				
UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING				
1 PLACE DIM/2 PLACE DIM/3 PLACE DIM/ANGLES	ENGINEER	DATE	DATE	DATE
±1/16 ±.02 ±.005 ±1°	CO	05/22/98	DATE	DATE
1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS & SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .015-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE MUST BE CONCENTRIC WITHIN .005 T.I.R. UNMACHINED DIAMETERS CONCENTRIC WITHIN .030 T.I.R. 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH MAX .012 INCHES FOR SINGLE SURFACE.	CHECKED	DATE	DATE	DATE
	APPROVED	DATE	DATE	DATE
	PROJECT NO.	9809T2	PROJECT	VENTANA
		SIZE	DRAWING NO.	REV
		B	100184DWG	
		SCALE	NONE	FILE
		DATE	05/22/98	SHEET 1 OF 1

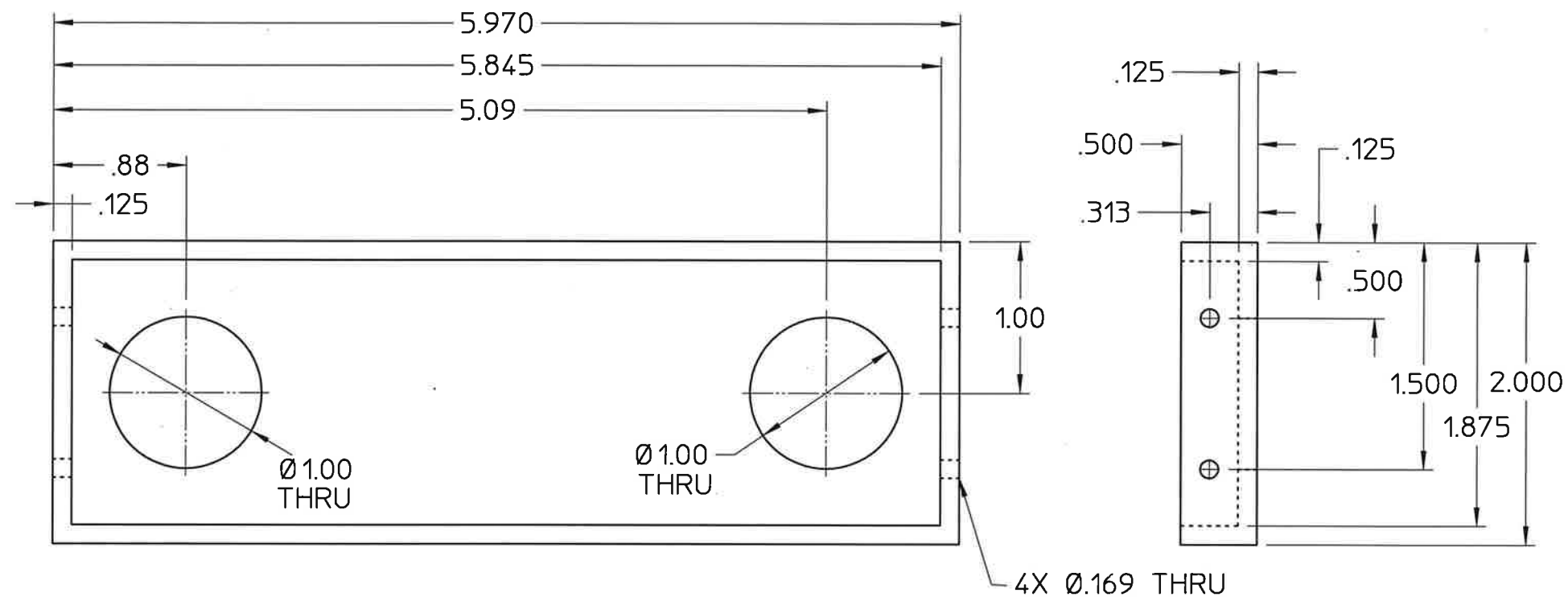
DWG NO

SH

REV

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
		INITIAL RELEASE	05/22/98	

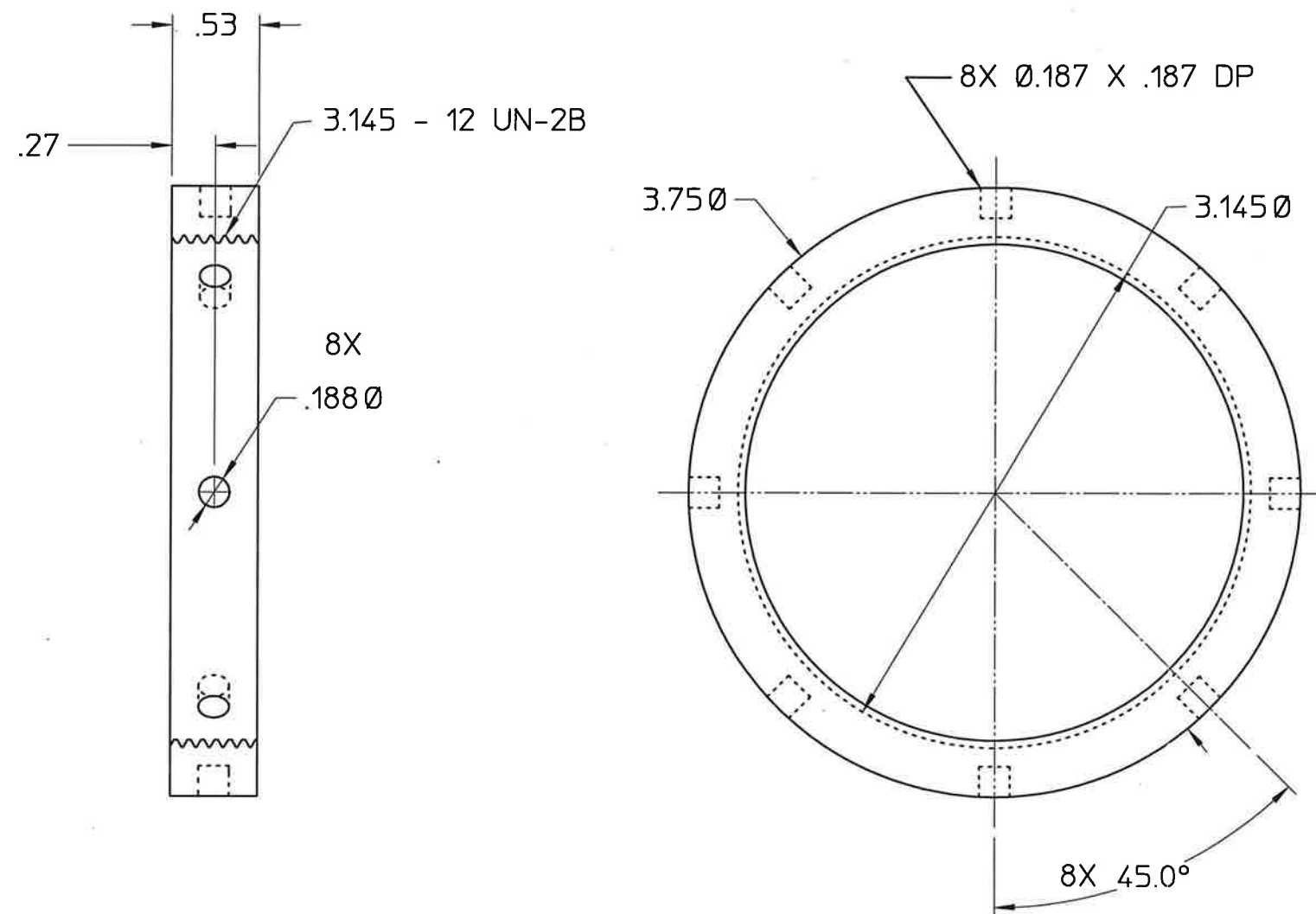


ORIGINAL

ANODIZE AS PER MIL-A-8625F TYPE III

4	1		TB SPLINE MOUNT	6061 ALUM BAR
QUANTITY	ITEM	PART NUMBER	DESCRIPTION	SPECIFICATION
LIST OF MATERIAL				
UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING			DRAWN BY CO	DATE 05/20/98
1 PLACE DIM/2 PLACE DIM/3 PLACE DIM/ANGLES	±1/16	±.02	±.005	±1°
1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS & SHARP EDGES .015 MAX. 4. MACHINED FILLET RADI .015-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE MUST BE CONCENTRIC WITHIN .005 T.I.R. UNMACHINED DIAMETERS CONCENTRIC WITHIN .030 T.I.R. 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.			CHECKED MB	DATE 5/22/98
PROJECT NO 9809T2			APPROVED	DATE
PROJECT VENTANA			MBARI 7700 SANDHOLT RD. MOSS LANDING, CA 95039 (408) 775-1922 MONTEREY BAY AQUARIUM RESEARCH INSTITUTE	
SIZE B			DRAWING NO. 100182DWG	
SCALE NONE			FILE C:\MB\VENTANA\JBSPLINE	
			SHEET 1 of 1	

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
		INITIAL RELEASE	05/18/98	



NOTES

THREAD RING TO FIT JB CAP LEFT SIDE MBARI DRAWING NO. 100152DWG

ORIGINAL

4	1		LOCK RING	DELFIN, BLACK
QUANTITY	ITEM	PART NUMBER	DESCRIPTION	SPECIFICATION
LIST OF MATERIAL				
UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING			DRAWN BY CO	DATE 05/20/98
1 PLACE DIM	2 PLACE DIM	3 PLACE DIM	ANGLES	ENGINEER DATE
±1/16	±.02	±.005	±1°	CHECKED MB 5/20/98
1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS & SHARP EDGES .015 MAX. 4. MACHINED FILLET RADIUS .015-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE MUST BE CONCENTRIC WITHIN .005 T.I.R. UNMACHINED DIAMETERS CONCENTRIC WITHIN .030 T.I.R. 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH MAX .012 INCHES FOR SINGLE SURFACE.			APPROVED DATE	PROJECT NO. 9809T2
			PROJECT VENTANA	SCALE NONE
			FILE C:\MB\VENTANA\JB.RING	SHEET 1 of 1

MBARI
7700 SANDHOLET RD.
MOSS LANDING, CA 95039
(415) 775-9722

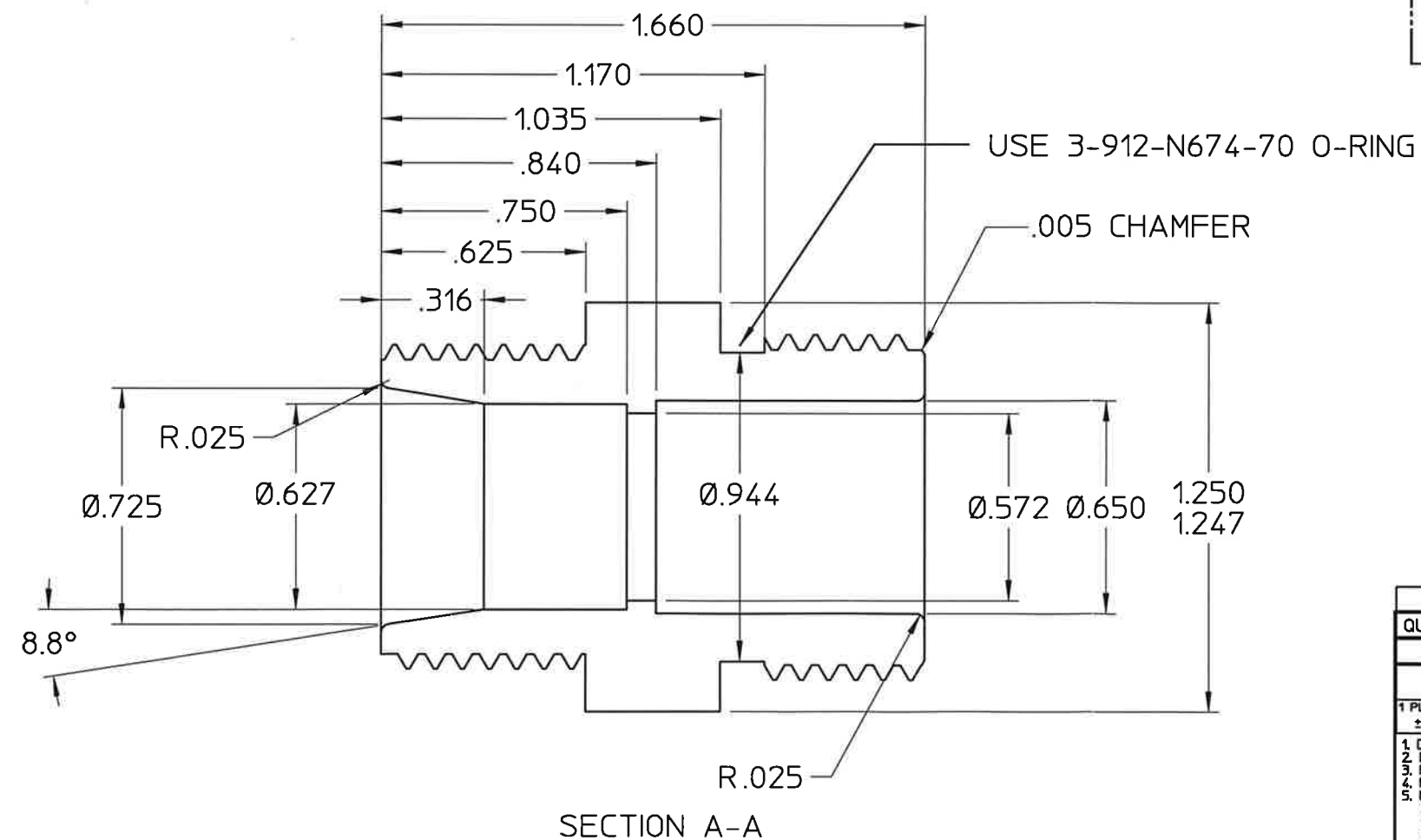
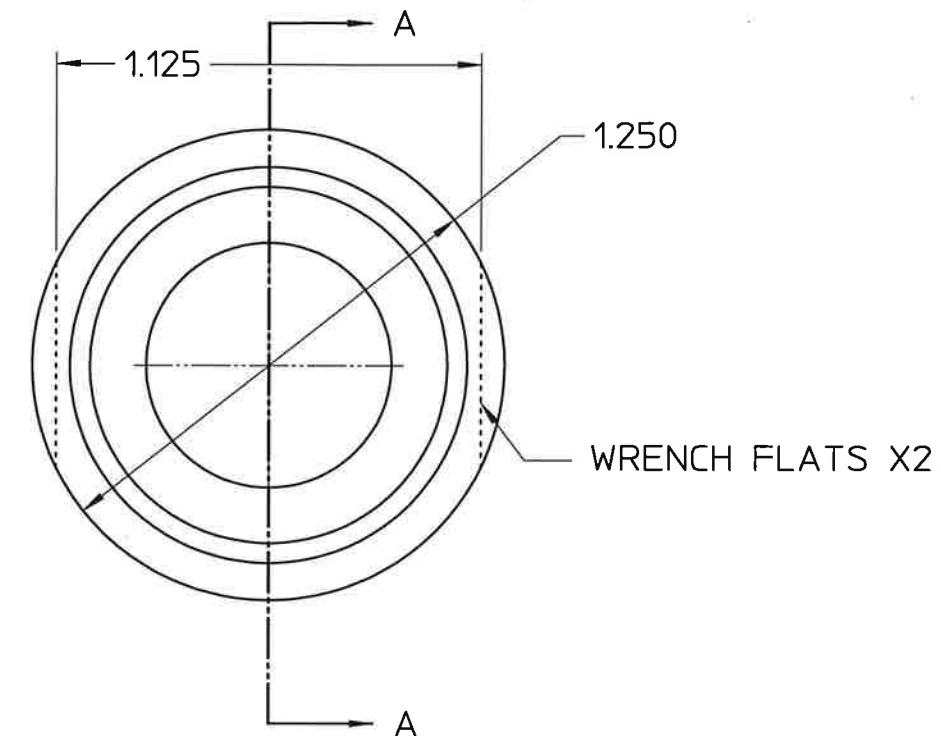
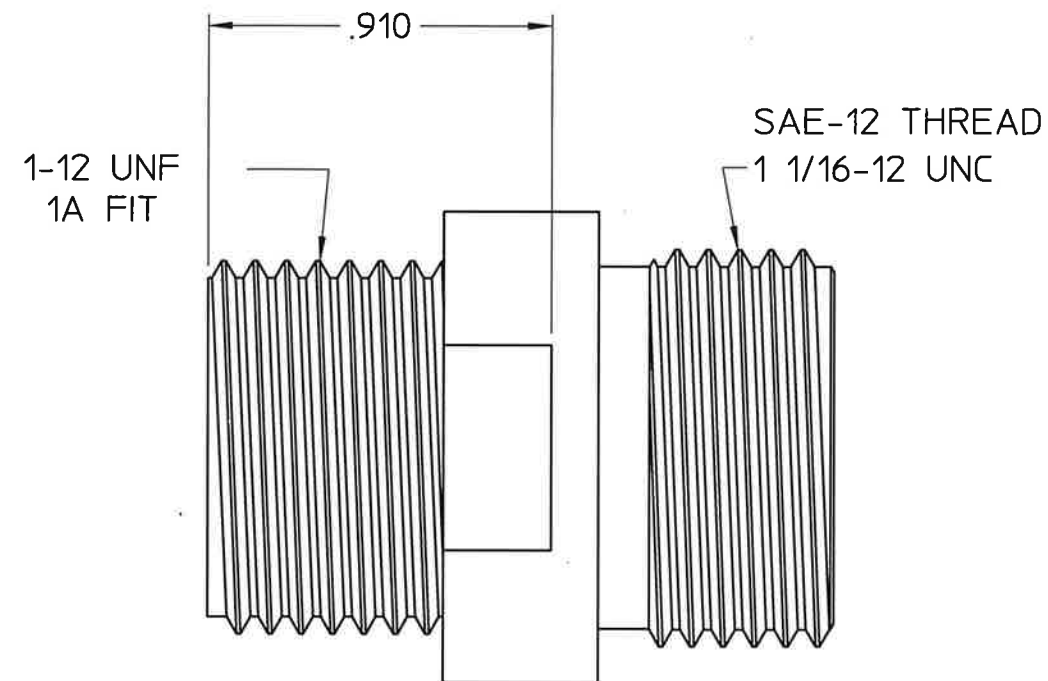
VENTANA JUNCTION
BOX LOCK RING

DRAWING NO.
100154DWG

REV

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
	-	INITIAL RELEASE	05/13/98	



ANODIZE HARD BLACK

ORIGINAL

1	1	ADAPTER	6061 T6
QUANTITY	ITEM	DESCRIPTION	SPECIFICATION
LIST OF MATERIAL			
UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING			
1 PLACE DIM/2 PLACE DIM/3 PLACE DIM/ANGLES	ENGINEER	DATE	DATE
±1/16 ±.02 ±.005 ±1°	CO	05/13/98	
1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS & SHARP EDGES .015 MAX. 4. MACHINED FILLET RADI .015-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE MUST BE CONCENTRIC WITHIN .005 T.I.R. UNMACHINED DIAMETERS CONCENTRIC WITHIN .030 T.I.R. 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH MAX .012 INCHES FOR SINGLE SURFACE.	CHECKED MB 5/13/98	DATE	DATE
PROJECT NO.	9809T2	PROJECT	VENTANA
SIZE	B	DRAWING NO.	100150DWG
SCALE	2X	FILE	C:\VIEW\VENTANA\0012
SHEET 1 of 1			

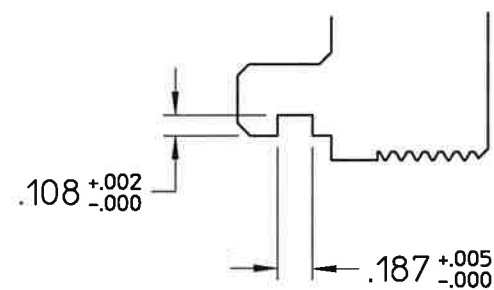
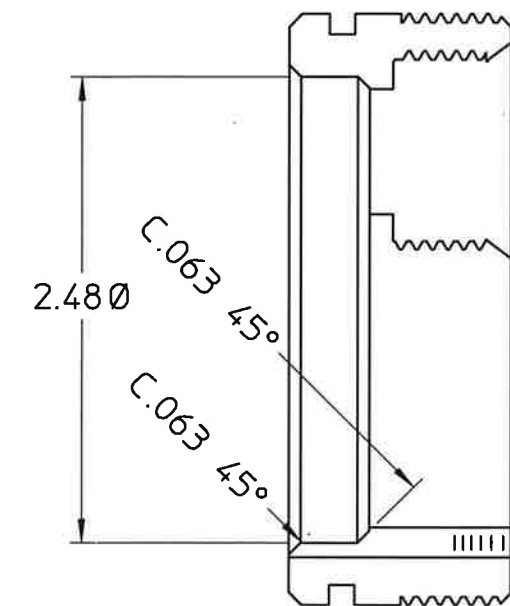
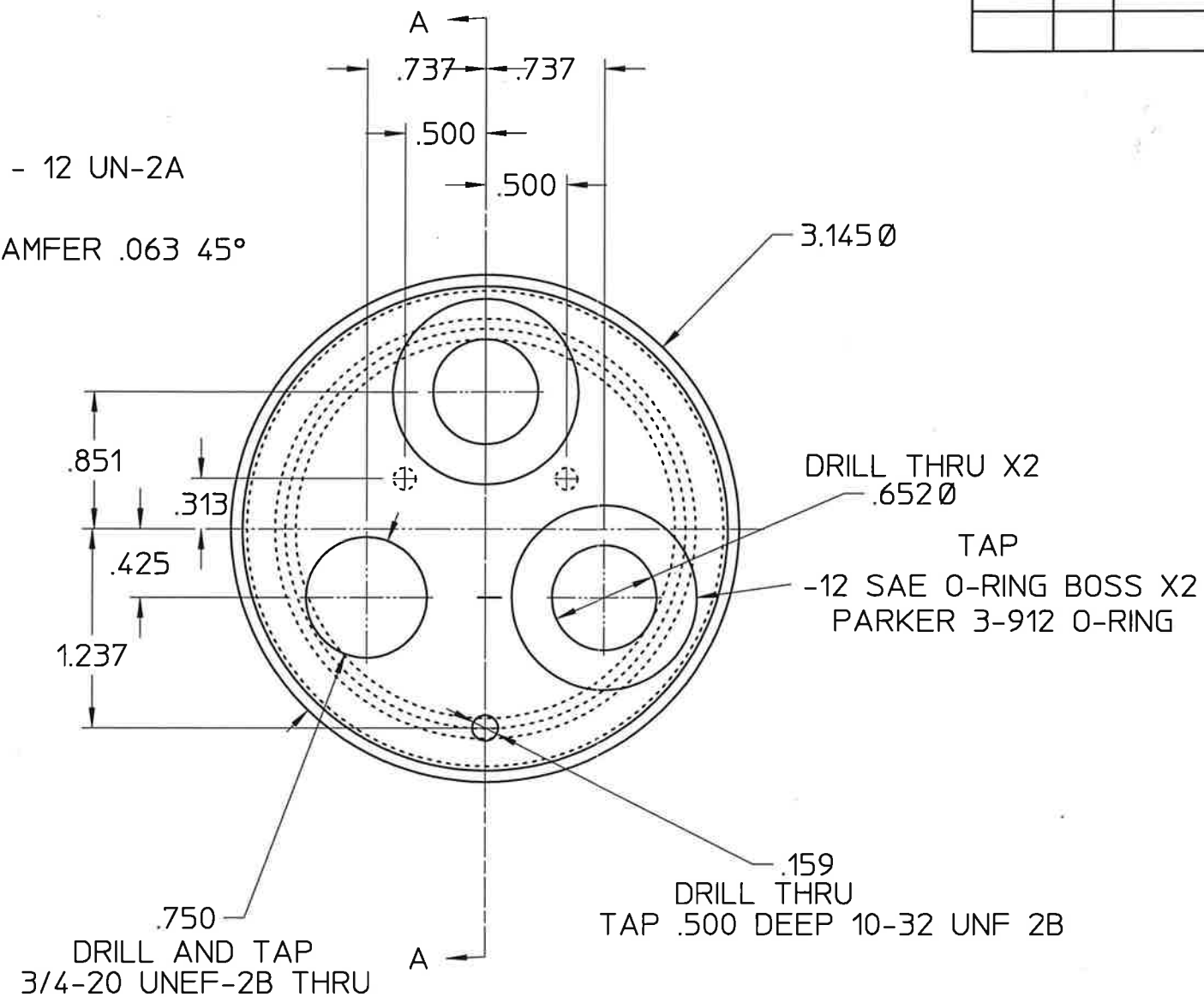
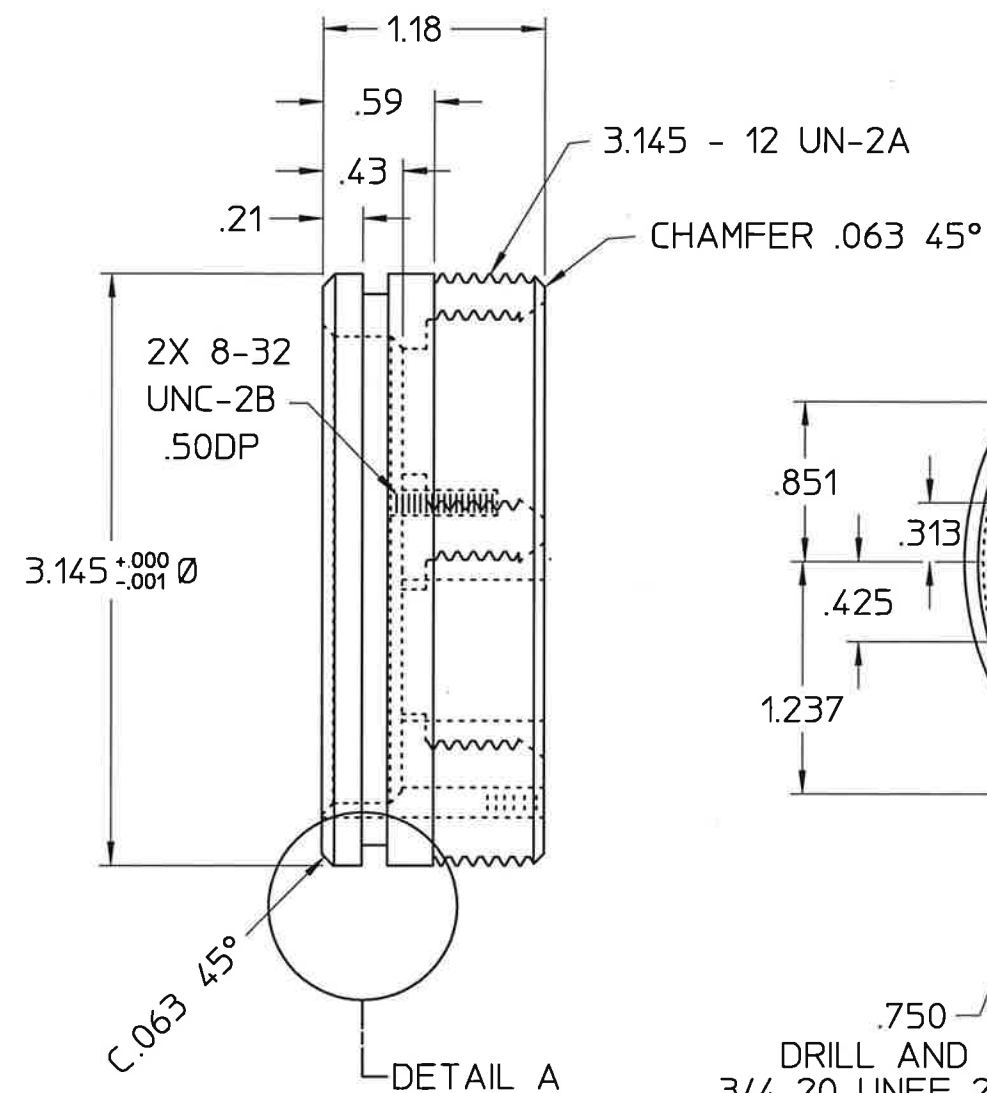
DWG NO

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REV

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
		INITIAL RELEASE	05/18/98	



DETAIL A
O-RING GROOVE
PARKER #2-233

ORIGINAL

8		1		CAP		DELIN, BLACK			
QUANTITY		ITEM		PART NUMBER		DESCRIPTION		SPECIFICATION	
LIST OF MATERIAL									
UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING				DRAWN BY CO		DATE 05/18/98		7700 SANDHOLT RD. MOSS LANDING, CA 95039 408 7759922	
1 PLACE DIM ± 1/16		2 PLACE DIM ± .02		3 PLACE DIM ± .005		ANGLES ± 1°		ENGINEER DATE	
1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS & SHARP EDGES .015 MAX. 4. MACHINED FILLET RADI .015-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE MUST BE CONCENTRIC WITHIN .005 T.I.R. UNMACHINED DIAMETERS CONCENTRIC WITHIN .030 T.I.R. 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.				CHECKED DATE		DATE		MBARI VENTANA JUNCTION BOX END CAP LEFT SIDE	
				APPROVED DATE		DATE			
				PROJECT NO. 9809T2					
				PROJECT VENTANA					
				SIZE B		DRAWING NO. 100152DWG		REV	
				SCALE NONE		FILE C:\NEW\VENTANA\BCAP2		SHEET 1 of 1	

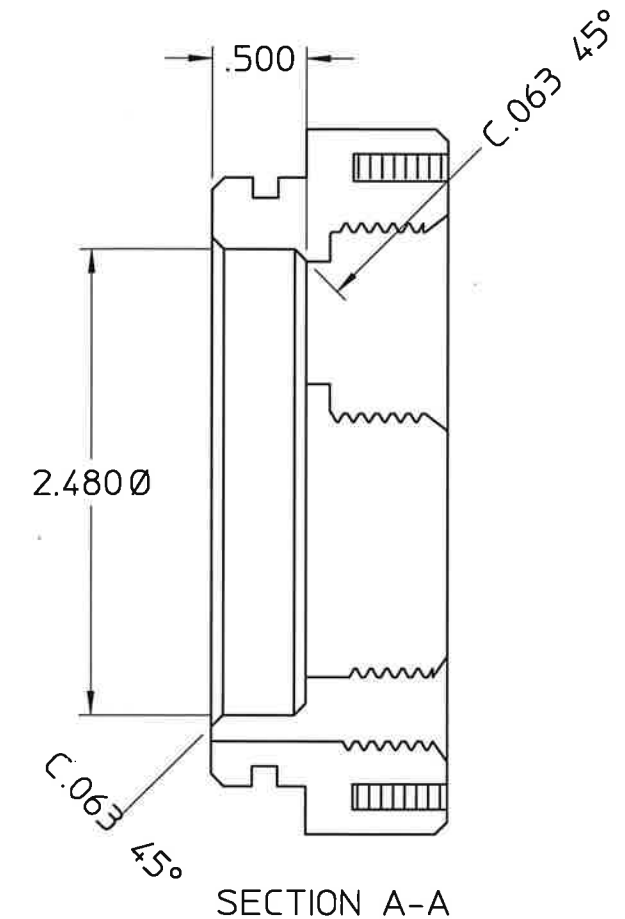
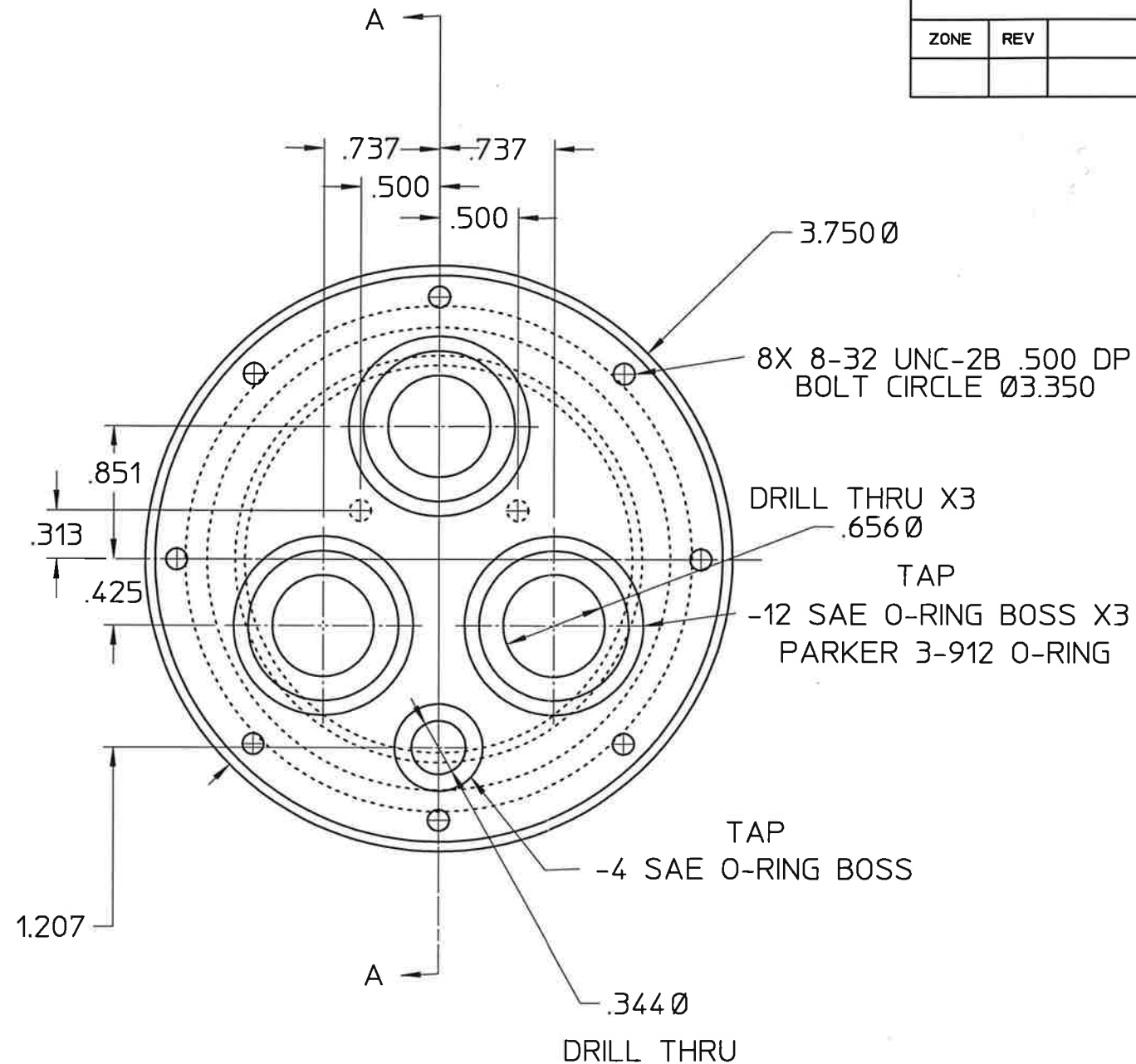
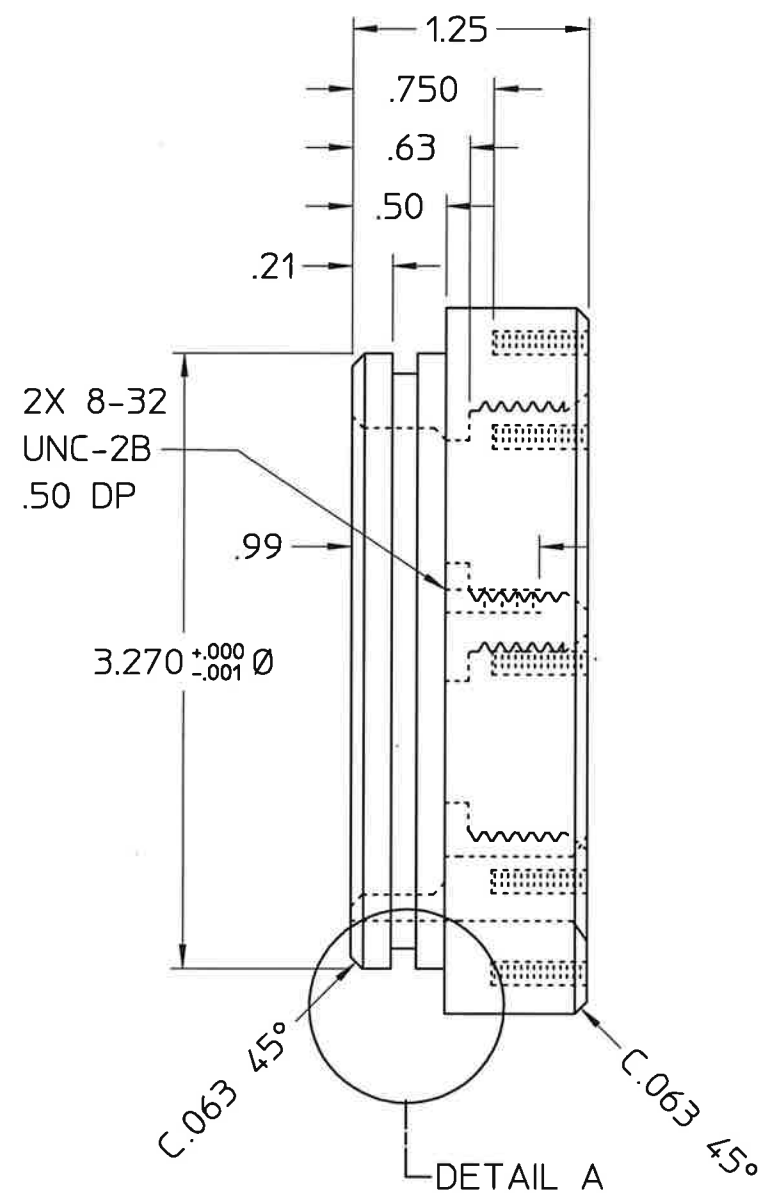
DWG NO

SH

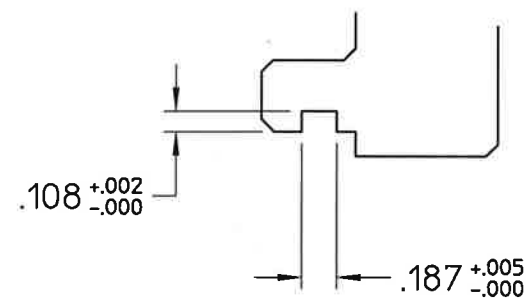
REV

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
		INITIAL RELEASE	05/18/98	



ORIGINAL

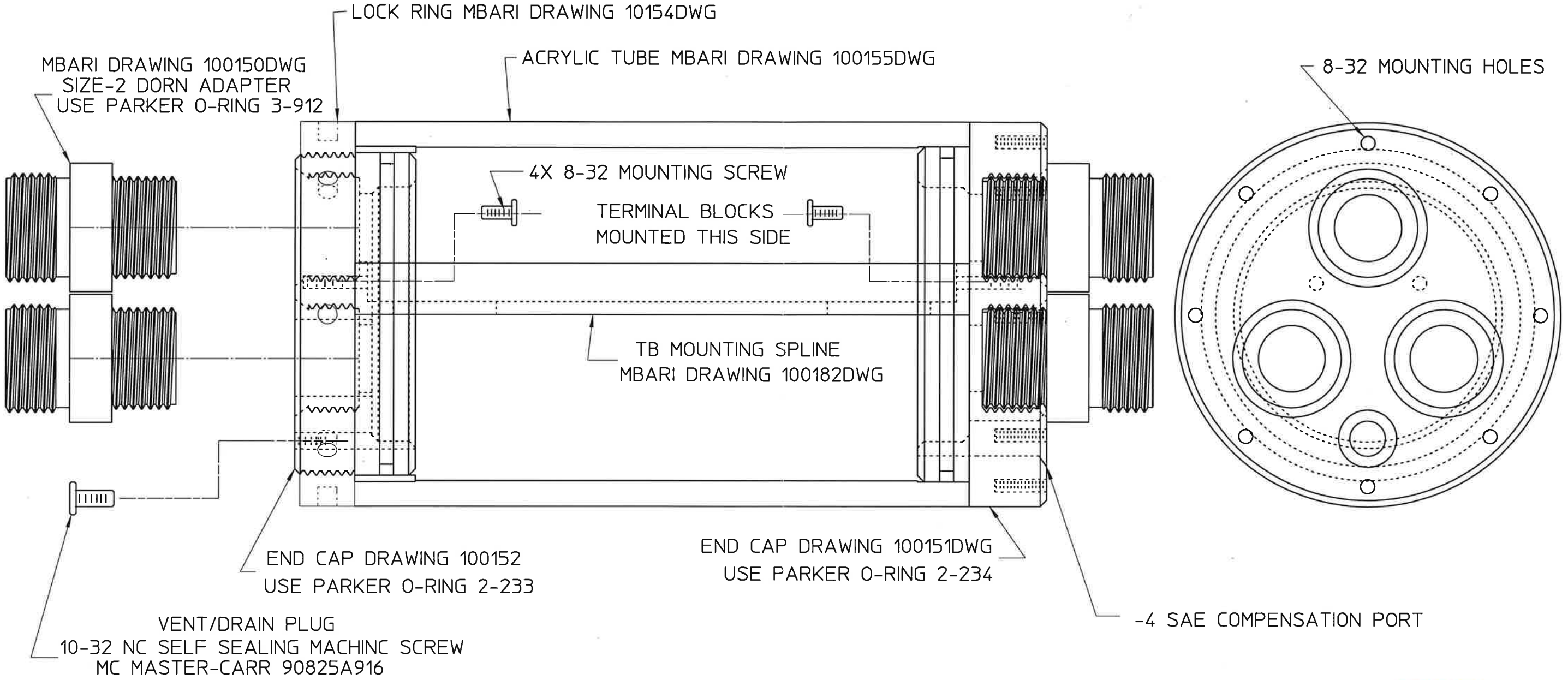


DETAIL A
O-RING GROOVE
PARKER #2-234

8		1		CAP		DELIN, BLACK			
QUANTITY		ITEM		PART NUMBER		DESCRIPTION		SPECIFICATION	
LIST OF MATERIAL									
UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING						DRAWN BY CO 05/18/98			
1 PLACE DIM 2 PLACE DIM 3 PLACE DIM ANGLES ± 1/16 ± .02 ± .005 ± 1°						DATE DATE			
						ENGINEER DATE			
						CHECKED DATE			
						APPROVED DATE			
						PROJECT NO. 9809T2			
						PROJECT VENTANA			
						SIZE B			
						DRAWING NO. 100151DWG			
						REV			
						SCALE NONE			
						FILE C:\ME\VENTANA\JCAP1			
						SHEET 1 of 1			

REVISIONS

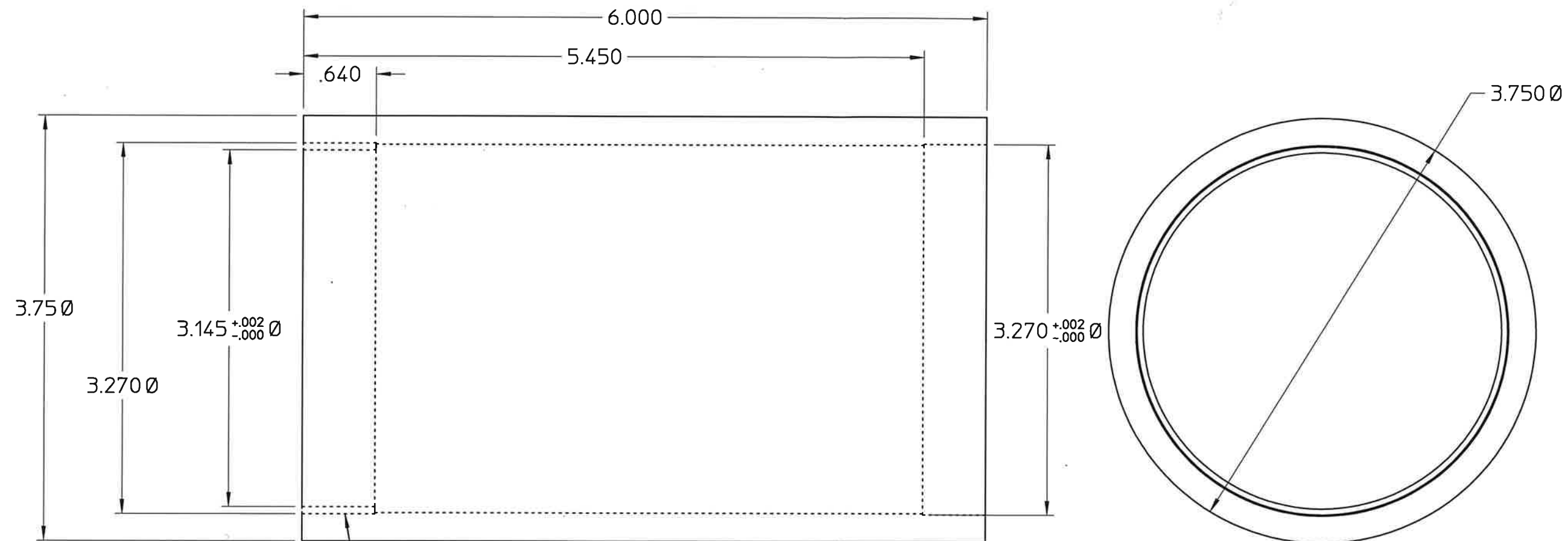
ZONE	REV	DESCRIPTION	DATE	APPROVED
		INITIAL RELEASE	05/22/98	



ORIGINAL

	1			
QUANTITY	ITEM	PART NUMBER	DESCRIPTION	SPECIFICATION
LIST OF MATERIAL				
UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING			DRAWN BY CO	DATE 05/20/98
1 PLACE DIM/2	PLACE DIM/3	PLACE DIM/4	ANGLES	MBARI 7700 SANDHOLT RD. MOSS LANDING, CA 95039 408 775922 MONTEREY BAY AQUARIUM RESEARCH INSTITUTE VENTANA JUNCTION BOX OVER ALL VIEW
±1/16	±.02	±.005	± 1°	
1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS & SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .015-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE MUST BE CONCENTRIC WITHIN .005 T.I.R. UNMACHINED DIAMETERS CONCENTRIC WITHIN .030 T.I.R. 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.				
ENGINEER				
CHECKED			DATE	
APPROVED			DATE	
PROJECT NO.			9809T2	
PROJECT			VENTANA	
SIZE		DRAWING NO.		REV
B		100183DWG		
SCALE		NONE		FILE
		C:\PDS\VENTANA.BOX		SHEET 1 of 1

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
		INITIAL RELEASE	05/18/98	



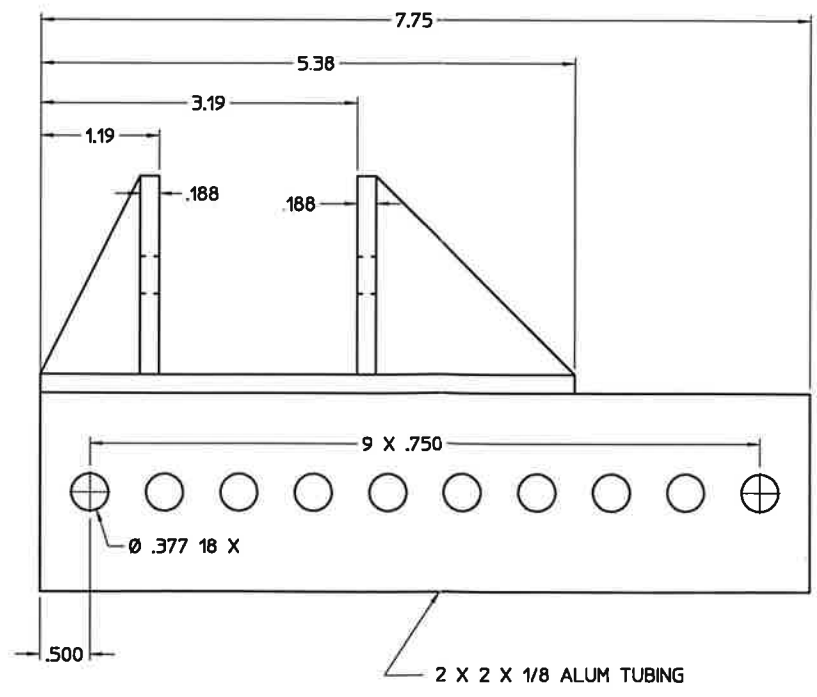
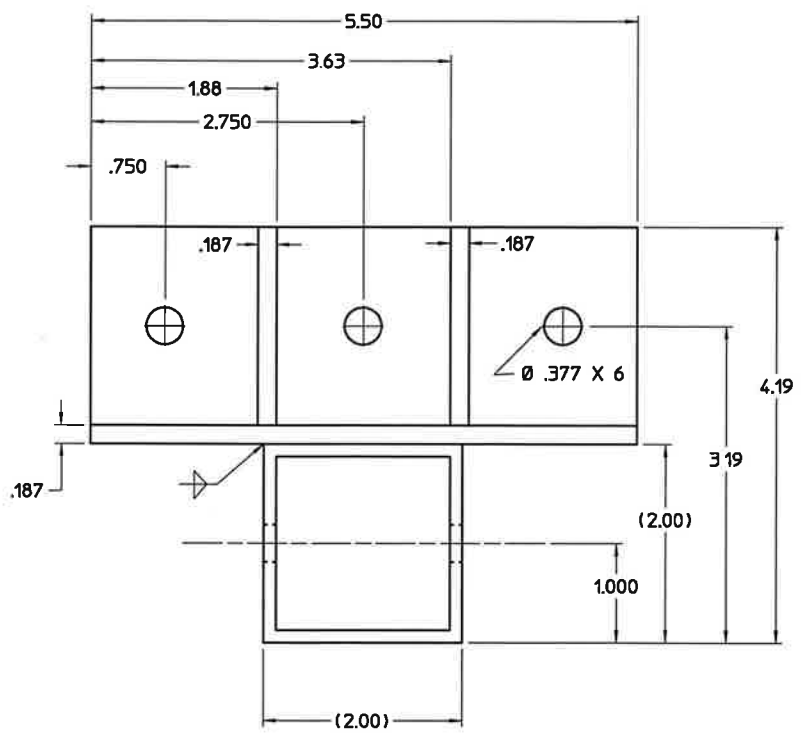
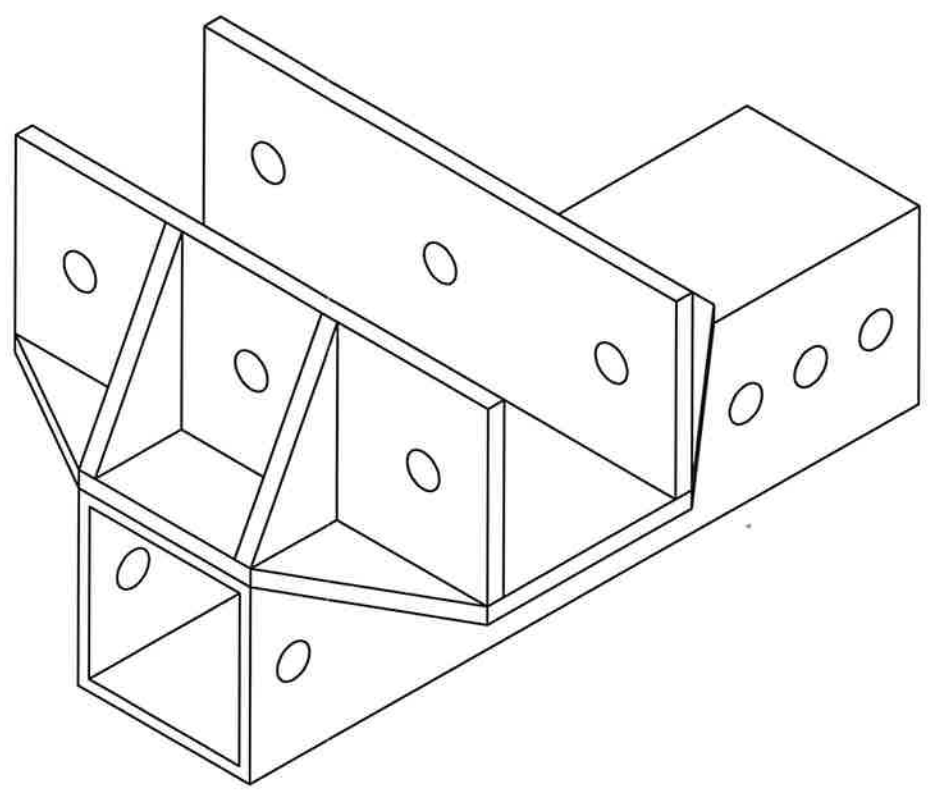
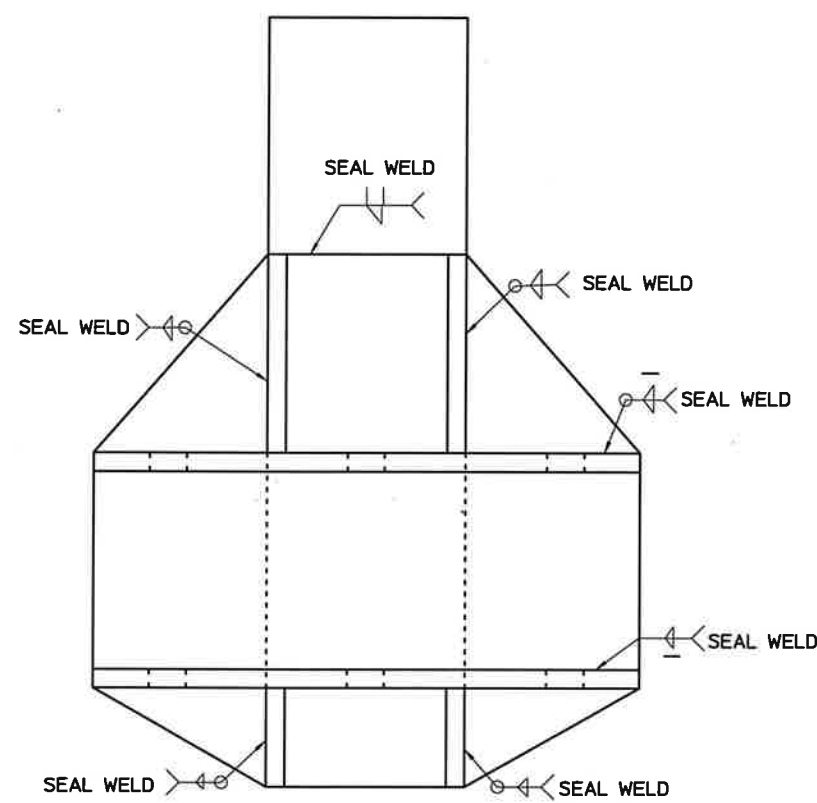
SEE NOTES BELOW

ORIGINAL

- NOTES
- 1 CHAMFER ALL EDGES .03 45°
 - 2 CEMENT INTERNAL SPACER RING FOR PROPER ID

4	1	TUBE CAST ACRYLIC TUBE 3.75 OD .250 WALL		
QUANTITY	ITEM	PART NUMBER	DESCRIPTION	SPECIFICATION
LIST OF MATERIAL				
UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING		DATE	7700 SANDHOLDT RD. MONTEREY, CA 95039	
1 PLACE DIM 1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	4 ANGLES ± 1°	DATE 05/20/98
1. DIMENSIONS ARE IN INCHES.		MBARI MONTEREY BAY AQUARIUM RESEARCH INSTITUTE		
2. DIMENSION LIMITS HELD AFTER PLATING.		VENTANA JUNCTION BOX TUBE		
3. REMOVE BURRS & SHARP EDGES .015 MAX.		DATE 5/20/98		
4. MACHINED FILLET RADIUS .015-.030.		APPROVED		
5. MACHINED DIAMETERS ON A COMMON CENTERLINE MUST BE CONCENTRIC WITHIN .005 T.I.R. UNMACHINED DIAMETERS CONCENTRIC WITHIN .030 T.I.R.		PROJECT NO. 9809T2		
6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH MAX .012 INCHES FOR SINGLE SURFACE.		PROJECT VENTANA		
SIZE B	DRAWING NO. 100155DWG	REV		
SCALE NONE	FILE	SHEET 1 of 1		

ZONE		REV	REVISIONS		DATE	INITIAL
-		-	INITIAL RELEASE		6/1/98	CO

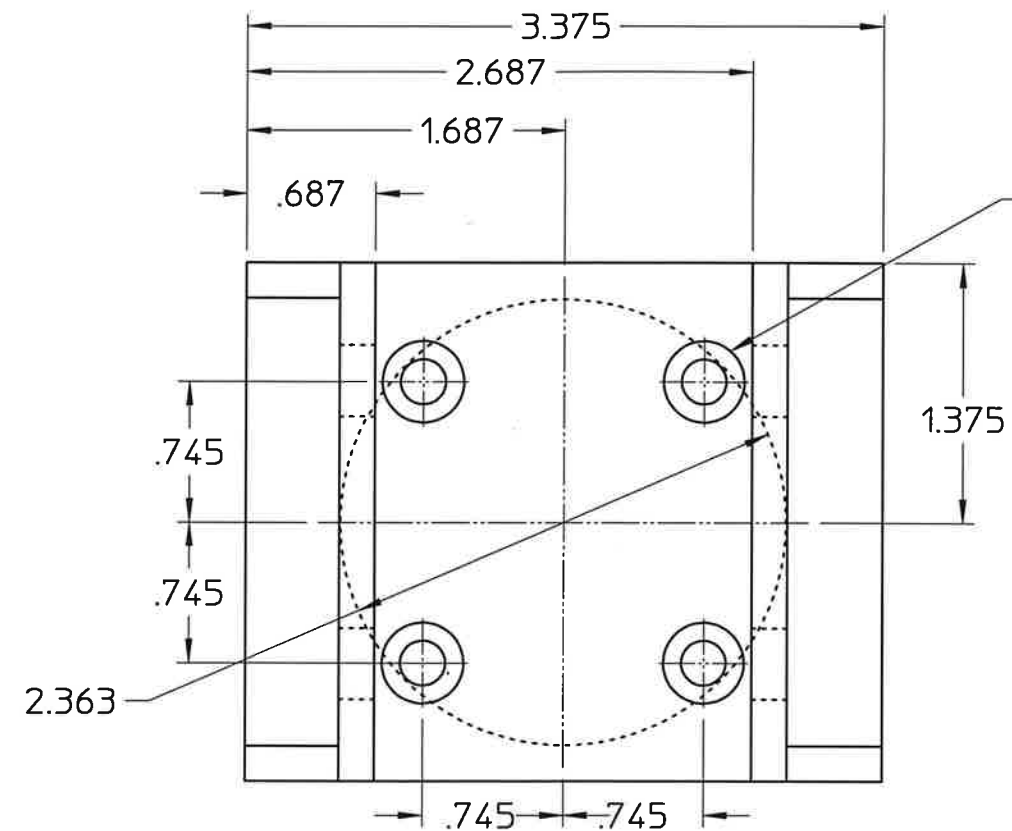


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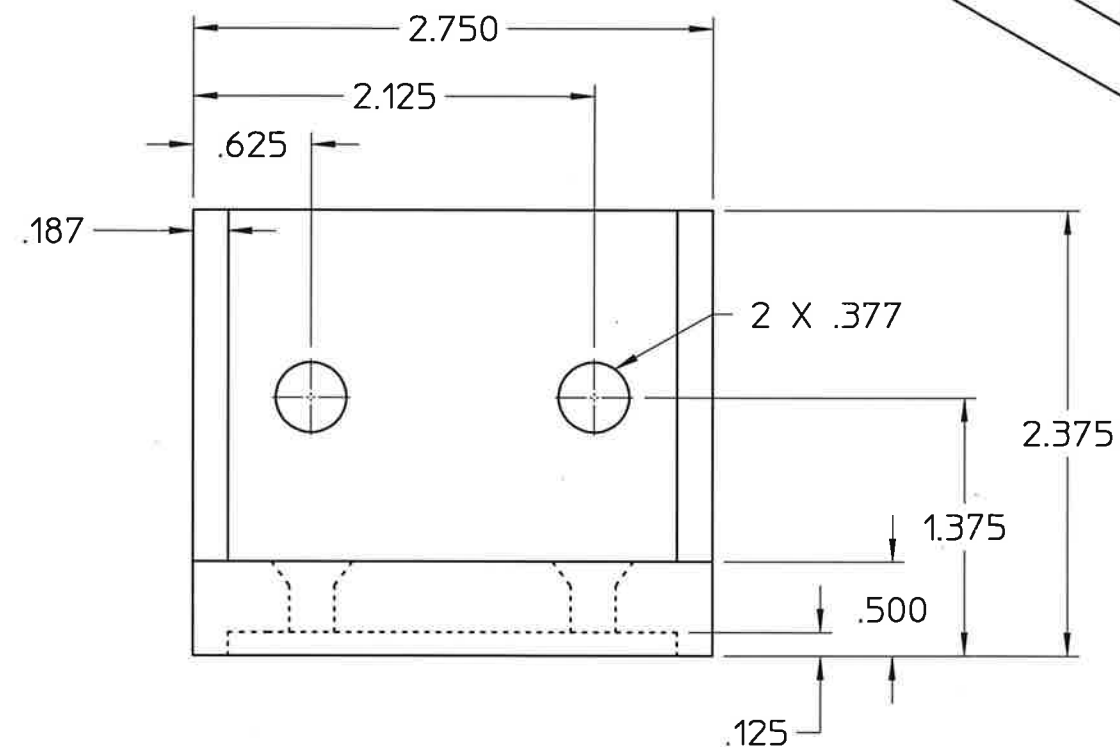
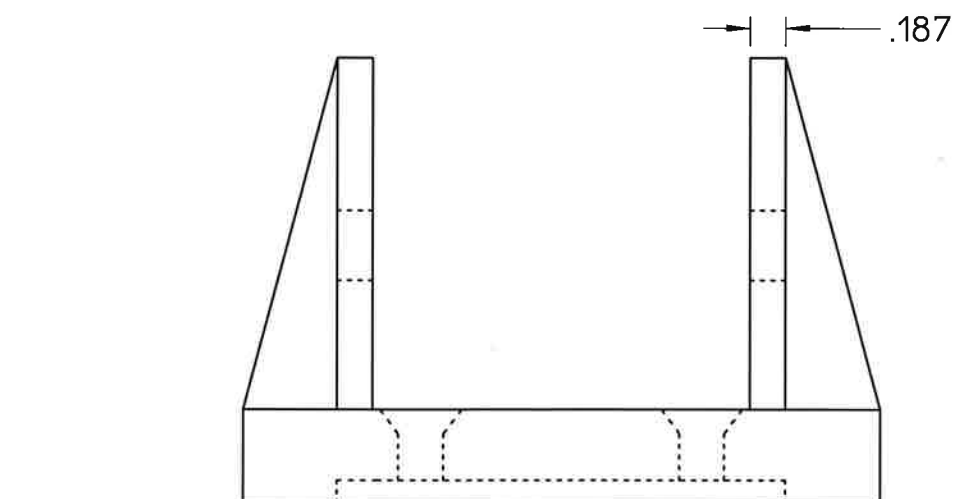
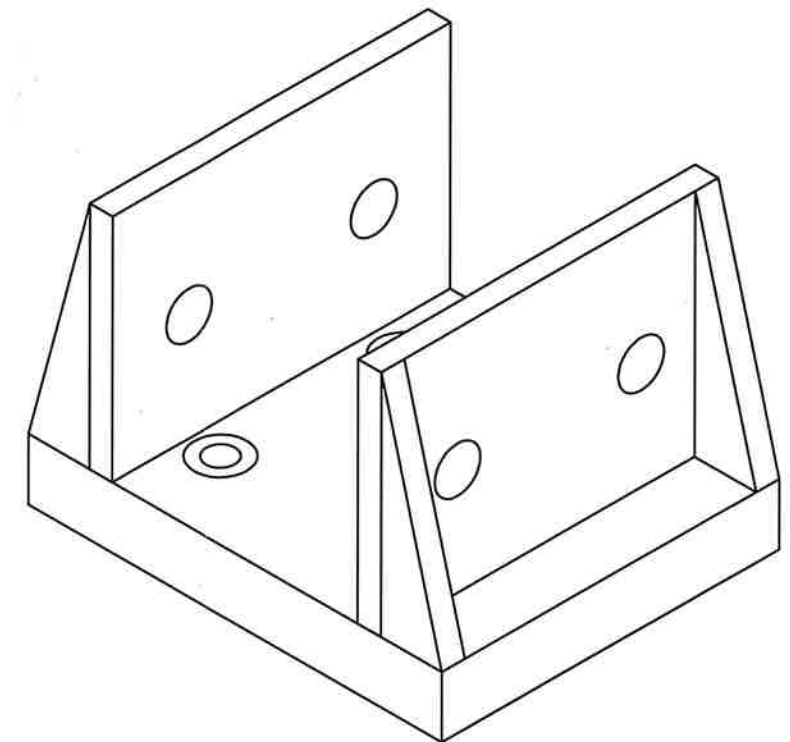
ANODIZE PER MIL-A-8625F TYPE III

QUANTITY	ITEM	PART NUMBER	DESCRIPTION	SPECIFICATION
1	1		MOUNT	6061 T6
LIST OF MATERIAL				
UNLESS OTHERWISE SPECIFIED				
DO NOT SCALE DRAWING				
1. PLACE DRUG PLACE DRUG PLACE DRUG	DATE	DATE	DATE	DATE
±1/16	±.02	±.005	±.005	±.005
1. DIMENSIONS ARE IN INCHES				
2. DIMENSION LIMITS HELD AFTER PLATING				
3. REMOVE BURRS & SHARP EDGES .015 MAX				
4. MACHINED FILLET RADIUS .015-.030				
5. MACHINED DIAMETERS ON A COMMON CENTERLINE MUST BE CONCENTRIC WITHIN .005 T.I.R. UNMACHINED DIAMETERS CONCENTRIC WITHIN .030 T.I.R.				
6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH MAX .012 INCHES FOR SINGLE SURFACE				
VENTANA			VENTANA	VENTANA
100193DWG			100193DWG	100193DWG
1			1	1

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED



4 X DRILL AND CS FOR
M6 METRIC FLAT HEAD



ORIGINAL

1	1		WELDMENT	6061
QUANTITY	ITEM	PART NUMBER	DESCRIPTION	SPECIFICATION
LIST OF MATERIAL				
UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING			DRAWN BY CO	DATE 06/04/98
1 PLACE DIM 2 PLACE DIM 3 PLACE DIM	ANGLES		ENGINEER	DATE
±1/16	±.02	±.005	±°	
1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS & SHARP EDGES .015 MAX. 4. MACHINED FILLET RADI .015-.030 5. MACHINED DIAMETERS ON A COMMON CENTERLINE MUST BE CONCENTRIC WITHIN .005 T.I.R. UNMACHINED DIAMETERS CONCENTRIC WITHIN .030 T.I.R. 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH MAX .012 INCHES FOR SINGLE SURFACE.			CHECKED	DATE
			APPROVED	DATE
PROJECT NO.				
PROJECT			VENTANA	
			 7700 SANDHOLT RD. MOSS LANDING, CA 95039 (408) 775-9922 MONTEREY BAY AQUARIUM RESEARCH INSTITUTE 	
			VENTANA AUX CAMERA PAN+TILT LOWER MOUNT	
SIZE			DRAWING NO.	REV
B			100194DWG	
SCALE			NONE	FILE
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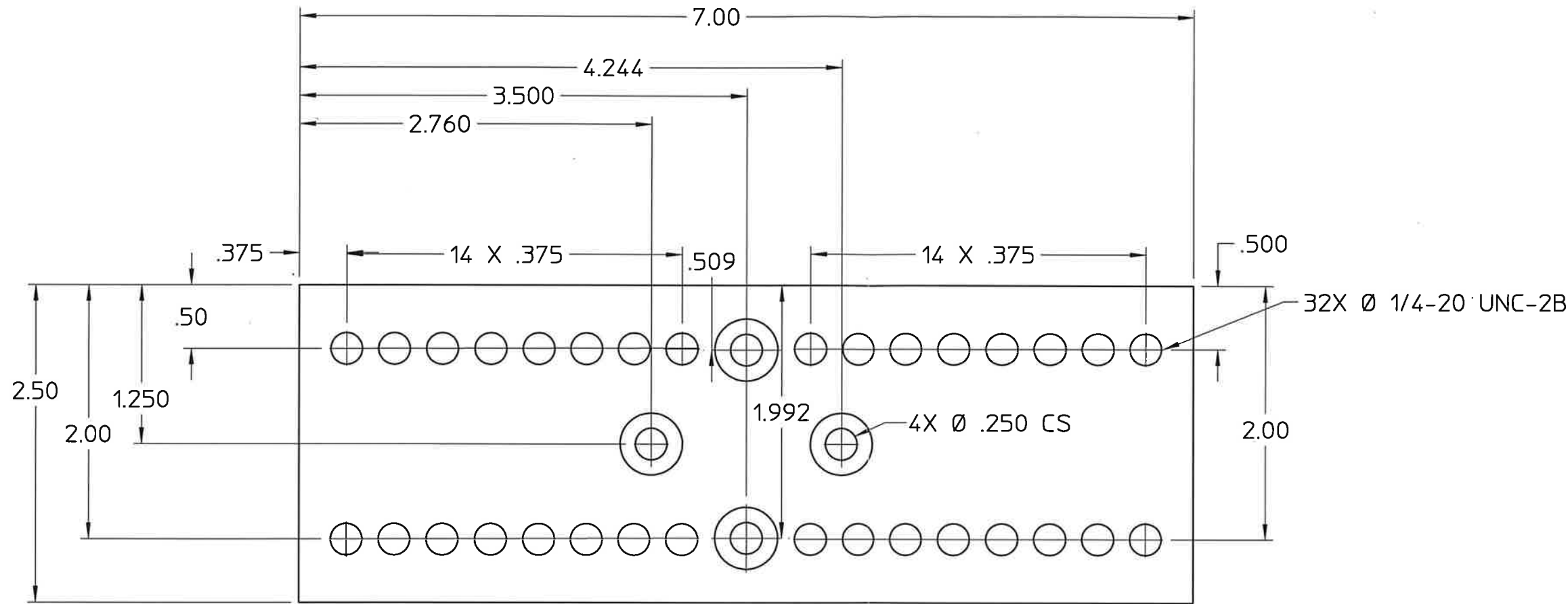
DWG NO

SH

REV

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
	-	INITIAL RELEASE	05/29/98	



(STOCK) .250

ORIGINAL

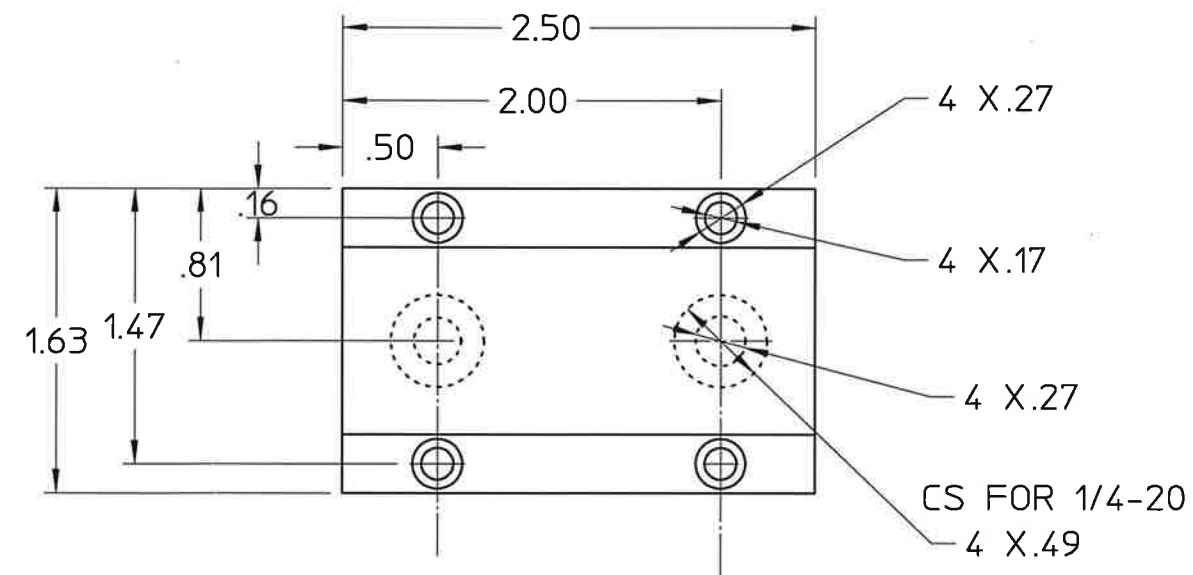
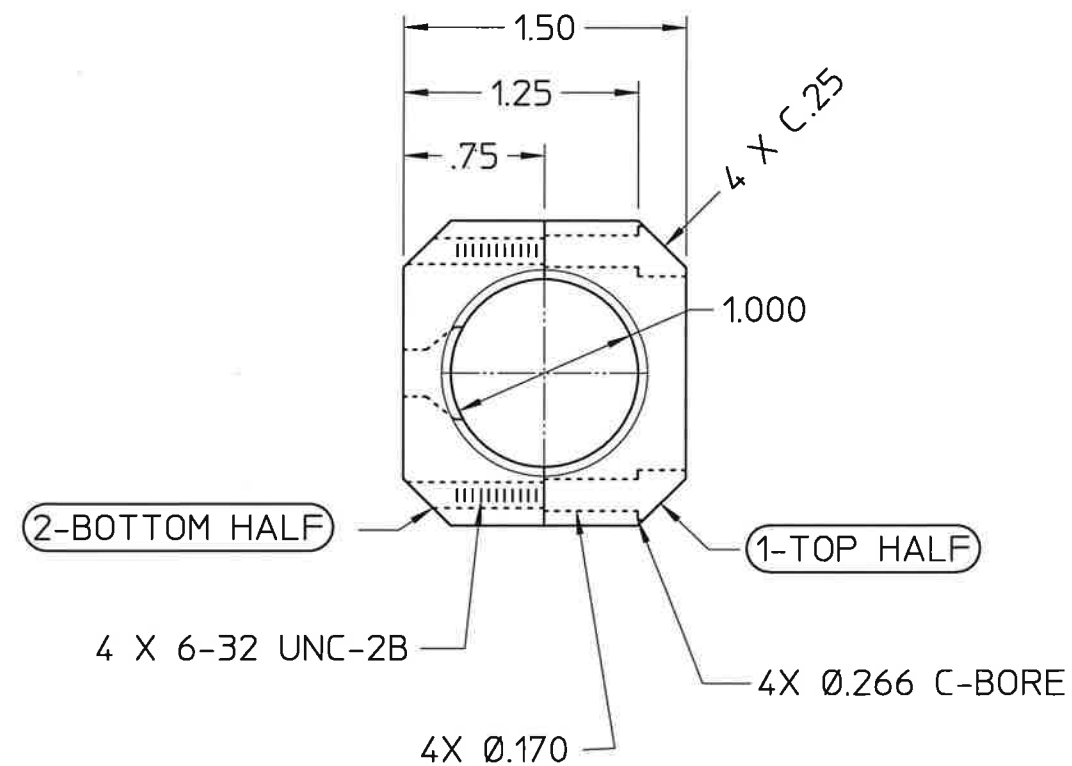
QUANTITY	ITEM	PART NUMBER	DESCRIPTION	SPECIFICATION
2	1		BAR	6061 ALUM
LIST OF MATERIAL				
UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING			DRAWN BY	DATE
1 PLACE DIM 2 PLACE DIM 3 PLACE DIM ANGLES			CO	05/29/98
± 1/16 ± .02 ± .005 ± 1°			ENGINEER	DATE
1. DIMENSIONS ARE IN INCHES.			CHECKED	DATE
2. DIMENSION LIMITS HELD AFTER PLATING.			APPROVED	DATE
3. REMOVE BURRS & SHARP EDGES .015 MAX.			PROJECT NO.	
4. MACHINED FILLET RADII .015-.030.			PROJECT	VENTANA
5. MACHINED DIAMETERS ON A COMMON CENTERLINE MUST BE CONCENTRIC WITHIN .005 T.I.R. UNMACHINED DIAMETERS CONCENTRIC WITHIN .030 T.I.R.			SCALE	NONE
6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.			FILE	C:\MSV\VENTANA\PTSIDES
			SIZE	DRAWING NO.
			B	100195DWG
			REV	
			SHEET	1 of 1

MBARI 7700 SANDHOLDT RD.
PO BOX 140000 CA 95029
408 7759222
MONTEREY BAY AQUARIUM RESEARCH INSTITUTE

VENTANA UPPER
P/T CAMERA MOUNT

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
	-	INITIAL RELEASE	6/3/98	



ORIGINAL

1	2		BOTTOM HALF	DELIN
1	1		TOP HALF	DELIN
QUANTITY	ITEM	PART NUMBER	DESCRIPTION	SPECIFICATION
LIST OF MATERIAL				
UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING				
1 PLACE DIM	2 PLACE DIM	3 PLACE DIM	ANGLES	
±1/16	±.02	±.005	±1°	
1. DIMENSIONS ARE IN INCHES.			ENGINEER	DATE
2. DIMENSION LIMITS HELD AFTER PLATING.			CO	06/94/98
3. REMOVE BURRS & SHARP EDGES .015 MAX.			CHECKED	DATE
4. MACHINED FILLET RADIUS .015-.030.			APPROVED	DATE
5. MACHINED DIAMETERS ON A COMMON CENTERLINE MUST BE CONCENTRIC WITHIN .005 T.I.R. UNMACHINED DIAMETERS CONCENTRIC WITHIN .030 T.I.R.			PROJECT NO.	
6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH MAX .012 INCHES FOR SINGLE SURFACE.			PROJECT	
			VENTANA	
MBARI 7700 SANDHOLDT RD. 10333 LANDINE, CA 95039 408 775/9722 MONTEREY BAY AQUARIUM RESEARCH INSTITUTE				
VENTANA AUX CAMERA PAN+TILT DSPL MOUNT				
SIZE	DRAWING NO.	REV		
B	100196DWG			
SCALE	NONE	FILE	C:\MBARI\VENTANA\PTNSITE	SHEET 1 of 1

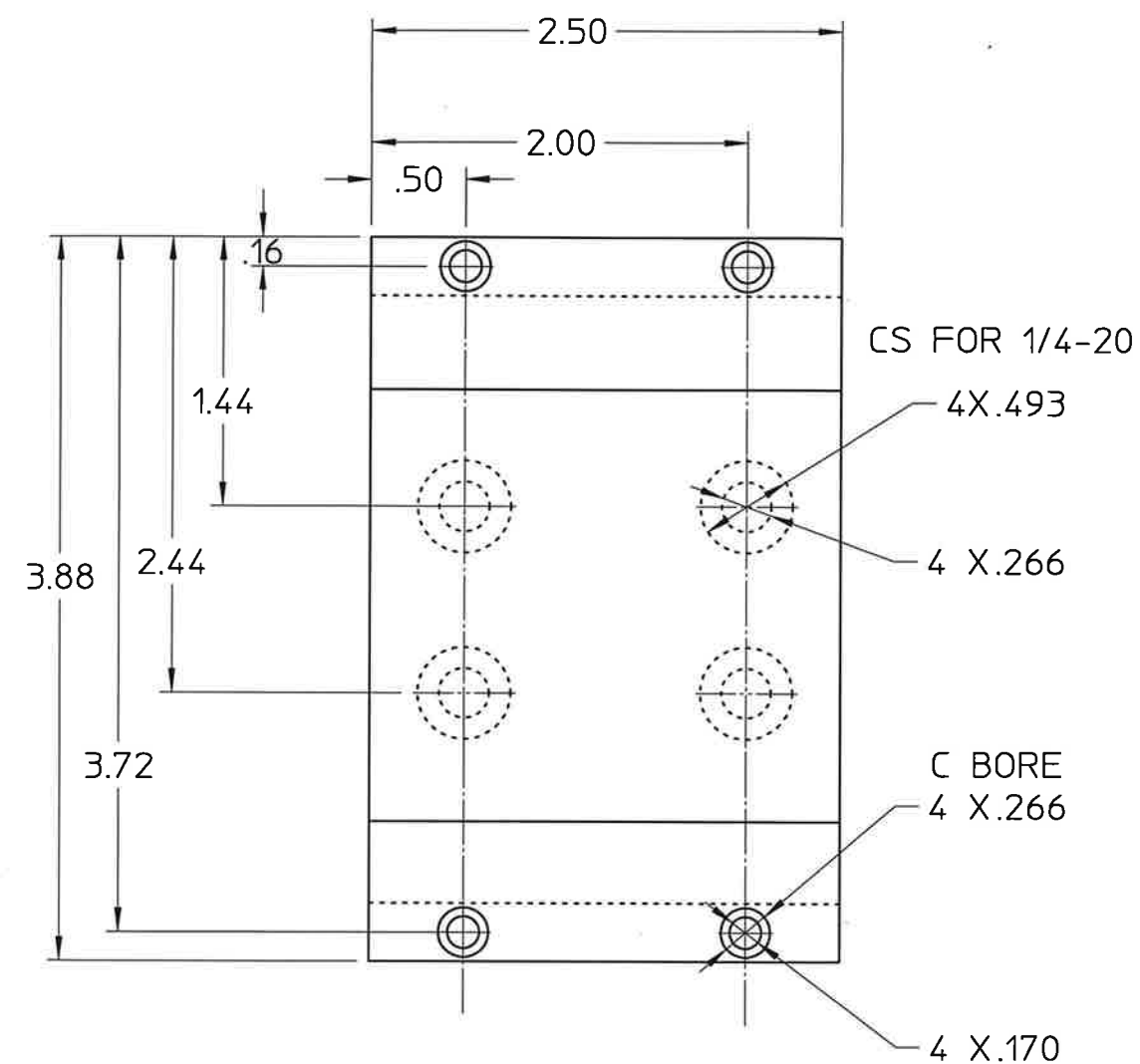
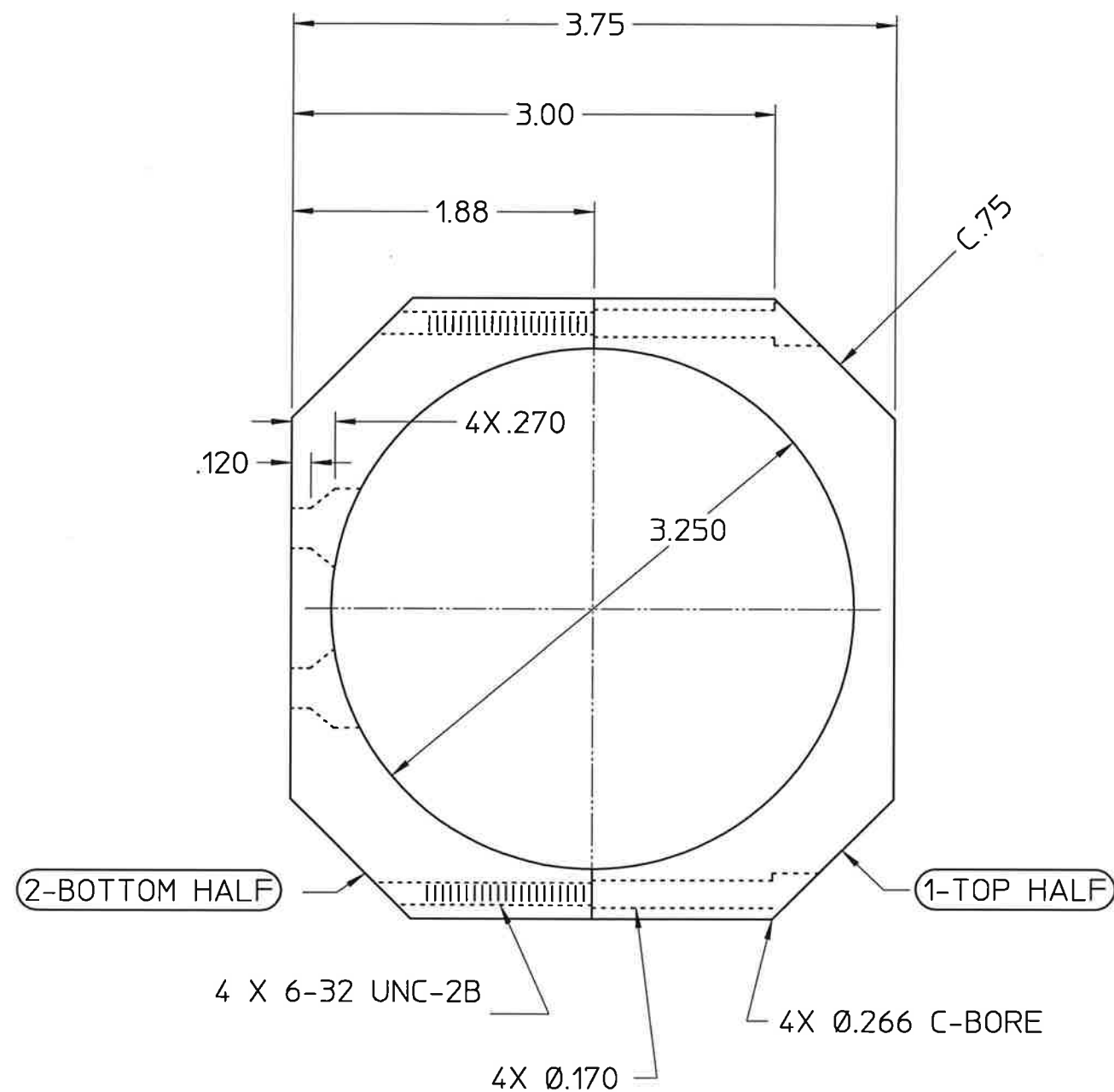
DWG NO

SH

REV

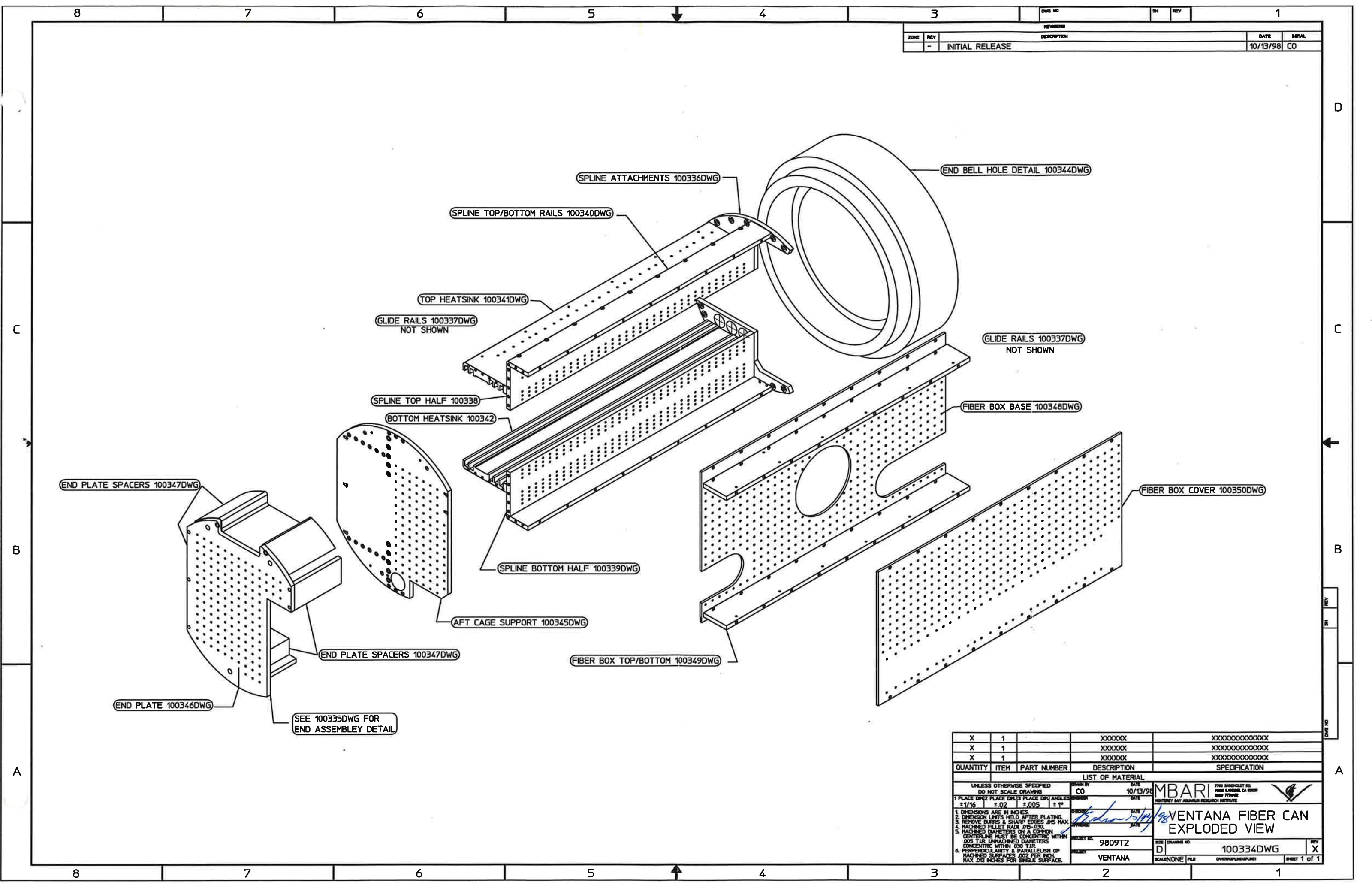
REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
	-	INITIAL RELEASE	6/3/98	



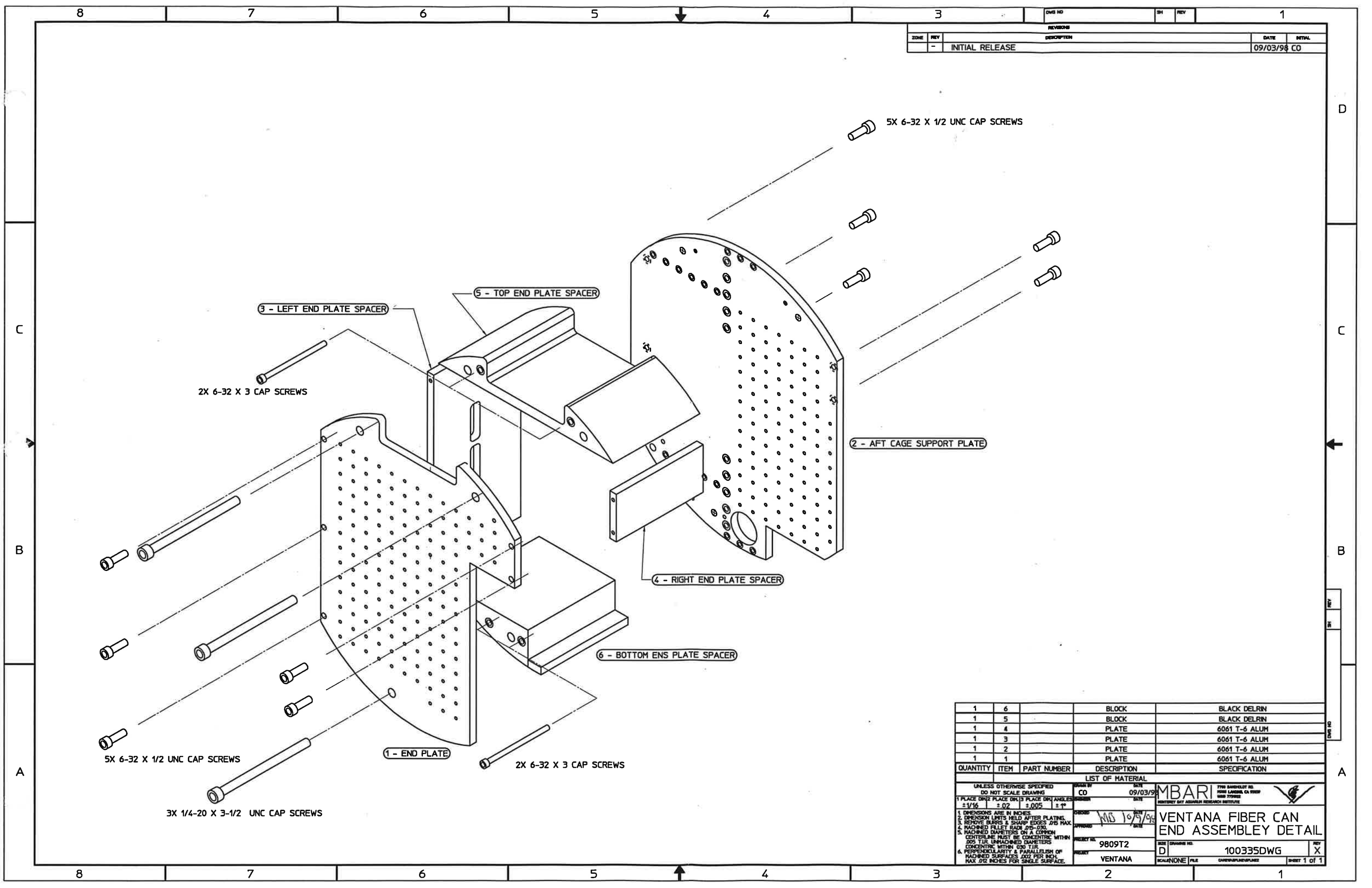
ORIGINAL

1	2		BOTTOM HALF	DELIN
1	1		TOP HALF	DELIN
QUANTITY	ITEM	PART NUMBER	DESCRIPTION	SPECIFICATION
LIST OF MATERIAL				
UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING				
1 PLACE DIM 1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ± 1°	
1. DIMENSIONS ARE IN INCHES.			DATE	06/94/98
2. DIMENSION LIMITS HELD AFTER PLATING.			ENGINEER	CO
3. REMOVE BURRS & SHARP EDGES .015 MAX.			CHECKED	DATE
4. MACHINED FILLET RADII .015-.030.			APPROVED	DATE
5. MACHINED DIAMETERS ON A COMMON CENTERLINE MUST BE CONCENTRIC WITHIN .005 T.I.R. UNMACHINED DIAMETERS CONCENTRIC WITHIN .030 T.I.R.			PROJECT NO.	
6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.			PROJECT	VENTANA
			SIZE	DRAWING NO. B 100197DWG
			SCALE	NONE
			FILE	C:\NEW\VENTANA\PTINGITE
			SHEET	1 of 1



REV		DATE		INITIAL	
1	INITIAL RELEASE	10/13/98	CO		

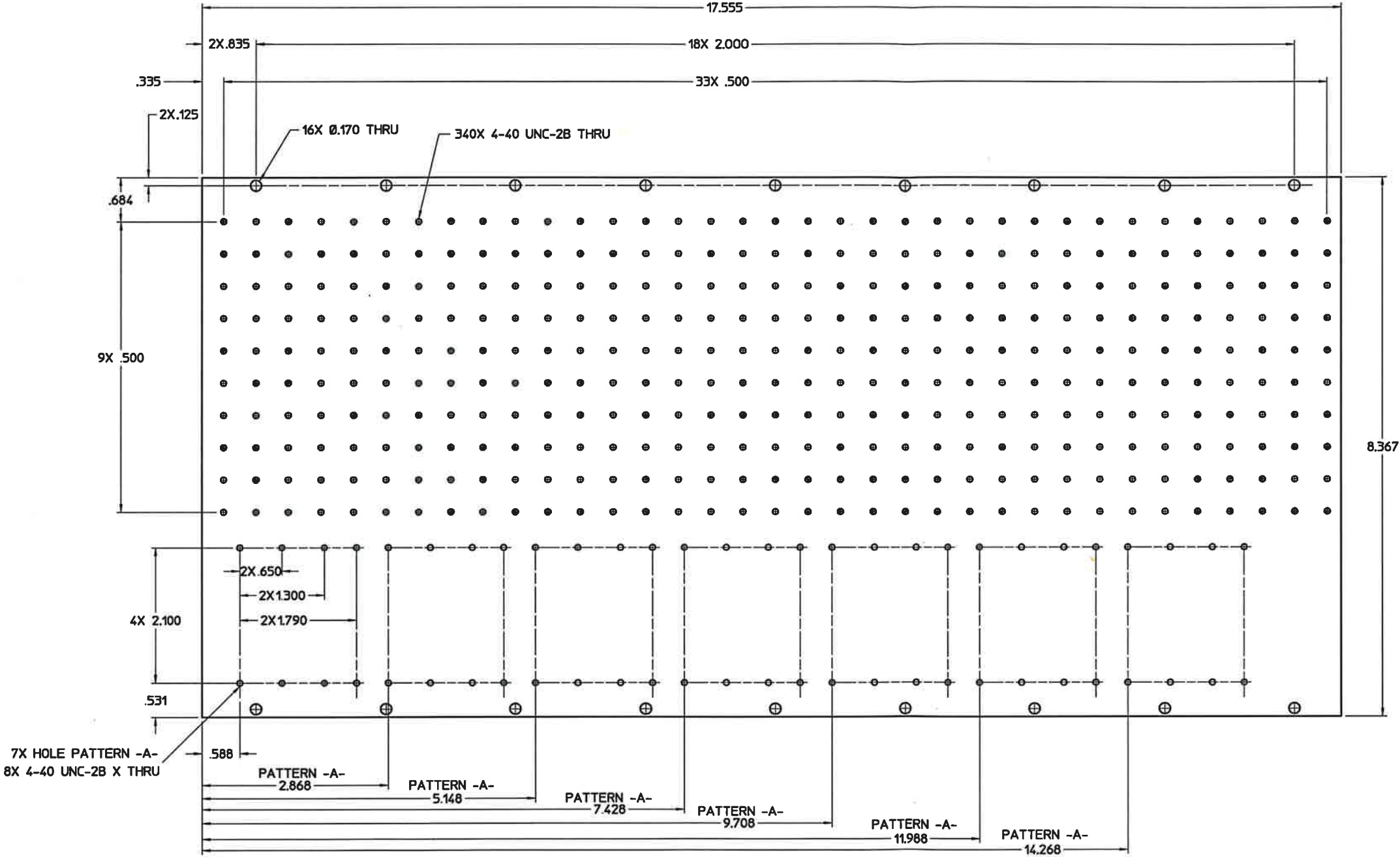
QUANTITY	ITEM	PART NUMBER	DESCRIPTION	SPECIFICATION
1		100346DWG	END PLATE	
1		100347DWG	END PLATE SPACERS	
1		100348DWG	FIBER BOX BASE	
1		100349DWG	FIBER BOX TOP/BOTTOM	
1		100350DWG	FIBER BOX COVER	
1		100351DWG	FIBER BOX	
1		100352DWG	FIBER BOX	
1		100353DWG	FIBER BOX	
1		100354DWG	FIBER BOX	
1		100355DWG	FIBER BOX	
1		100356DWG	FIBER BOX	
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1		100495DWG	FIBER BOX	
1		100496DWG	FIBER BOX	
1		100497DWG	FIBER BOX	
1		100498DWG	FIBER BOX	
1		100499DWG	FIBER BOX	
1		100500DWG	FIBER BOX	



REVISIONS		DATE	INITIAL
ZONE	REV	DESCRIPTION	
-	-	INITIAL RELEASE	09/03/98 CO

1	6	BLOCK	BLACK DELRIN	
1	5	BLOCK	BLACK DELRIN	
1	4	PLATE	6061 T-6 ALUM	
1	3	PLATE	6061 T-6 ALUM	
1	2	PLATE	6061 T-6 ALUM	
1	1	PLATE	6061 T-6 ALUM	
QUANTITY	ITEM	PART NUMBER	DESCRIPTION	SPECIFICATION
LIST OF MATERIAL				
UNLESS OTHERWISE SPECIFIED				
DO NOT SCALE DRAWING				
1. PLACE DIM 1/2 PLACE DIM 3 PLACE DIM 4 ANGLES				
±1/16 ±.02 ±.005 ±.01				
1. DIMENSIONS ARE IN INCHES				
2. DIMENSION UNITS HELD AFTER PLATING				
3. REMOVE BURRS & SHARP EDGES .015 MAX				
4. MACHINED FILLET RADI .015-.030				
5. MACHINED DIAMETERS ON A COMMON CENTERLINE MUST BE CONCENTRIC WITHIN .005 TIR UNMACHINED DIAMETERS CONCENTRIC WITHIN .030 TIR				
6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH MAX .012 INCHES FOR SINGLE SURFACE				
DRAWN BY		DATE	09/03/98	
CO		DATE	09/03/98	
CHECKED		DATE	10/5/98	
APPROVED		DATE		
PROJECT NO.		9809T2		
PROJECT		VENTANA		
DRAWING NO.		D	100335DWG	
SCALE		NONE	FILE	
SHEET		1	1	

REVISED		DATE	INITIAL
ZONE	REV	DESCRIPTION	
-	-	INITIAL RELEASE	10/13/98 CO



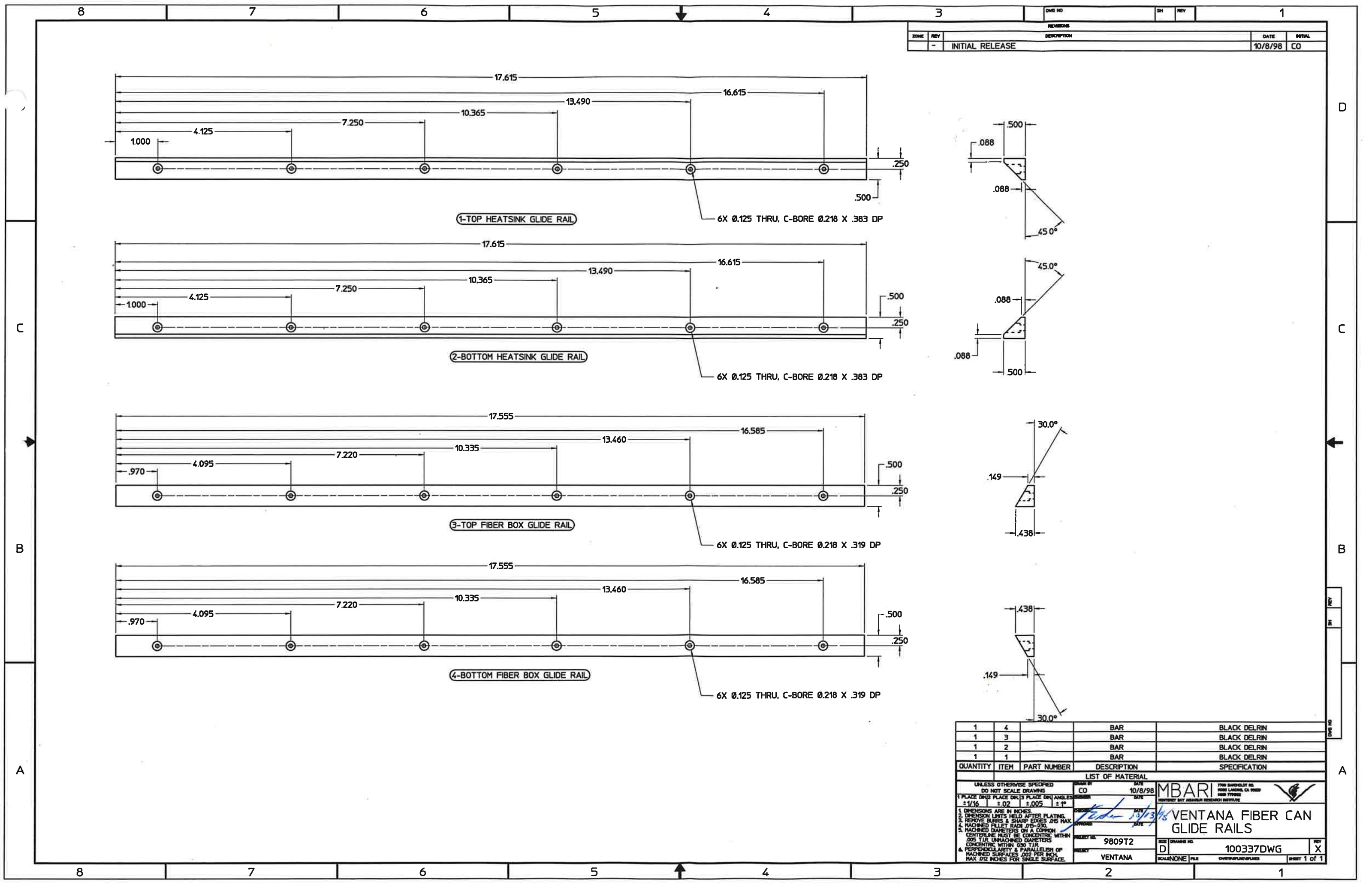
1-FIBER BOX COVER

ANODIZE PER MIL-A-8625 CLASS IIB TYPE 2.

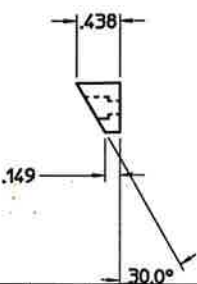
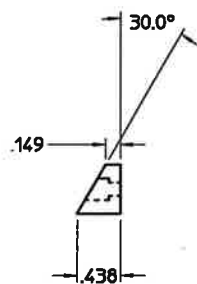
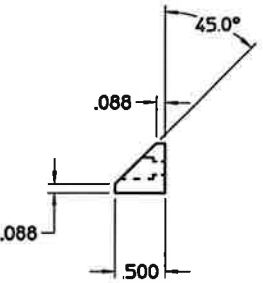
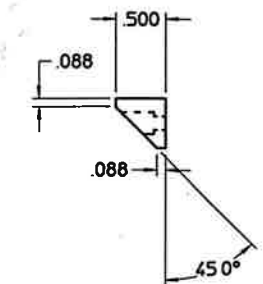
X	1	XXXXXX	XXXXXXXXXXXXXX
X	1	XXXXXX	XXXXXXXXXXXXXX
1	1	PLATE	6061 T-6 .125 THICK
QUANTITY	ITEM	PART NUMBER	SPECIFICATION
LIST OF MATERIAL			
UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING			
1	PLACE DRILL PLATE OR 13 PLACE DRILL ANGLE	DATE	10/12/98
±1/16	±.02	±.005	±.01
1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LINES FIELD AFTER PLATING. 3. REMOVE BURRS & SHARP EDGES .015 MAX. 4. MACHINED FILLET RADI .015-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE MUST BE CONCENTRIC WITHIN .005 TIR UNMACHINED DIAMETERS CONCENTRIC WITHIN .030 TIR. 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH MAX .012 INCHES FOR SINGLE SURFACE.			
DRAWN BY		DATE	10/12/98
CHECKED BY		DATE	10/14/98
PROJECT NO.		9809T2	
PROJECT		VENTANA	
SCALE		NONE	
DRAWING NO.		100350DWG	
SHEET		1 OF 1	

X	1		XXXXXX		XXXXXXXXXXXXXX
X	1		XXXXXX		XXXXXXXXXXXXXX
1	1		PLATE		6061 T-6 125 THICK
QUANTITY	ITEM	PART NUMBER	DESCRIPTION		SPECIFICATION

LIST OF MATERIAL					
UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING		QUANTITY	DATE	 7780 SANDHOLET RD. BERKELEY, CA 94709 TEL: 415/871-7700 FAX: 415/871-7701 HIGHTHURY BAY AQUARIUM RESEARCH INSTITUTE	
1 PLATE DIN2 PLATE DR13 PLATE DR14 ANGLE		CO	10/9/98	 VENTANA FIBER CAN FIBER BOX BASE	
±1/16 ±.02 ±.005 ±°		DATE	DATE		
1 DIMENSIONS ARE IN INCHES.		DATE	DATE		
2. DIMENSION LIMITS HELD AFTER PLATING.		9809T2		SIZE DRAWING NO. 100348DWG	
3. REMOVE BURRS & SHARP EDGES .015 MAX		VENTANA		SCALE NONE FILE OVERSHIMPLIFIED	
4. MACHINED FILLET RADI .015-.030				SHEET 1 of 1	
5. MACHINED DIAMETERS ON A COMMON CENTERLINE MUST BE CONCENTRIC WITHIN .005 TIR UNMACHINED DIAMETERS CONCENTRIC WITHIN .030 TIR					
6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH MAX .012 INCHES FOR SINGLE SURFACE.					

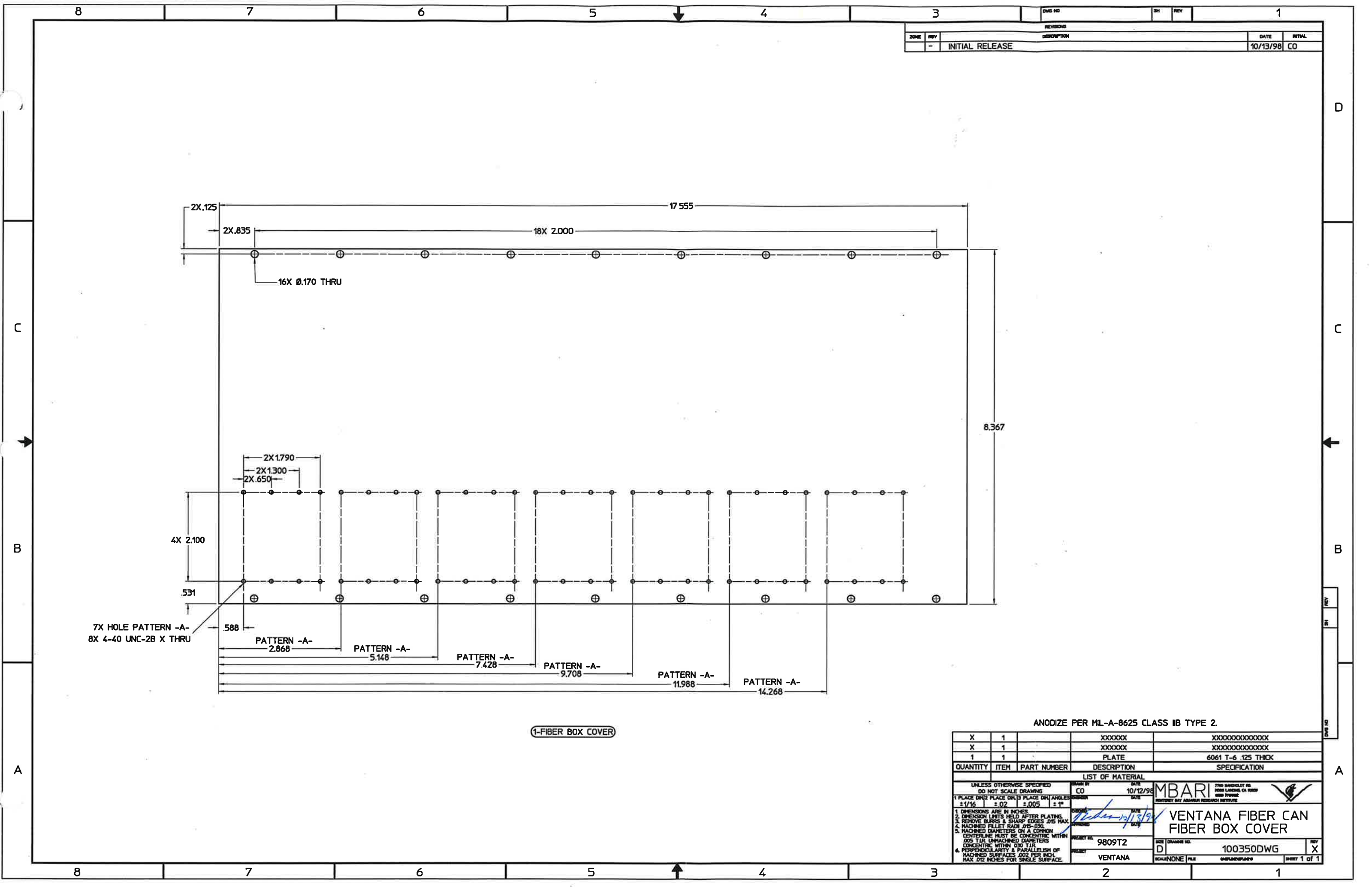


ZONE		REV	DESCRIPTION	DATE	INITIAL
-		-	INITIAL RELEASE	10/8/98	CO



1	4	BAR	BLACK DELRIN	
1	3	BAR	BLACK DELRIN	
1	2	BAR	BLACK DELRIN	
1	1	BAR	BLACK DELRIN	
QUANTITY	ITEM	PART NUMBER	DESCRIPTION	SPECIFICATION
LIST OF MATERIAL				
UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING				
1. PLACE DRILL PLUG OR 1/8" PLUG IN ANGLES ±1/16" ±.02" ±.005" ±.0"		DRAWN BY CO		DATE 10/8/98
2. DIMENSION LINES HELD AFTER PLATING. REMOVE BURRS & SHARP EDGES .015 MAX.		CHECKED BY <i>[Signature]</i>		DATE 10/13/98
3. MACHINED FILLET RADIUS .015-.020.		APPROVED BY		DATE
4. MACHINED DIAMETERS ON A COMMON CENTERLINE MUST BE CONCENTRIC WITHIN .005 T.I.R. UNMACHINED DIAMETERS CONCENTRIC WITHIN .030 T.I.R.		PROJECT NO. 9809T2		DATE
5. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH MAX. .012 INCHES FOR SINGLE SURFACE.		PROJECT VENTANA		DATE
		SCALE NONE		FILE
		OVERSAMPLING NONE		SHEET 1 of 1
		MBARI		7700 SANDHILL RD. 8000 LAKING, CA 90009 8000 777792
		VENTANA FIBER CAN GLIDE RAILS		
		RPT NO. 100337DWG		REV X

MBARI
MONTEREY BAY AQUARIUM RESEARCH INSTITUTE
VENTANA FIBER CAN
GLIDE RAILS

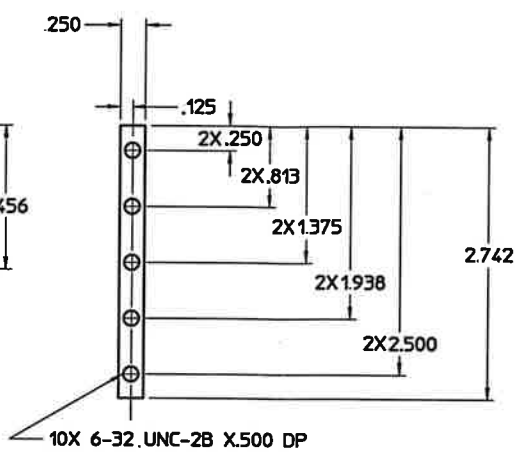
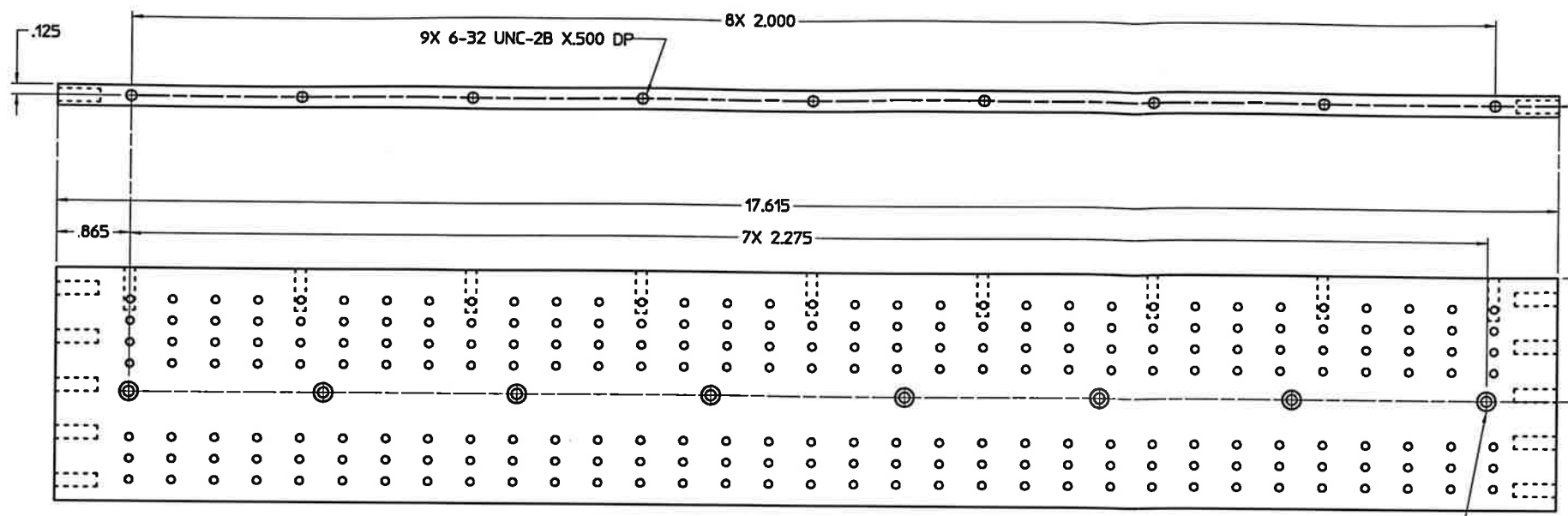


REVISIONS		DATE	INITIAL
ZONE	REV		
-	-	10/13/98	CO

ANODIZE PER MIL-A-8625 CLASS IIB TYPE 2.			
X	1	XXXXXX	XXXXXXXXXXXXXX
X	1	XXXXXX	XXXXXXXXXXXXXX
1	1	PLATE	6061 T-6 .125 THICK
QUANTITY	ITEM	PART NUMBER	SPECIFICATION
LIST OF MATERIAL			
UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING			
1. PLACE DRZ PLAGE DRZ IS PLACE DRZ ANGLES ±1/16 ±.02 ±.005 ±.1°			
2. DIMENSIONS ARE IN INCHES.			
3. DIMENSION LIMITS HELD AFTER PLATING.			
4. REMOVE BURRS & SHARP EDGES .015 MAX.			
5. MACHINED FILLET RADII .015-.030.			
6. MACHINED DIAMETERS ON A COMMON CENTERLINE MUST BE CONCENTRIC WITHIN .005 T.I.R. UNMACHINED DIAMETERS CONCENTRIC WITHIN .030 T.I.R.			
7. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH MAX .012 INCHES FOR SINGLE SURFACE.			
DATE	10/12/98	BY	CO
DATE	10/13/98	BY	CO
PROJECT NO.	9809T2	SCALE	NONE
PROJECT	VENTANA	FILE	CANPLATEPLATE
SIZE	D	CHANGES	100350DWG
REV	X	SHEET	1 OF 1

MBARI
VENTANA FIBER CAN
FIBER BOX COVER

REV		DATE		INITIAL	
1	INITIAL RELEASE	10/02/98	CO		

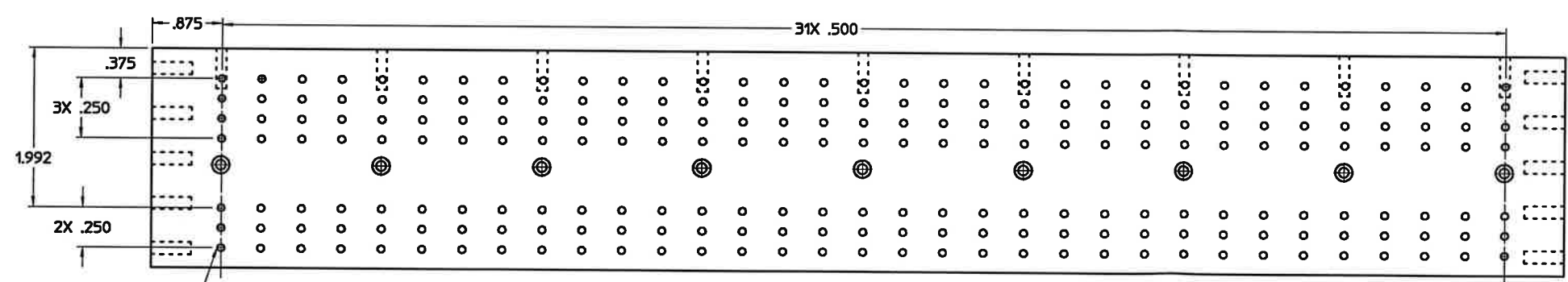


SEE DETAIL FOR HOLE PATTERN DIMS

8X .136 THRU, C-BORE Ø 7/32 X.120 DP

(1-SPLINE TOP HALF)

HEAD END →



231X 4-40 UNC-2B THRU

HOLE PATTERN DETAIL

ANODIZE GOLD PER MIL-A-8625 F TYPE IIB CLASS 2.

X	1	XXXXXX	XXXXXXXXXXXXXX
X	1	XXXXXX	XXXXXXXXXXXXXX
1	1	PLATE	6061 T-6 ALUM
QUANTITY	ITEM	PART NUMBER	SPECIFICATION

UNLESS OTHERWISE SPECIFIED		DATE	
DO NOT SCALE DRAWING		10/02/98	
1. PLACE DRIP PLATE DRIP PLATE DRIP PLATE	±1/16	±.02	±.005
1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING 3. REMOVE BURRS & SHARP EDGES .015 MAX 4. MACHINED FILLET RADIUS .015-.030 5. MACHINED DIAMETERS ON A COMMON CENTERLINE MUST BE CONCENTRIC WITHIN .005 T.I.R. UNMACHINED DIAMETERS CONCENTRIC WITHIN .030 T.I.R. 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH MAX .012 INCHES FOR SINGLE SURFACE.			

CO
10/02/98
DATE

MBARI
MONTEREY BAY AQUARIUM RESEARCH INSTITUTE

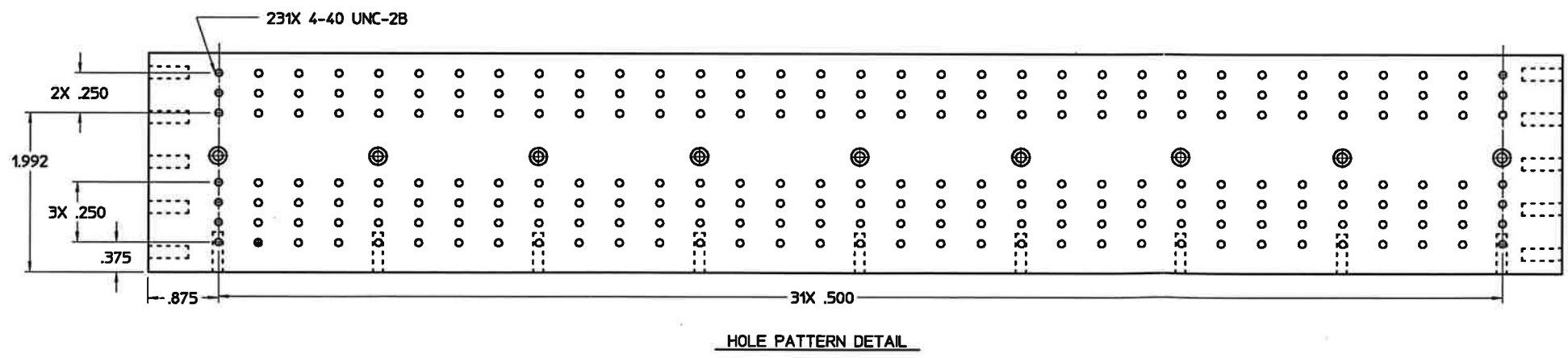
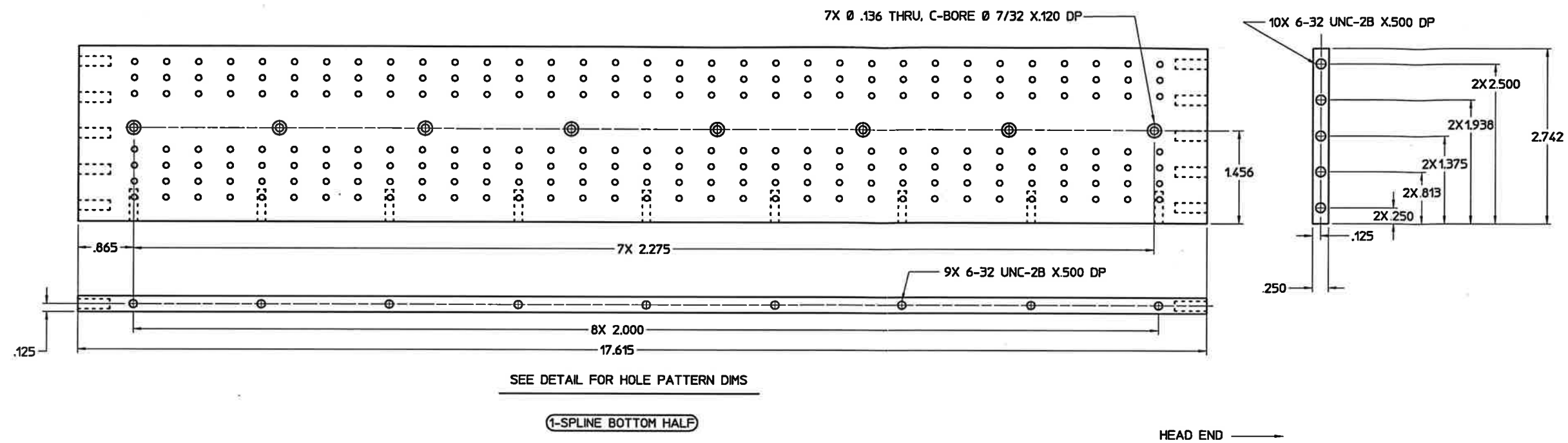
VENTANA FIBER CAN
SPLINE TOP HALF

9809T2	100338DWG
VENTANA	

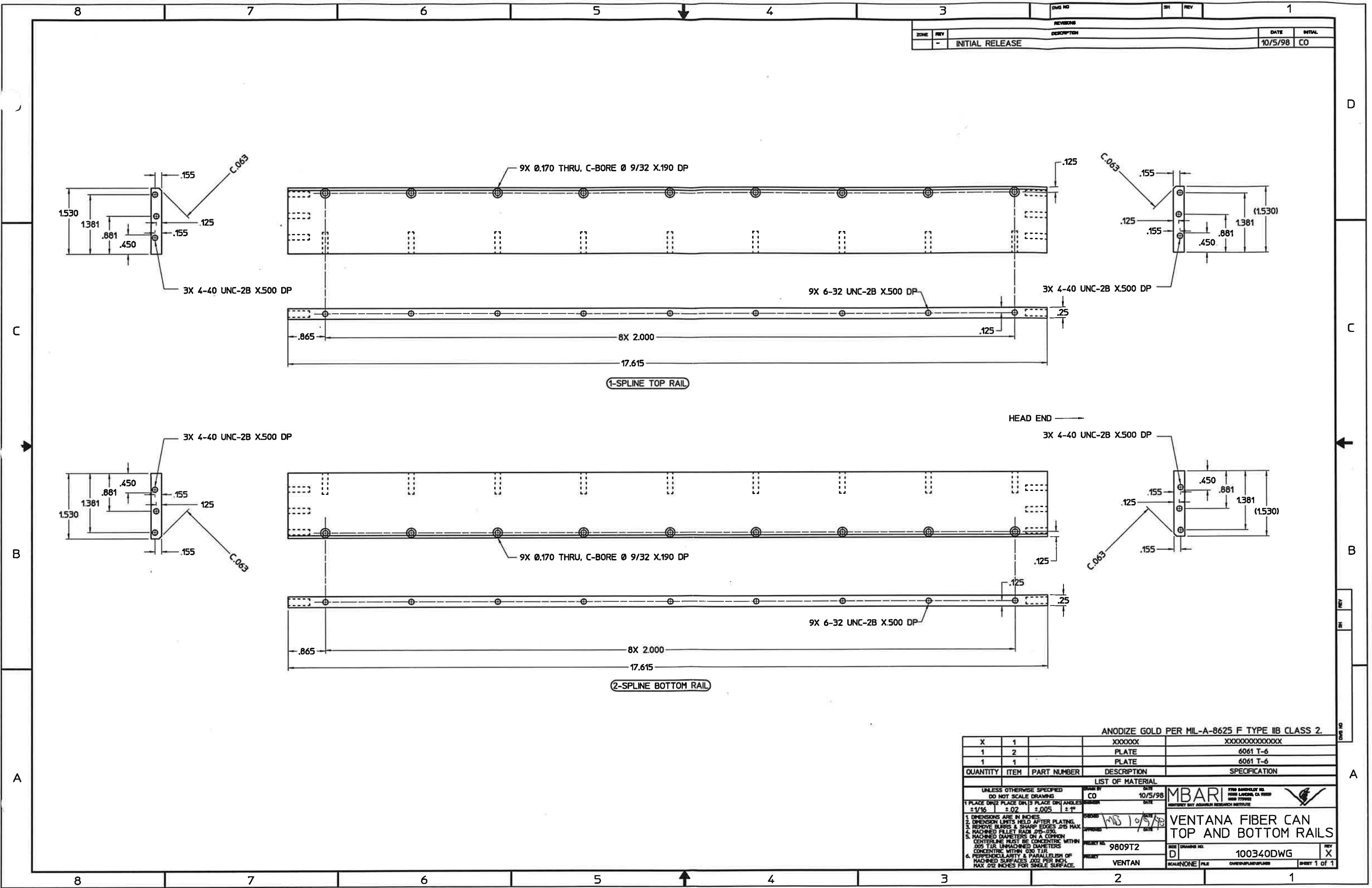
D
SCALE NONE
FILE

X
OVERSAMPLING
SHEET 1 of 1

REVISIONS		DATE	INITIAL
ZONE	REV		
-	INITIAL RELEASE	10/02/98	CO



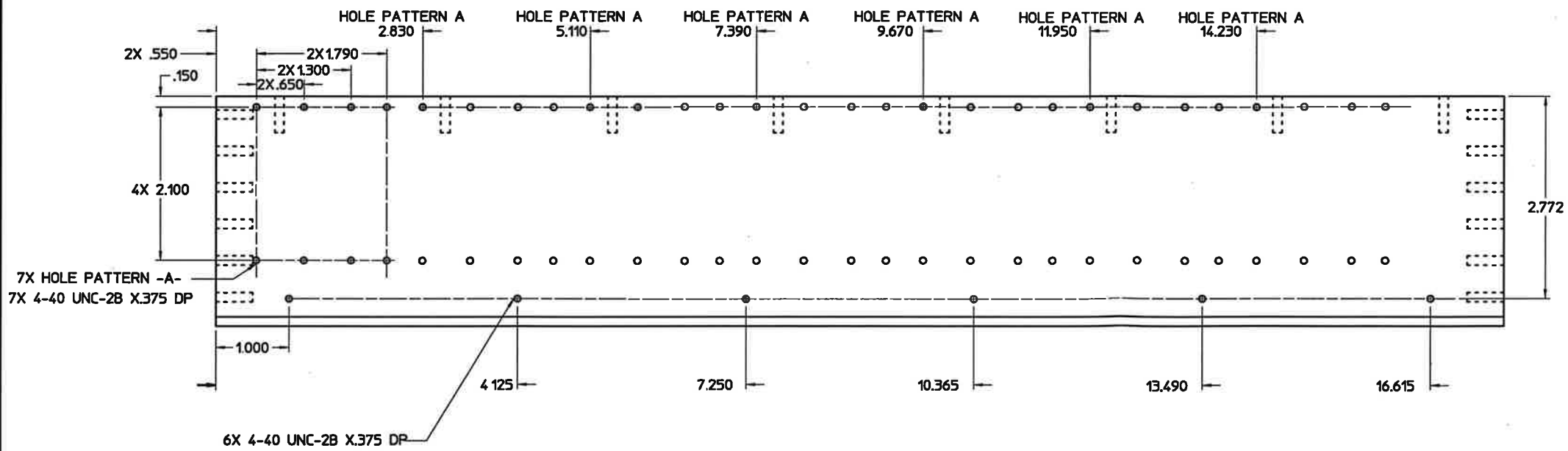
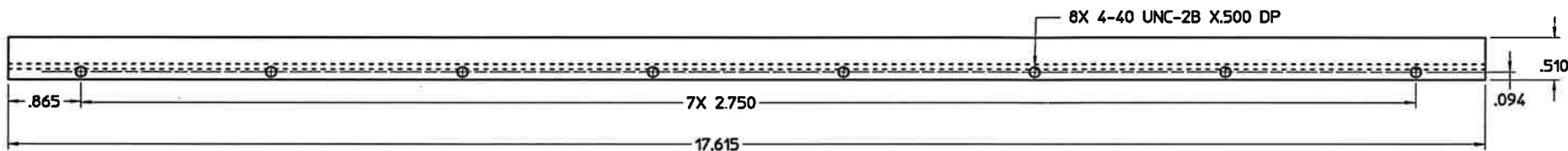
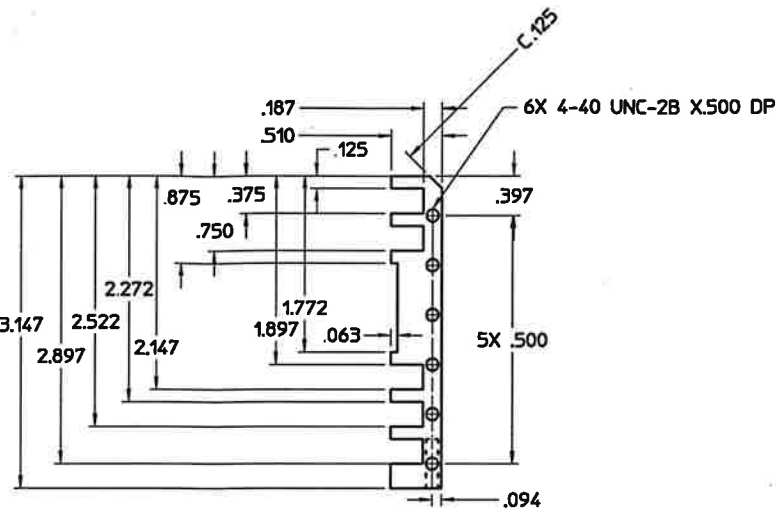
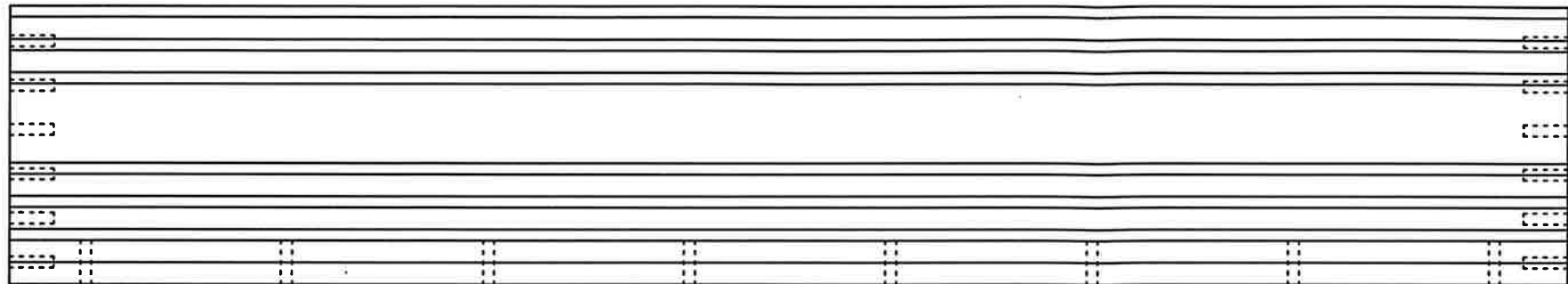
ANODIZE GOLD PER MIL-A-8625 F TYPE IIB CLASS 2.			
X	1	XXXXXX	XXXXXXXXXXXXXXXX
X	1	XXXXXX	XXXXXXXXXXXXXXXX
1	1	PLATE	6061 T-6 ALUM
QUANTITY	ITEM	PART NUMBER	SPECIFICATION
LIST OF MATERIAL			
UNLESS OTHERWISE SPECIFIED			
DO NOT SCALE DRAWING			
1 PLACE DR12	2 PLACE DR13	3 PLACE DR14	4 ANGLES
±.1/16	±.02	±.005	±.1°
1. DIMENSIONS ARE IN INCHES.			
2. DIMENSION UNITS HELD AFTER PLATING.			
3. REMOVE BURRS & SHARP EDGES .015 MAX.			
4. MACHINED FILLET RADI .015-.030.			
5. MACHINED DIAMETERS ON A COMMON CENTERLINE MUST BE CONCENTRIC WITHIN .005 T.I.R. UNMACHINED DIAMETERS CONCENTRIC WITHIN .030 T.I.R.			
6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.			
DATE	10/02/98	DATE	10/02/98
DESIGNED BY	CO	DATE	10/02/98
CHECKED BY	MB	DATE	10/02/98
PROJECT NO.	9809T2	DATE	10/02/98
REVIEW	VENTANA	DATE	10/02/98
SCALE	NONE	FILE	DATE
SIZE	D	CHANGING NO.	100339DWG
REVISION	X	DATE	10/02/98
VENTANA FIBER CAN SPLINE BOTTOM HALF			
SHEET 1 OF 1			



REVISIONS		DATE	INITIAL
ZONE	REV		
-	-	10/5/98	CO

ANODIZE GOLD PER MIL-A-8625 F TYPE IIB CLASS 2.			
X	1	XXXXXX	XXXXXXXXXXXXXX
1	2	PLATE	6061 T-6
1	1	PLATE	6061 T-6
QUANTITY	ITEM	PART NUMBER	SPECIFICATION
LIST OF MATERIAL			
UNLESS OTHERWISE SPECIFIED			
DO NOT SCALE DRAWING			
1	PLACE DRILL PLUG OR 1/8" PLUG	DATE	10/5/98
±1/16	±.02	±.005	±1°
1. DIMENSIONS ARE IN INCHES.			
2. DIMENSION LIMITS HELD AFTER PLATING.			
3. REMOVE BURRS & SHARP EDGES .015 MAX.			
4. MACHINED FILLET RADIUS .015-.030.			
5. MACHINED DIAMETERS ON A COMMON CENTERLINE MUST BE CONCENTRIC WITHIN .005 TIR UNMACHINED DIAMETERS CONCENTRIC WITHIN .030 TIR.			
6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH MAX .012 INCHES FOR SINGLE SURFACE.			
DRAWN BY		DATE	10/5/98
CO		DATE	10/5/98
DESIGNED BY		DATE	10/5/98
APPROVED BY		DATE	10/5/98
PROJECT NO.		9809T2	
PROJECT		VENTANA	
DRAWING NO.		100340DWG	
SCALE		NONE	
SHEET		1 OF 1	

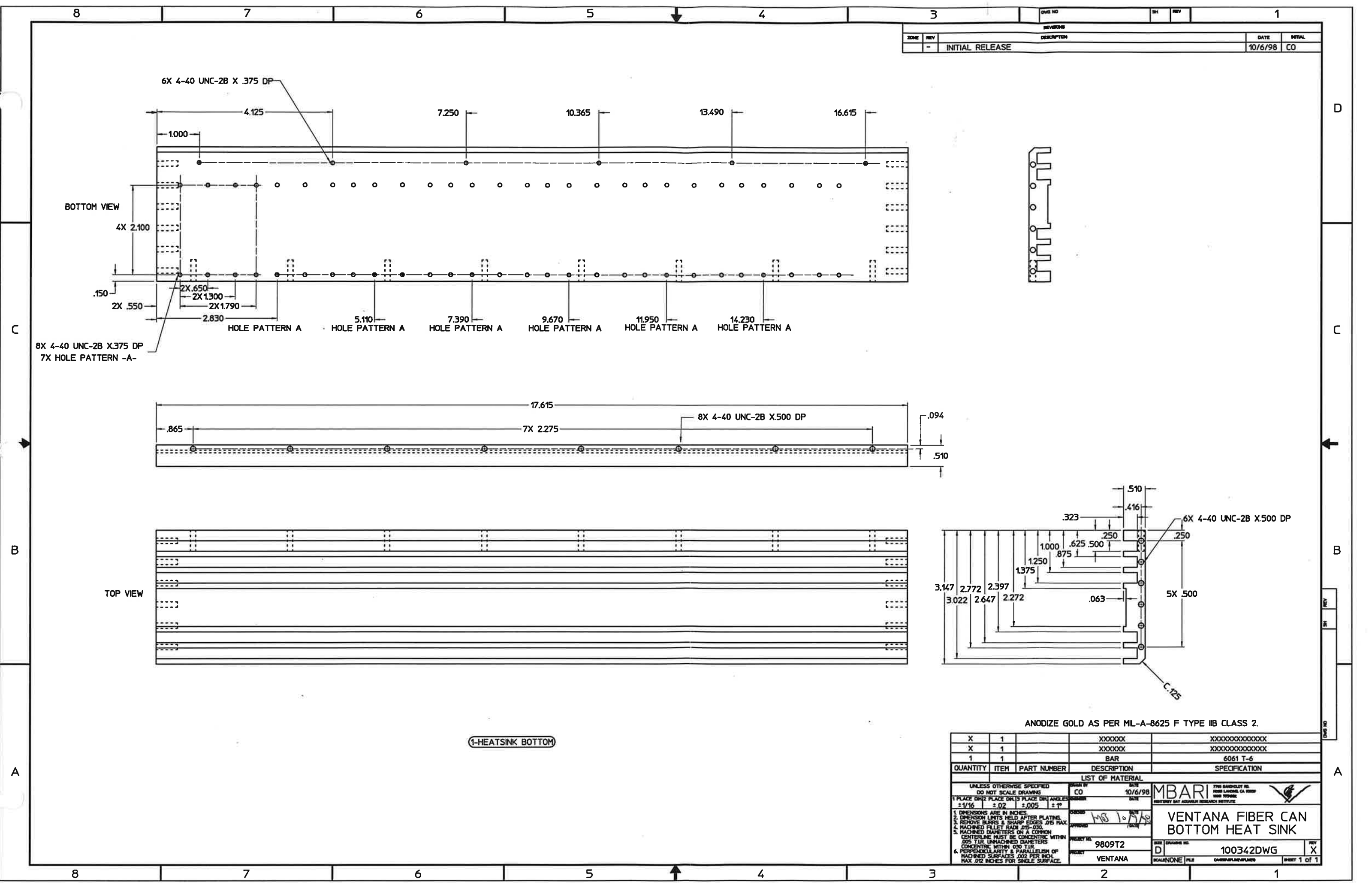
REVISIONS		DATE	INITIAL
ZONE	REV		
-	-	INITIAL RELEASE	10/6/98 CO



(1-HEATSINK TOP)

ANODIZE GOLD PER MIL-A-8625 F TYPEIIB CLASS 2.

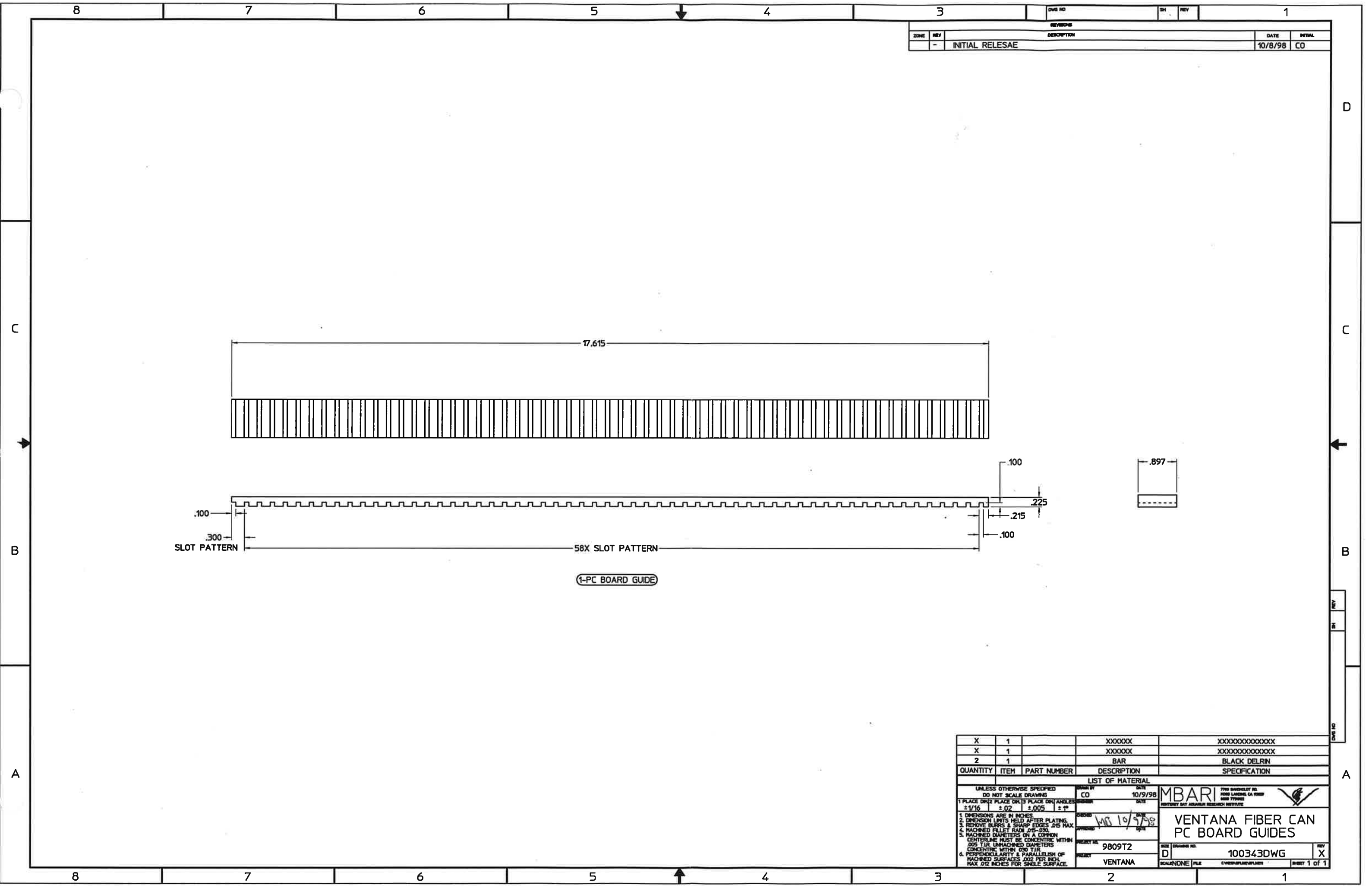
X	1	XXXXXX	XXXXXXXXXXXXXX
X	1	XXXXXX	XXXXXXXXXXXXXX
1	1	BAR	6061 T-6
QUANTITY	ITEM	PART NUMBER	SPECIFICATION
LIST OF MATERIAL			
UNLESS OTHERWISE SPECIFIED			
DO NOT SCALE DRAWING			
1 PLACE DRZ	2 PLACE DRZ	3 PLACE DRZ	4 ANGLES
±.1/16	±.02	±.005	±.1°
1. DIMENSIONS ARE IN INCHES			
2. DIMENSION UNITS HELD AFTER PLATING			
3. REMOVE BURRS & SHARP EDGES .015 MAX			
4. MACHINED FILLET RADI .015-.030			
5. MACHINED DIAMETERS ON A COMMON CENTERLINE MUST BE CONCENTRIC WITHIN .005 TIR UNMACHINED DIAMETERS CONCENTRIC WITHIN .030 TIR			
6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH MAX .012 INCHES FOR SINGLE SURFACE			
DATE	10/6/98	BY	MBARI
DATE	10/6/98	BY	MBARI
PROJECT NO.	9809T2	REV	X
PROJECT	VENTANA	SCALE	NONE
DRAWING NO.	100341DWG	CHECKED/PLACED	
SHEET 1 of 1			



REVISIONS		DATE	INITIAL
ZONE	REV		
-	-	10/6/98	CO

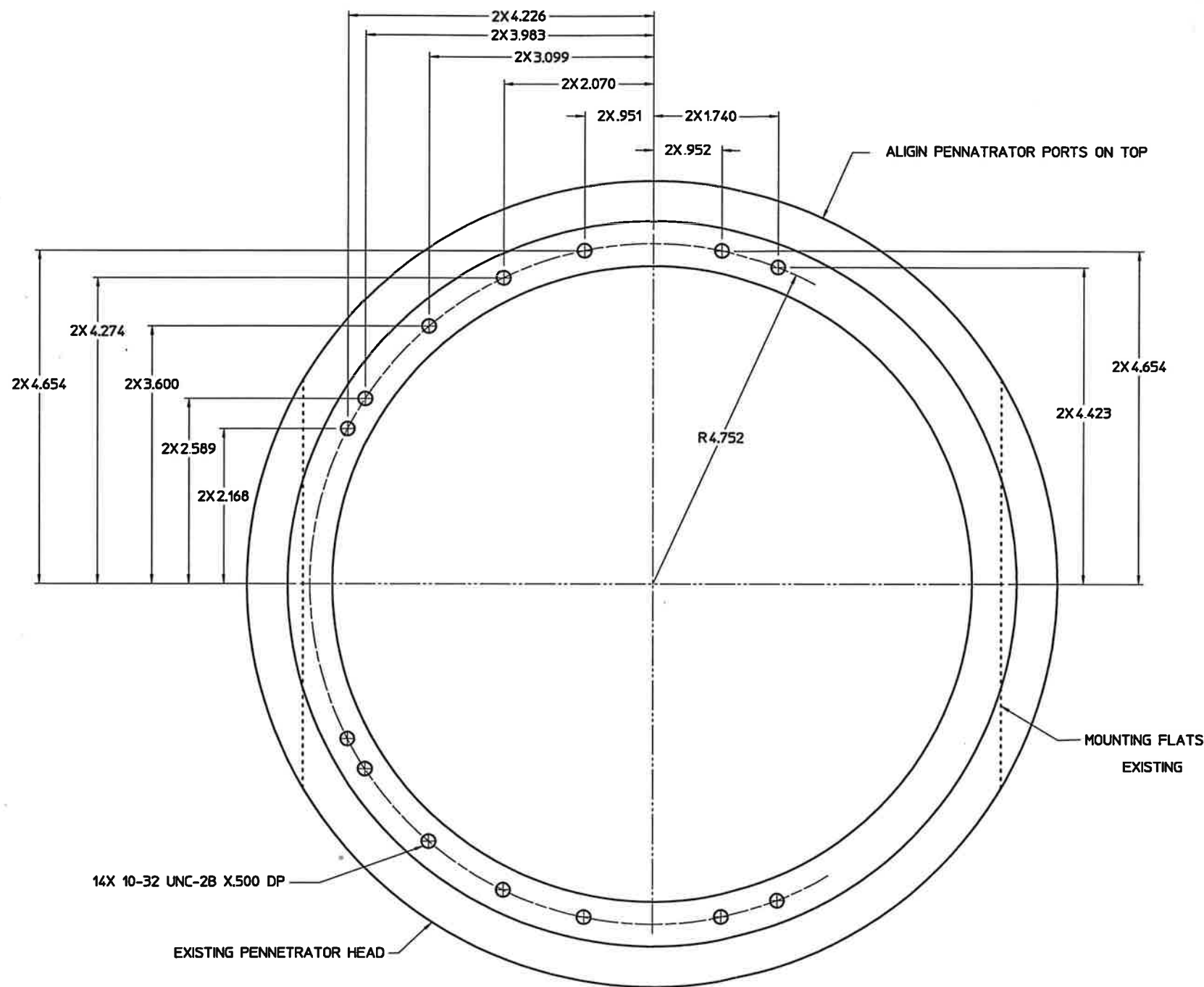
ANODIZE GOLD AS PER MIL-A-8625 F TYPE IIB CLASS 2.			
X	1	XXXXXX	XXXXXXXXXXXXXX
X	1	XXXXXX	XXXXXXXXXXXXXX
1	1	BAR	6061 T-6
QUANTITY	ITEM	PART NUMBER	SPECIFICATION
LIST OF MATERIAL			
UNLESS OTHERWISE SPECIFIED			
DO NOT SCALE DRAWING			
1	PLACE DRILL PLACE DRILL	DATE	10/6/98
±.16	±.02	±.005	±.1°
1. DIMENSIONS ARE IN INCHES.			
2. DIMENSION LIMITS HELD AFTER PLATING.			
3. REMOVE BURRS & SHARP EDGES .015 MAX.			
4. MACHINED FLUET RADI .015-.030.			
5. MACHINED DIAMETERS ON A COMMON CENTERLINE MUST BE CONCENTRIC WITHIN .005 TIR UNMACHINED DIAMETERS CONCENTRIC WITHIN .030 TIR.			
6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.			
DESIGNED BY		DATE	10/6/98
CO		DATE	10/6/98
PROJECT NO.		9809T2	
PROJECT		VENTANA	
SCALE		NONE	
FILE		OVERPLANE/PLANE	
SHEET 1 OF 1			

MBARI
VENTANA FIBER CAN
BOTTOM HEAT SINK



REVISIONS		DATE	INITIAL
ZONE	REV	DESCRIPTION	
-	-	INITIAL RELESAE	10/8/98 CO

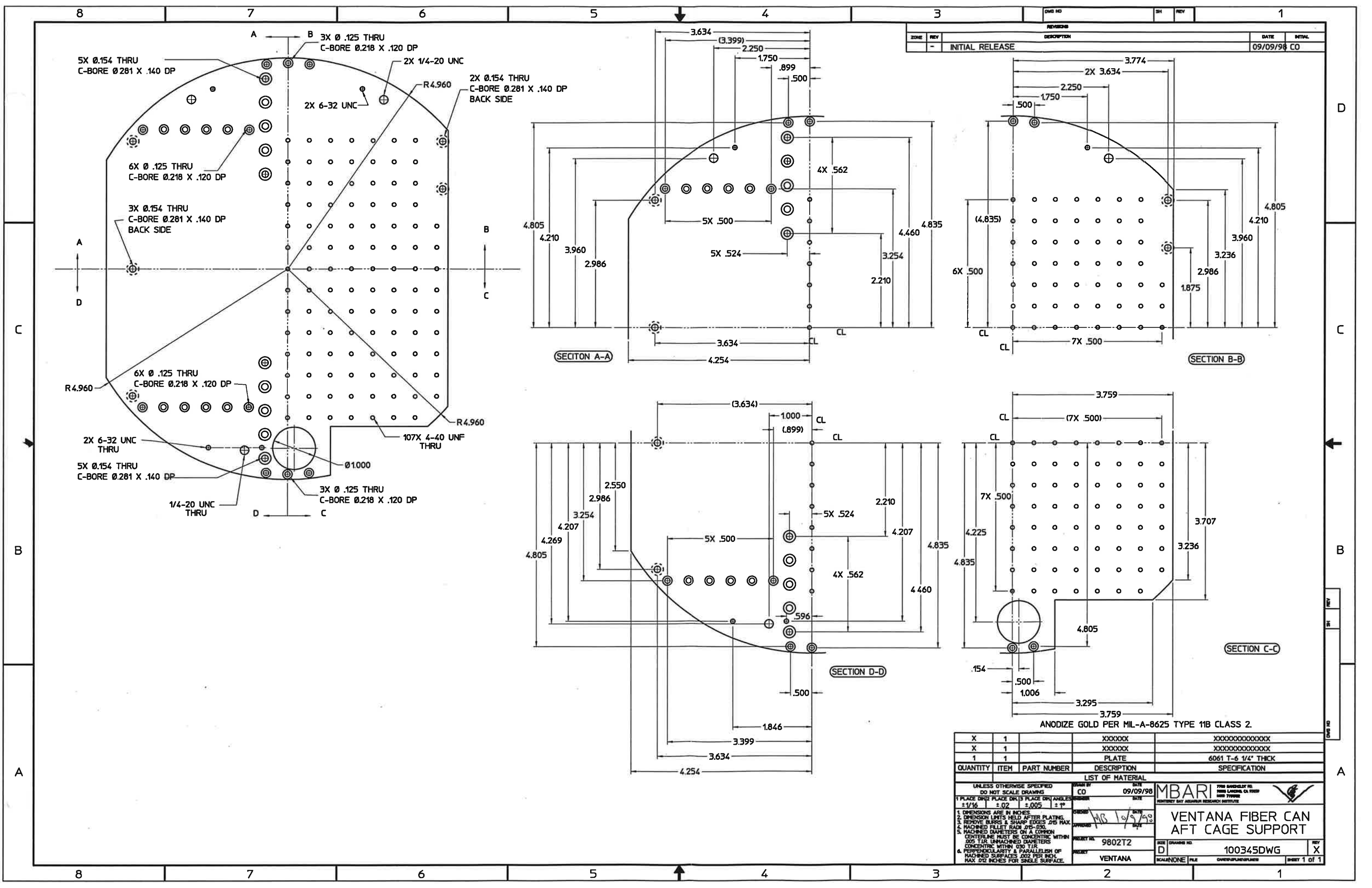
X	1	XXXXXX	XXXXXXXXXXXXXX
X	1	XXXXXX	XXXXXXXXXXXXXX
2	1	BAR	BLACK DELRIN
QUANTITY	ITEM	PART NUMBER	DESCRIPTION
LIST OF MATERIAL			
UNLESS OTHERWISE SPECIFIED			
DO NOT SCALE DRAWING			
1	PLACE DRILL	DATE	10/9/98
2	PLACE DRILL	DATE	10/9/98
3	PLACE DRILL	DATE	10/9/98
4	PLACE DRILL	DATE	10/9/98
5	PLACE DRILL	DATE	10/9/98
6	PLACE DRILL	DATE	10/9/98
7	PLACE DRILL	DATE	10/9/98
8	PLACE DRILL	DATE	10/9/98
9	PLACE DRILL	DATE	10/9/98
10	PLACE DRILL	DATE	10/9/98
11	PLACE DRILL	DATE	10/9/98
12	PLACE DRILL	DATE	10/9/98
13	PLACE DRILL	DATE	10/9/98
14	PLACE DRILL	DATE	10/9/98
15	PLACE DRILL	DATE	10/9/98
16	PLACE DRILL	DATE	10/9/98
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18	PLACE DRILL	DATE	10/9/98
19	PLACE DRILL	DATE	10/9/98
20	PLACE DRILL	DATE	10/9/98
21	PLACE DRILL	DATE	10/9/98
22	PLACE DRILL	DATE	10/9/98
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24	PLACE DRILL	DATE	10/9/98
25	PLACE DRILL	DATE	10/9/98
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29	PLACE DRILL	DATE	10/9/98
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97	PLACE DRILL	DATE	10/9/98
98	PLACE DRILL	DATE	10/9/98
99	PLACE DRILL	DATE	10/9/98
100	PLACE DRILL	DATE	10/9/98



REVISIONS		DATE	INITIAL
ZONE	REV	DESCRIPTION	
-	-	INITIAL RELEASE	10/8/98 CO

THIS IS A MODIFICATION OF AN EXISTING PART, THE ORIGINAL DRAWING IS LOST

X	1	XXXXXX	XXXXXXXXXXXXXX
X	1	XXXXXX	XXXXXXXXXXXXXX
1	1	CAP	6061 T-6
QUANTITY	ITEM	PART NUMBER	SPECIFICATION
LIST OF MATERIAL			
UNLESS OTHERWISE SPECIFIED			
DO NOT SCALE DRAWING			
1 PLACE DR2 PLACE DR3 PLACE DR4	DR5 PLACE DR6	DR7 PLACE DR8	DR9 PLACE DR10
±.1/16	±.02	±.005	±.001
1. DIMENSIONS ARE IN INCHES.			
2. DIMENSION LIMITS HELD AFTER PLATING.			
3. REMOVE BURRS & SHARP EDGES .015 MAX.			
4. MACHINED FLLET RADI .015-.030.			
5. MACHINED DIAMETERS ON A COMMON CENTERLINE MUST BE CONCENTRIC WITHIN .005 T.I.R. UNMACHINED DIAMETERS CONCENTRIC WITHIN .030 T.I.R.			
6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.			
DRAWN BY		DATE	10/8/98
CO		DATE	10/8/98
CHECKED		DATE	10/19/98
APPROVED		DATE	
PROJECT NO.		9809T2	
PROJECT		VENTANA	
SIZE		DRAWING NO.	100344DWG
SCALE		NONE	
FILM		OVERSHOTS/PLATES	
SHEET		1 OF 1	



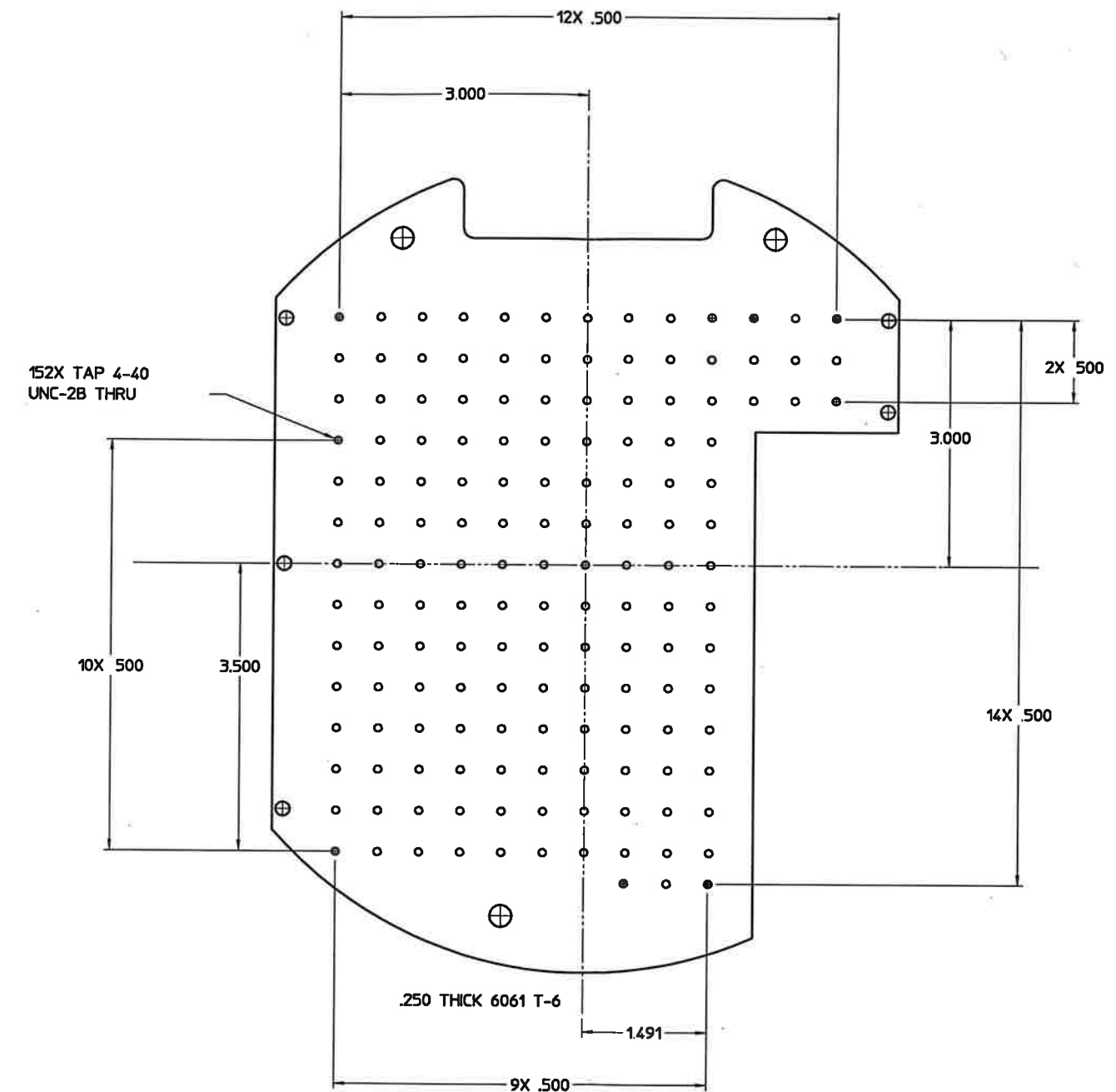
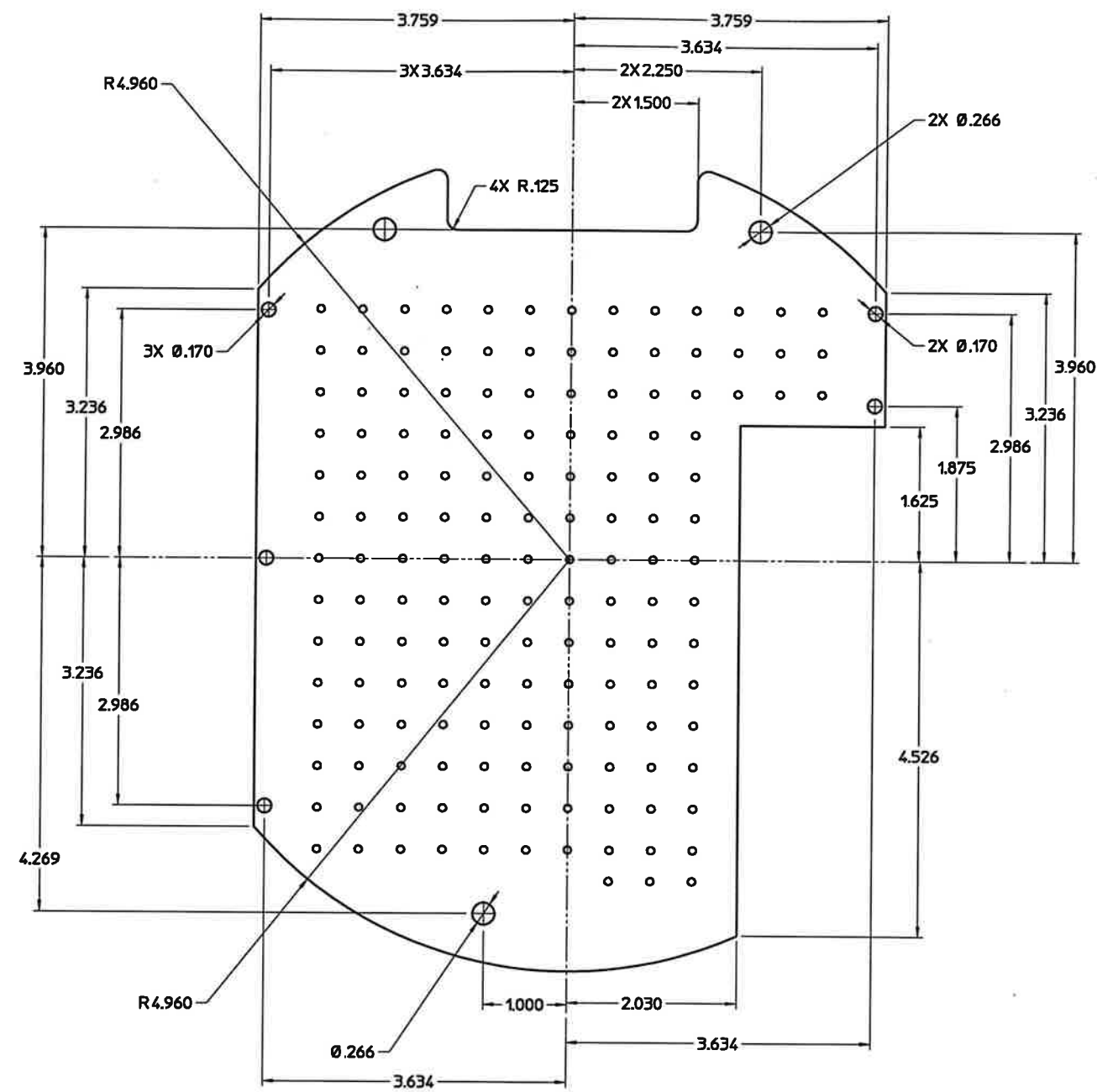
REVISIONS		DATE	INITIAL
ZONE	REV		
-	-	09/09/98	CO

ZONE	REV	DESCRIPTION	DATE	INITIAL
-	-	INITIAL RELEASE	09/09/98	CO

QUANTITY	ITEM	PART NUMBER	DESCRIPTION	SPECIFICATION
X	1		XXXXXX	XXXXXXXXXXXXXXXXXX
X	1		XXXXXX	XXXXXXXXXXXXXXXXXX
1	1		PLATE	6061 T-6 1/4" THICK

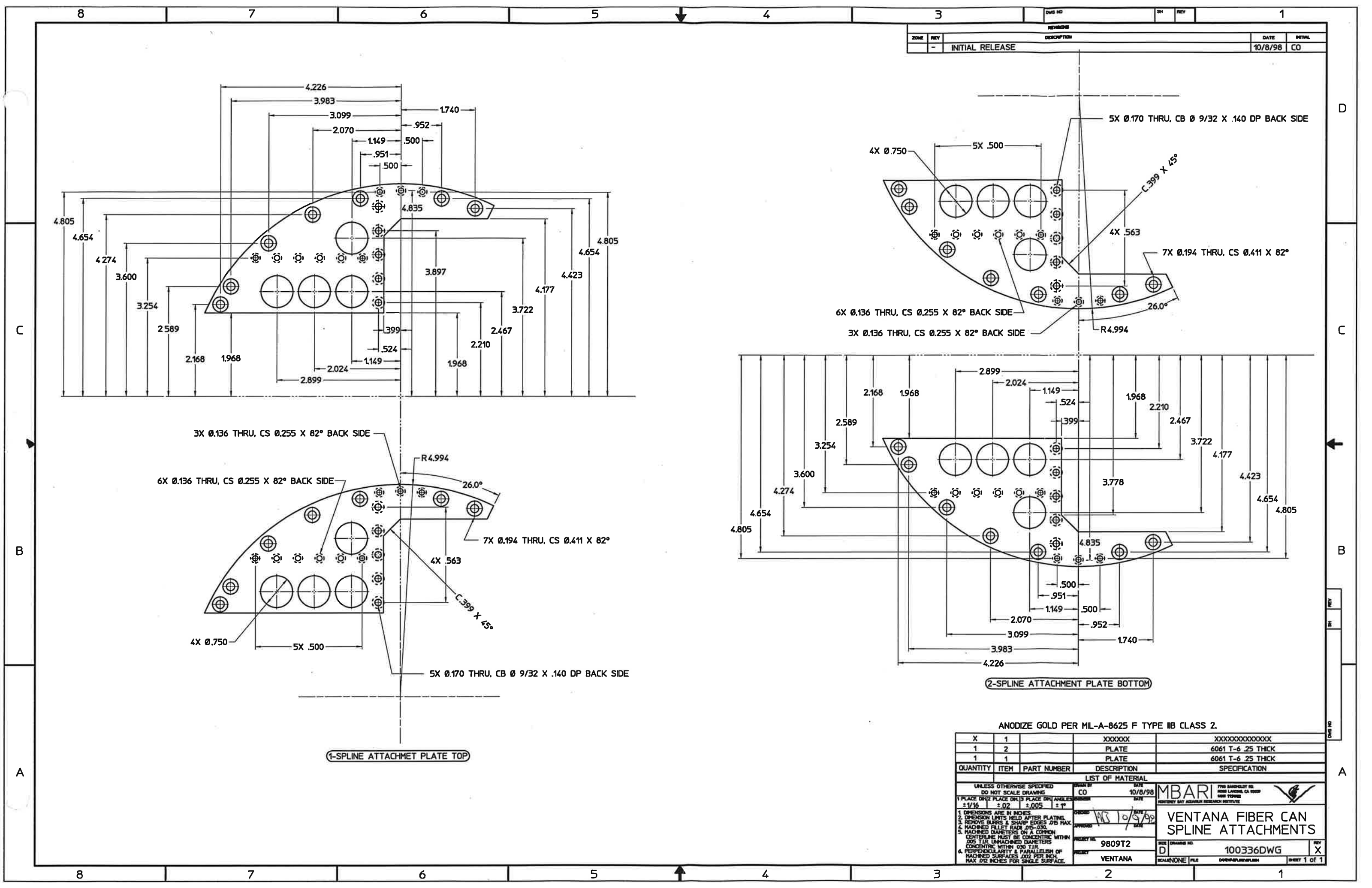
LIST OF MATERIAL		DATE	DATE
UNLESS OTHERWISE SPECIFIED		CO	09/09/98
DO NOT SCALE DRAWING			
1. PLACE DIMS PLACE DIMS PLACE DIMS			
2. DIMENSION LINES HELD AFTER PLATING			
3. REMOVE BURRS & SHARP EDGES .05 MAX			
4. HADDED FILLET RAD .05 MAX			
5. HADDED DIAMETERS ON A COMMON CENTERLINE MUST BE CONCENTRIC WITHIN .005 TIR UNMACHINED DIAMETERS			
6. PERPENDICULARITY & PARALLELISM OF HADDED SURFACES .002 PER INCH MAX .02 INCHES FOR SINGLE SURFACE			
VENTANA		9802T2	100345DWG
SCALE: NONE		FILE	OVER: PLANNING
SHEET 1 OF 1			

REVISIONS		DATE	INITIAL
ZONE	REV		
	-	INITIAL RELEASE	9/03/98 CO



ANODIZE GOLD PER MIL-A-8625 TYPE II CLASS 2.			
1	1	PLATE	1/4 6061 T-6 ALUM
QUANTITY	ITEM	DESCRIPTION	SPECIFICATION
LIST OF MATERIAL			
UNLESS OTHERWISE SPECIFIED			
DO NOT SCALE DRAWING			
1	PLATE DRILL PLUGS PLATE DRILL ANGLE	DATE	9/03/98
±1/16	±.02	±.005	±.00
1. DIMENSIONS ARE IN INCHES			
2. DIMENSION LIMITS HELD AFTER PLATING			
3. REMOVE BURRS & SHARP EDGES .015 MAX			
4. MACHINED FLATNESS .015 MAX			
5. MACHINED DIAMETERS ON A COMMON CENTERLINE MUST BE CONCENTRIC WITHIN .005 TIR UNMACHINED DIAMETERS			
6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH MAX .012 INCHES FOR SINGLE SURFACE			
PROJECT NO.		9809T2	
PROJECT		VENTANA	
DRAWING NO.		100346DWG	
SCALE		NONE	
SHEET		1 OF 1	

MBARI
MARINE BIOLOGICAL RESEARCH INSTITUTE
VENTANA FIBER CAN
END PLATE

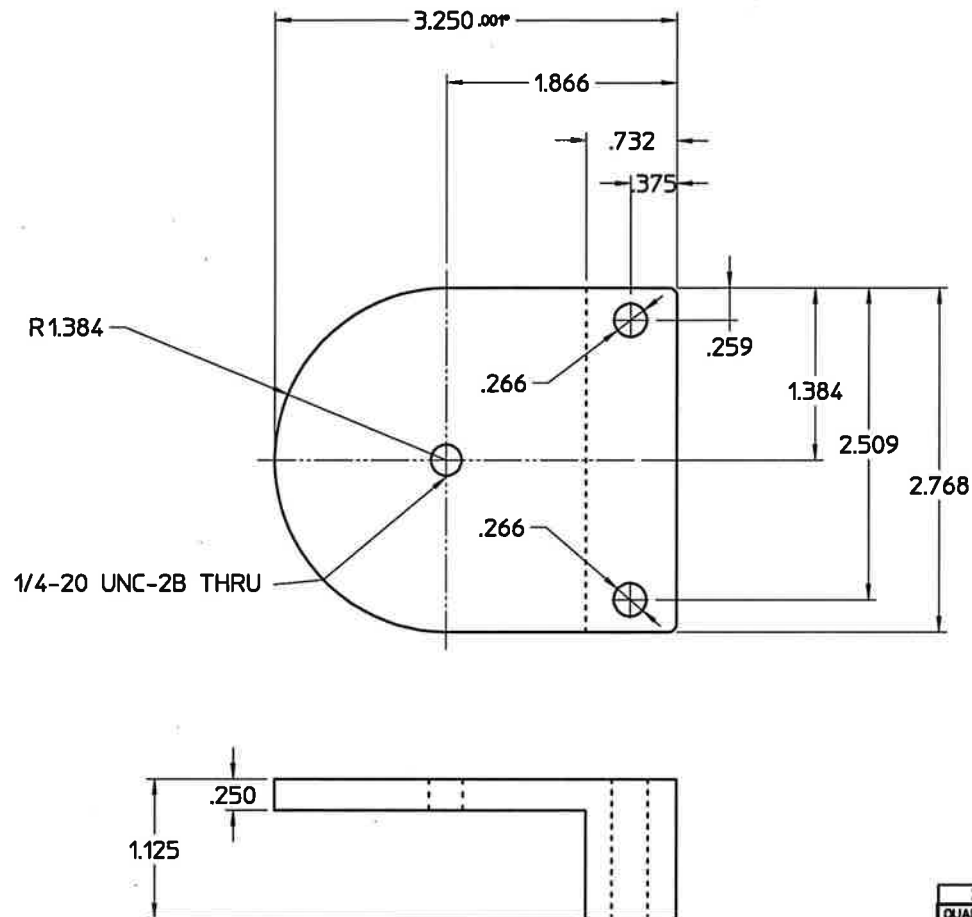


ZONE	REV	DESCRIPTION	DATE	INITIAL
-	-	INITIAL RELEASE	10/8/98	CO

ANODIZE GOLD PER MIL-A-8625 F TYPE IIB CLASS 2.			
X	1	XXXXXX	XXXXXXXXXXXXXX
1	2	PLATE	6061 T-6 .25 THICK
1	1	PLATE	6061 T-6 .25 THICK
QUANTITY	ITEM	PART NUMBER	SPECIFICATION
LIST OF MATERIAL			
UNLESS OTHERWISE SPECIFIED			
DO NOT SCALE DRAWING			
1. PLACE DRILL PLATE DRILL PLATE DRILL ANGLE			
±1/16	±.02	±.005	±°
1. DIMENSIONS ARE IN INCHES			
2. DIMENSION UNITS HELD AFTER PLATING			
3. REMOVE BURRS & SHARP EDGES .015 MAX			
4. MACHINED FILLET RADIUS .015 MAX			
5. MACHINED DIAMETERS ON A COMMON CENTERLINE MUST BE CONCENTRIC WITHIN .005 TIR UNMACHINED DIAMETERS			
6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH MAX .012 INCHES FOR SINGLE SURFACE			
DATE		DATE	DATE
10/8/98		10/8/98	10/8/98
BY		BY	BY
CO		CO	CO
PROJECT NO.		PROJECT NO.	PROJECT NO.
9809T2		9809T2	9809T2
VENTANA		VENTANA	VENTANA
SCALE		SCALE	SCALE
NONE		NONE	NONE
FILE		FILE	FILE
OVERSAMPLING		OVERSAMPLING	OVERSAMPLING
SHEET 1 of 1		SHEET 1 of 1	SHEET 1 of 1

	SH	REV
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REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED

[illegible]

DWS NO

SH

REV

REVISIONS

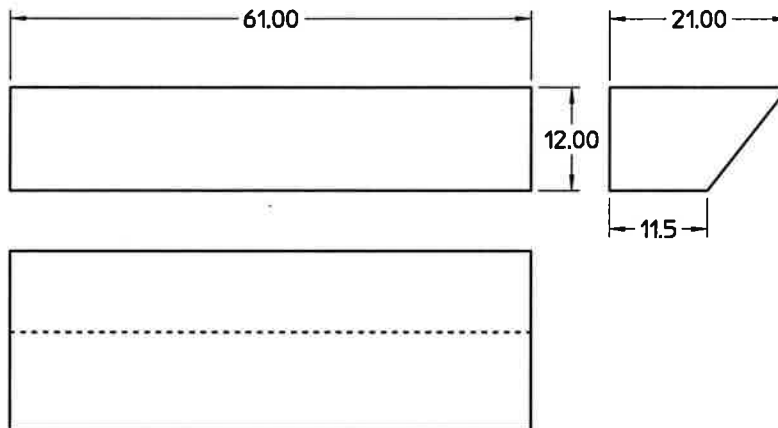
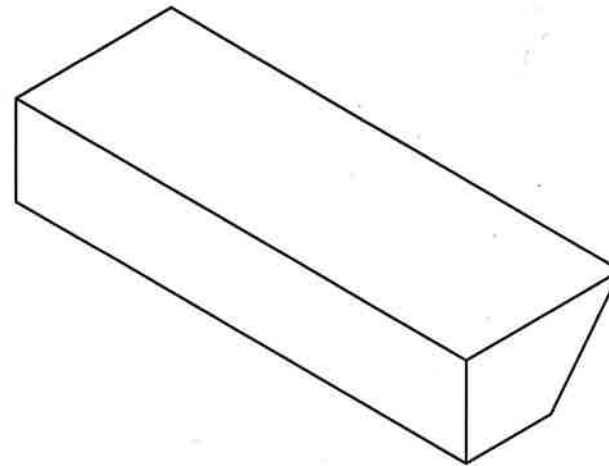
ZONE

REV

INITIAL RELEASE

DATE

APPROVED



NOTES
 RADIUS ALL EDGES .500
 FINISH PER ATTACHED SPECIFICATION
 2000 METER DEPTH

X	1		XXXX	XXXX
QUANTITY	ITEM	PART NUMBER	DESCRIPTION	SPECIFICATION
LIST OF MATERIAL				
UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING				
1. PLACE DRG PLACE DRG 11 PLACE DRG 11 PLACE DRG 11 ± 1/16 ± .02 ± .005 ± .1"				
2. DIMENSION LIMITS HELD AFTER PLATING				
3. REMOVE BURRS & SHARP EDGES .025 MAX				
4. MACHINED FLUET RAD .05-.030				
5. MACHINED DIAMETERS ON A COMMON CENTERLINE MUST BE CONCENTRIC WITHIN .005 TIR UNMACHINED DIAMETERS CONCENTRIC WITHIN .030 TIR				
6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH MAX .01 INCHES FOR SINGLE SURFACE				
PROJECT			VENTANA	
SCALE XXXX			FILE	SHEET 1 OF 1

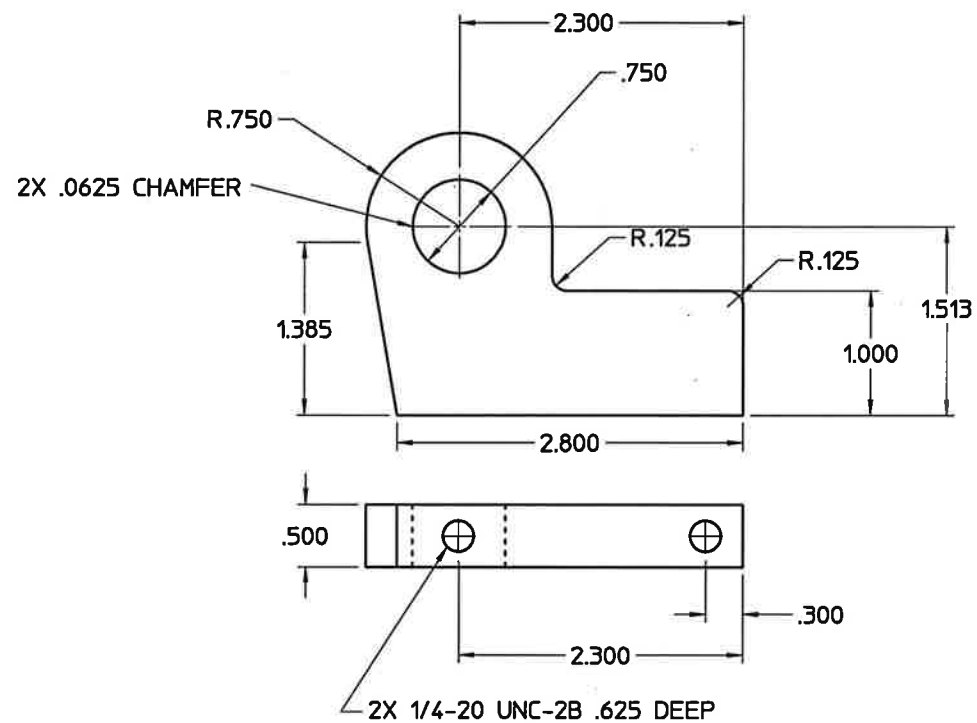
MBARI

7700 SANDHURST RD
REDWOOD CITY, CA 94061
415/940-1200

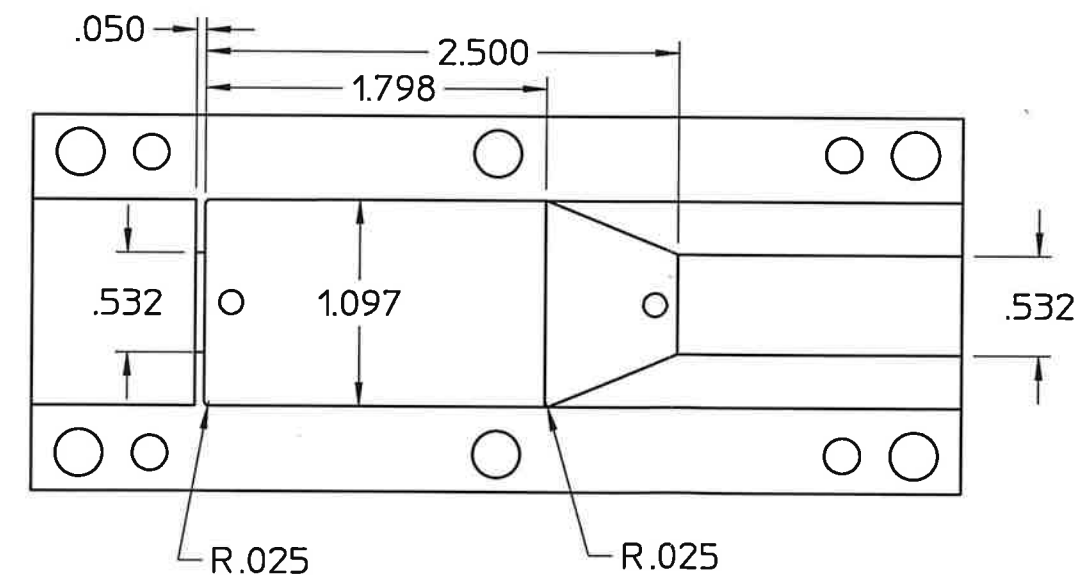
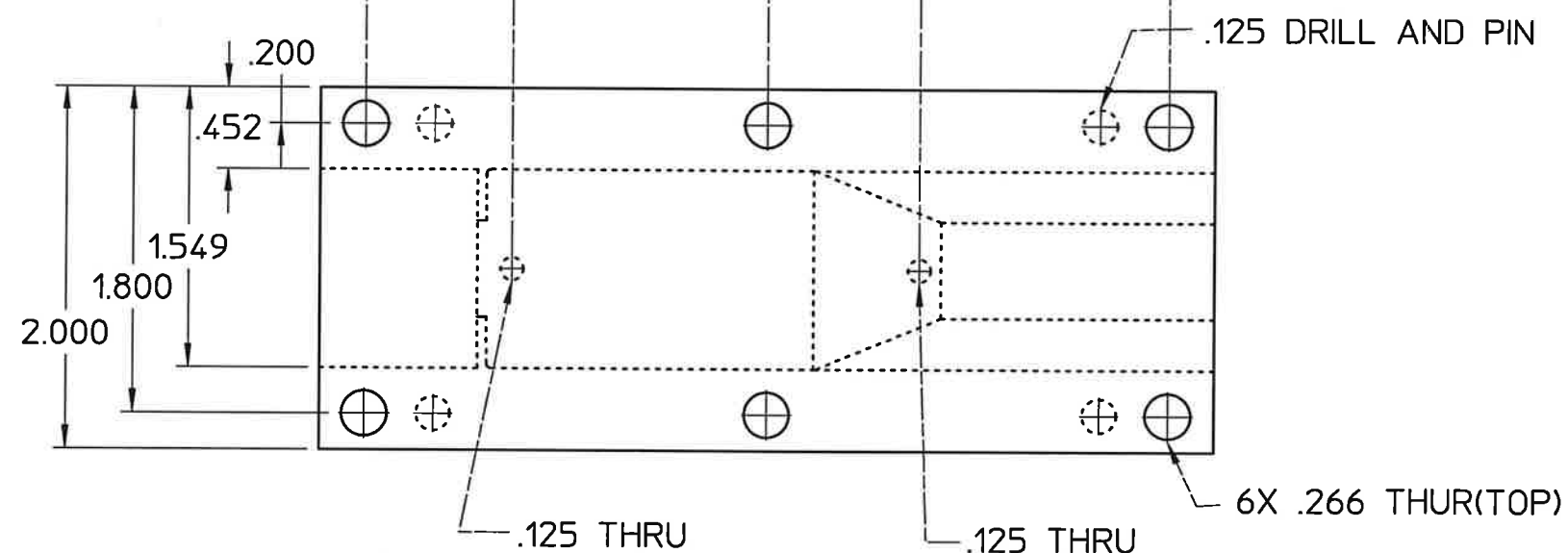
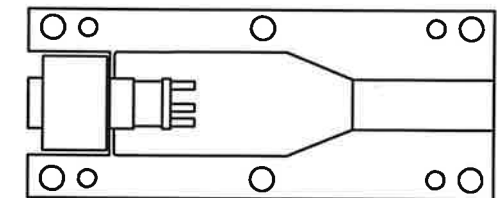
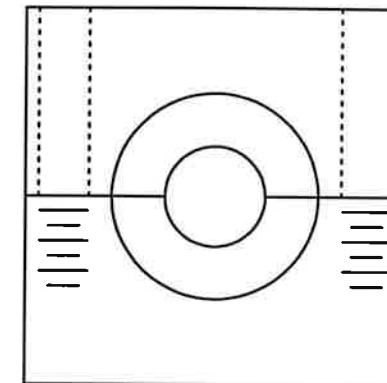
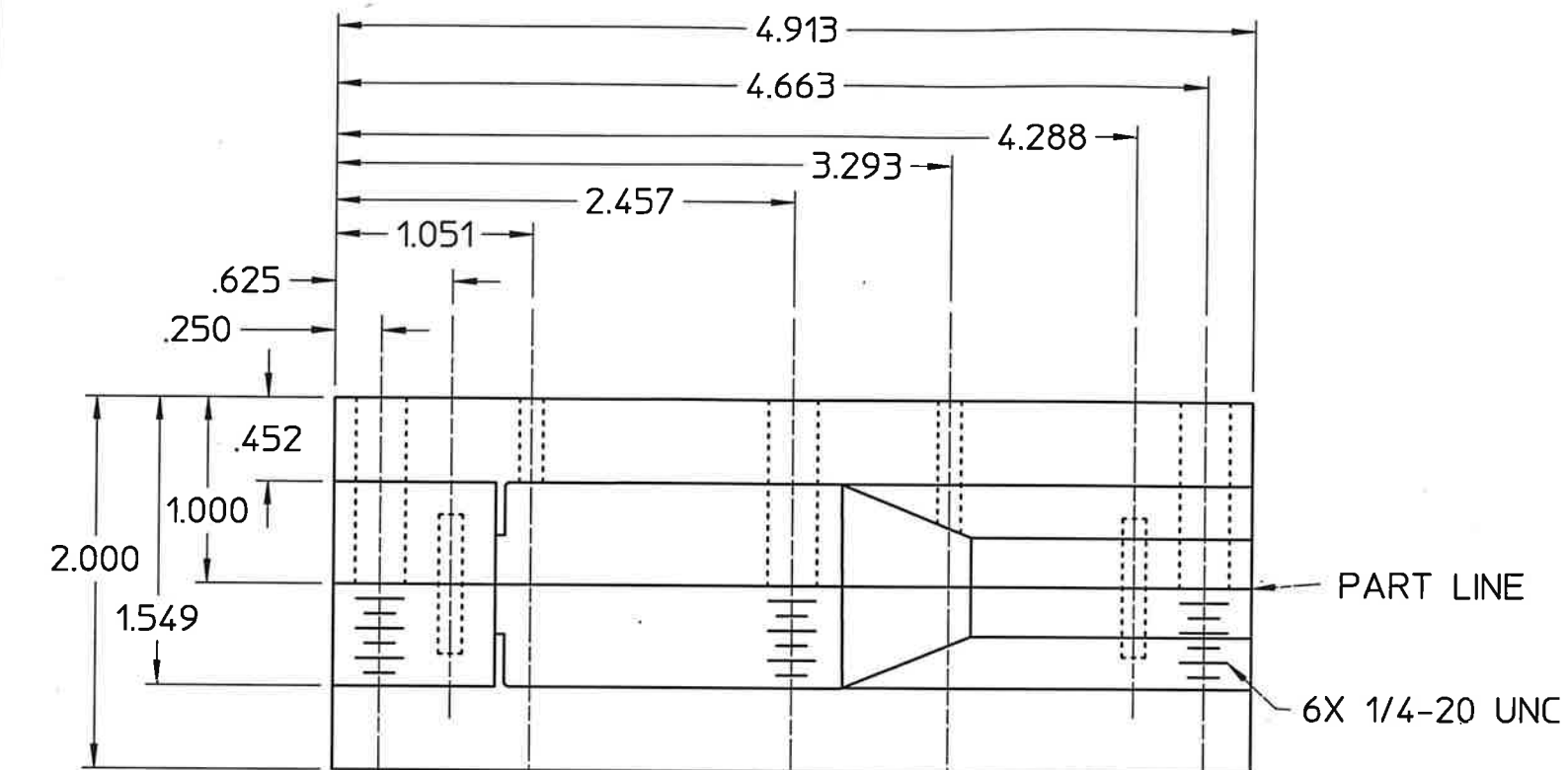
SYNTATIC FOAM
 FOR ROV VENTANA

	SH	REV
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REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	-	INITIAL RELEASE	09-10-98	CO

[illegible]

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED



X	1		XXXX	XXXX
QUANTITY	ITEM	PART NUMBER	DESCRIPTION	SPECIFICATION
LIST OF MATERIAL				
UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING			DRAWN BY XX	DATE XX/XX/XX
1 PLACE DIM2 PLACE DIM3 PLACE DIM ANGLES $\pm 1/16$ $\pm .02$ $\pm .005$ $\pm 1^\circ$			ENGINEER DATE	MBARI 7700 SANDHOLET RD. 10335 LANDERS, CA 95039 408 7759222 MONTEREY BAY AQUARIUM RESEARCH INSTITUTE
1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS & SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .015-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE MUST BE CONCENTRIC WITHIN .005 T.I.R. UNMACHINED DIAMETERS CONCENTRIC WITHIN .030 T.I.R. 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX. .012 INCHES FOR SINGLE SURFACE.			CHECKED DATE	XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXX
PROJECT NO.			APPROVED DATE	
PROJECT			XXXXXXXXXX	SIZE B DRAWING NO. XXXX SCALE XXXX FILE X:XXX/XXX/XXX SHEET 1 of 1

DWG NO

SH

REV

REVISIONS

ZONE

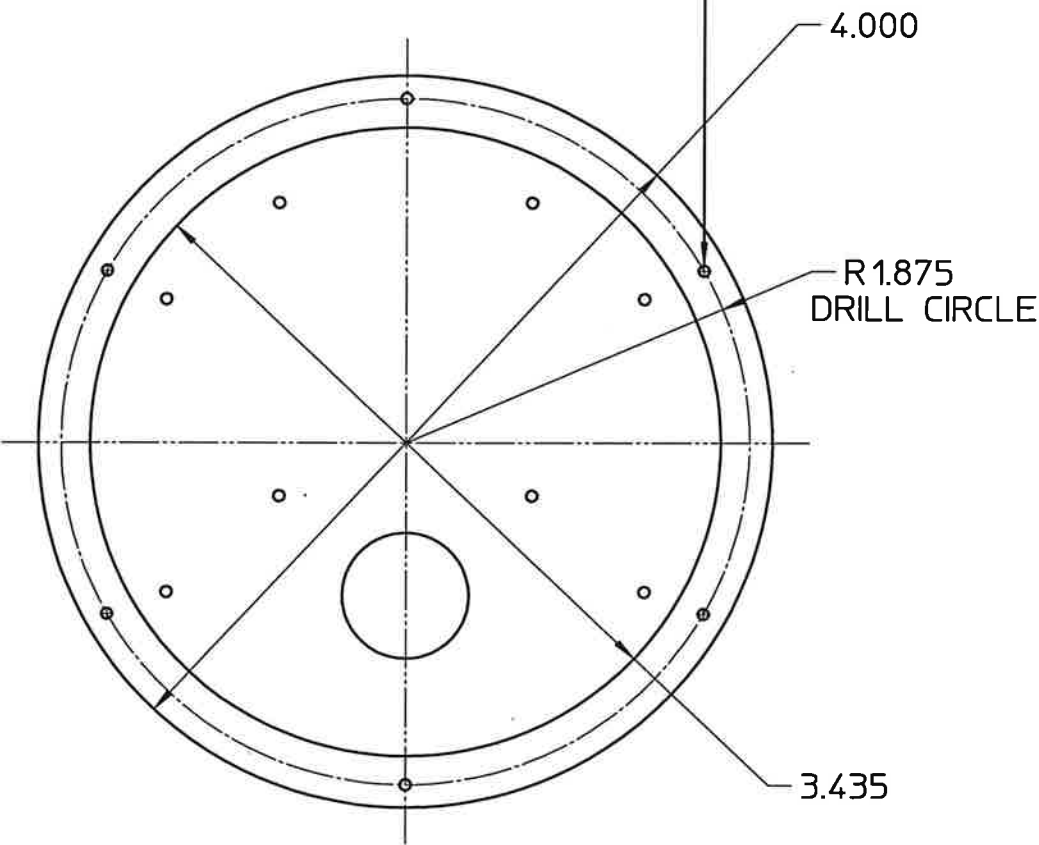
REV

DESCRIPTION

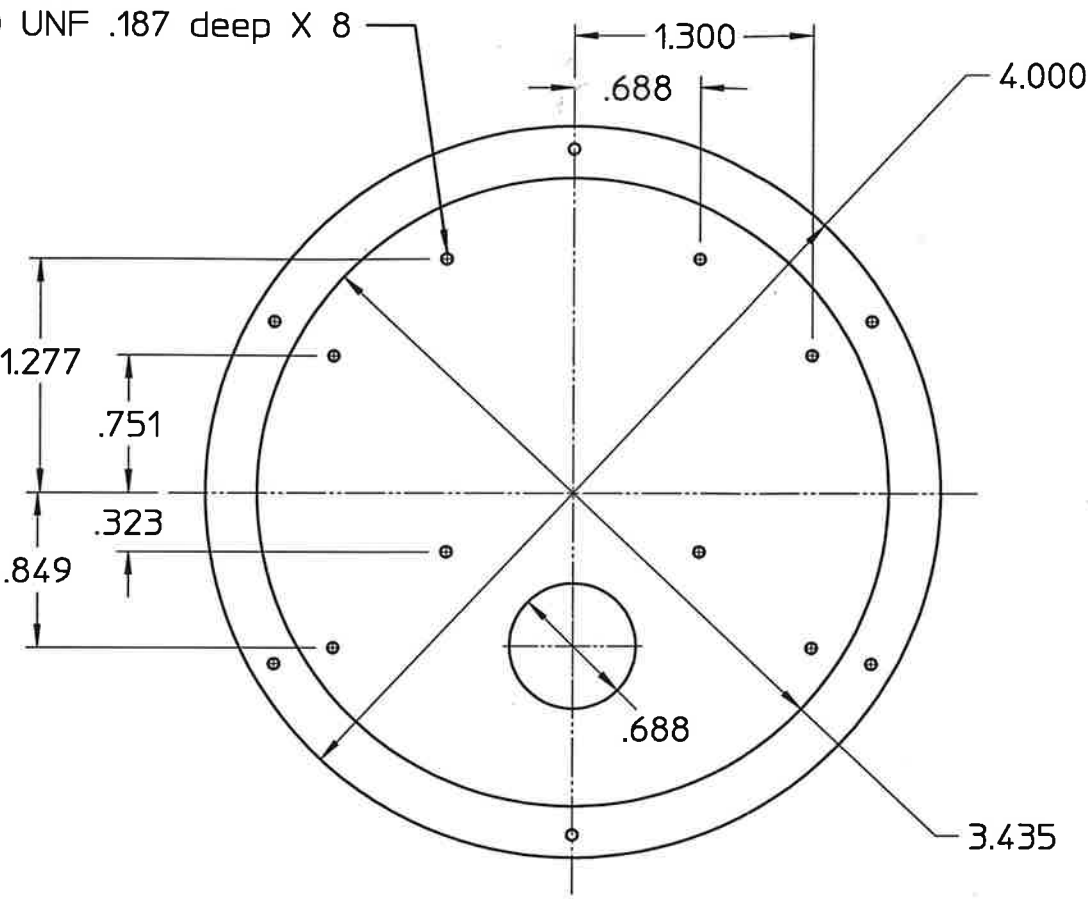
DATE

APPROVED

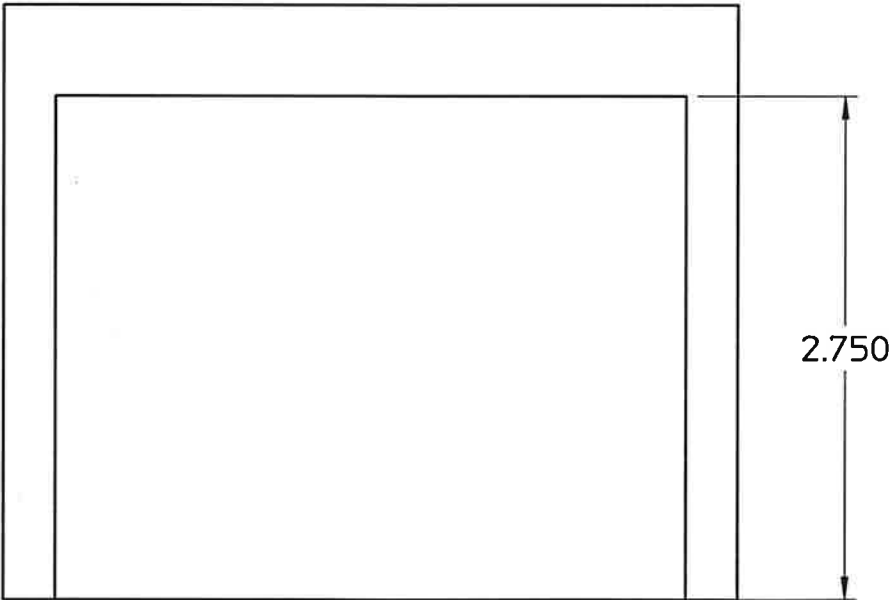
DRILL AND TAP 6-32 UNF X 6



4-40 UNF .187 deep X 8



DRILL END PLATE AS SHOWN

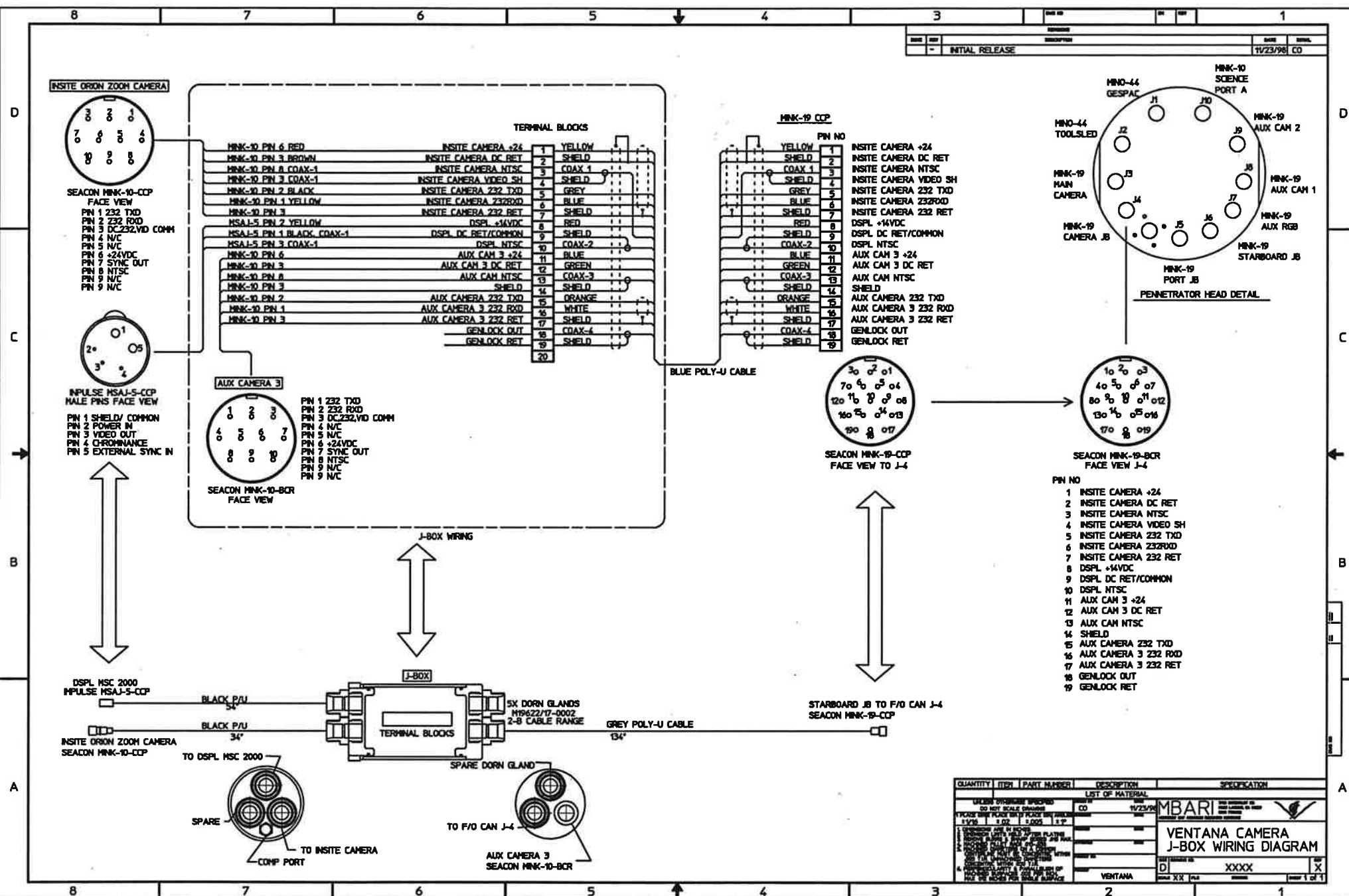


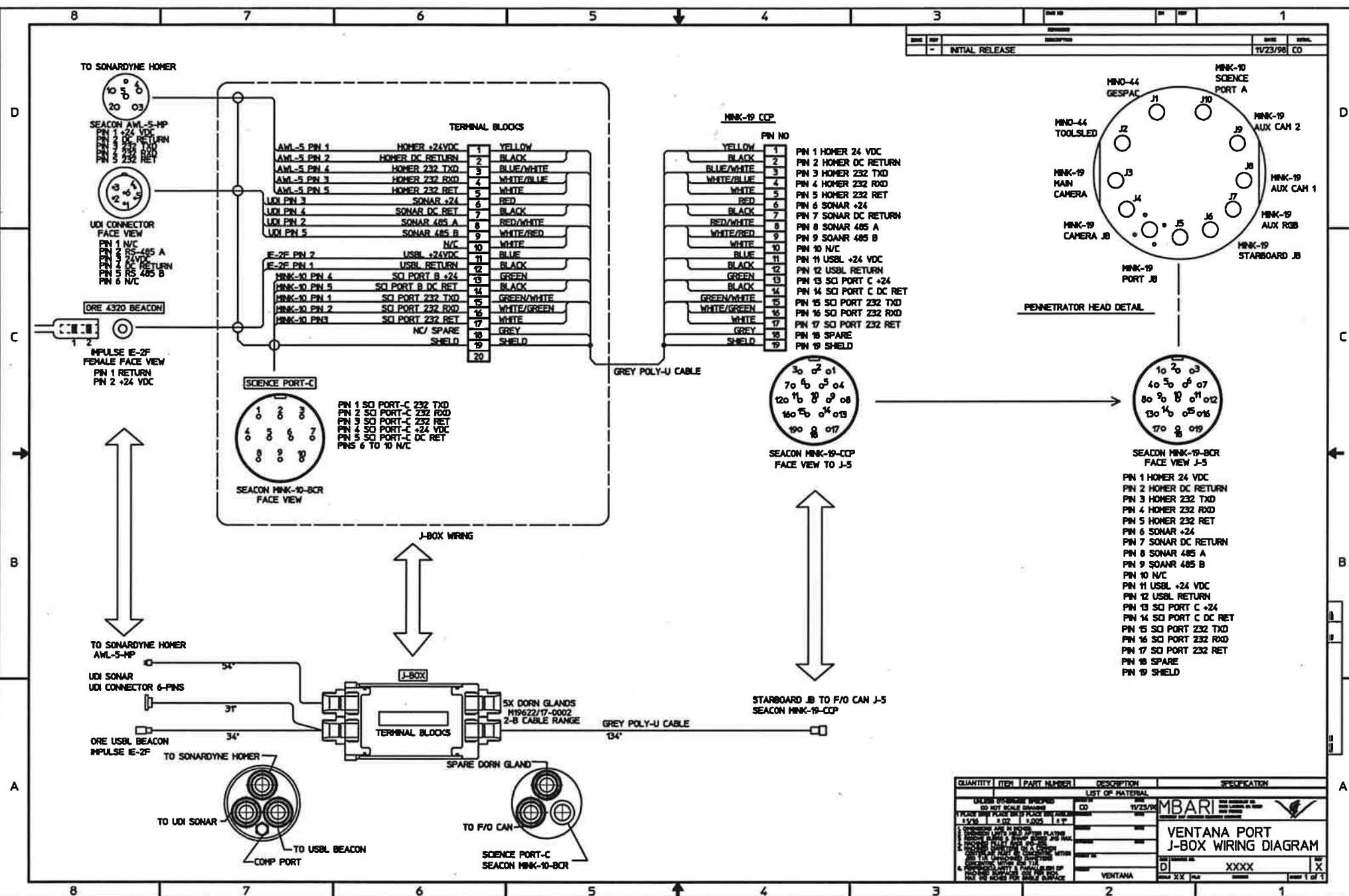
CUT EXISTING HOUSING TO SPECIFIED LENGTH

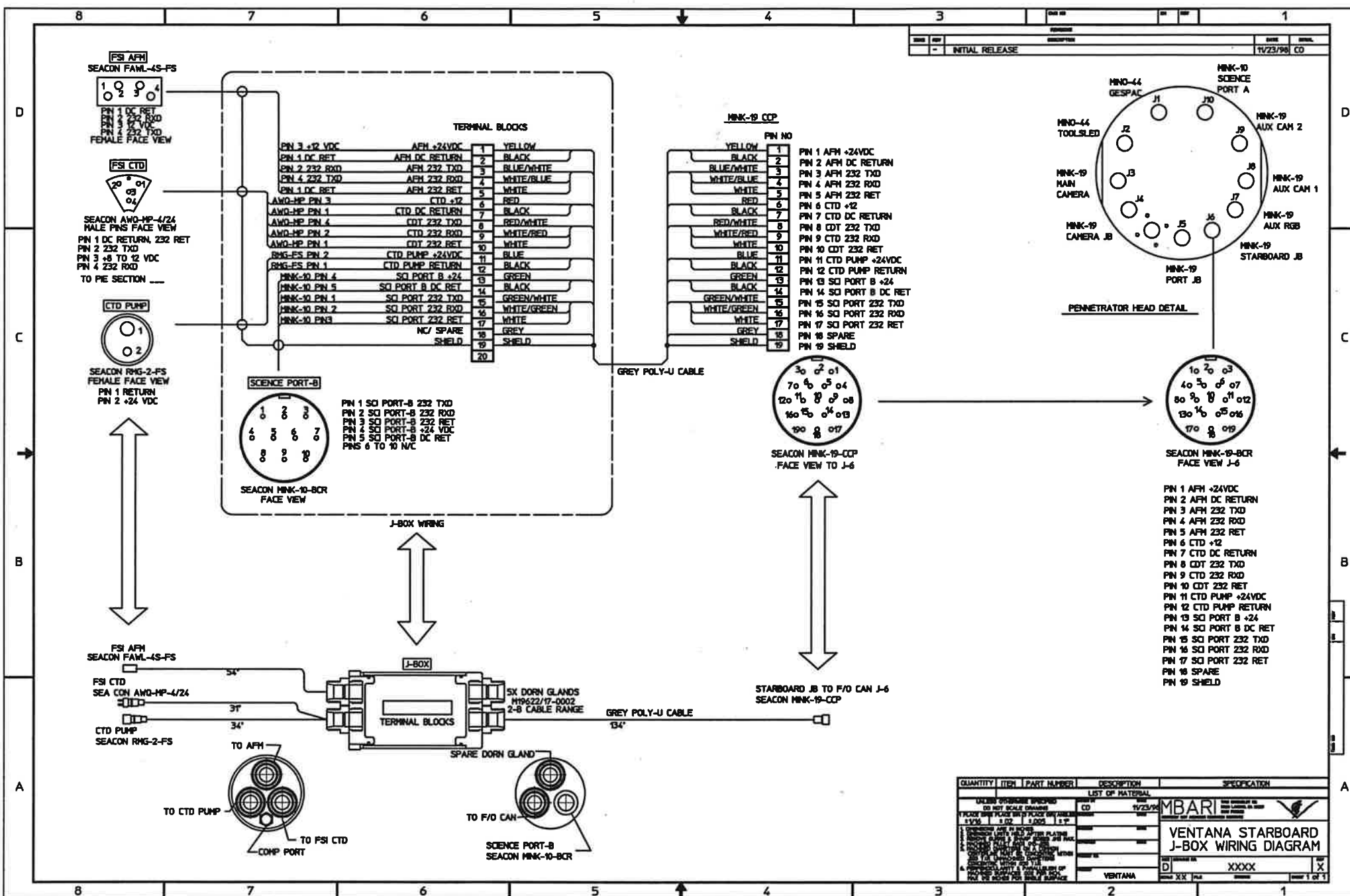
X	1		XXXX	XXXX
QUANTITY	ITEM	PART NUMBER	DESCRIPTION	SPECIFICATION
LIST OF MATERIAL				
UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING			DATE	04/29/98
1 PLACE DR1/2 PLACE DR1/3 PLACE DR1/4 ANGLES	±1/16	±.02	±.005	±1°
1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS & SHARP EDGES .015 MAX. 4. MACHINED FILLET RADI .015-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE MUST BE CONCENTRIC WITHIN .005 T.I.R. UNMACHINED DIAMETERS CONCENTRIC WITHIN .030 T.I.R. 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.			CHECKED	DATE
			APPROVED	DATE
PROJECT NO			PROJECT	
VENTANA			VENTANA	
SIZE			DRAWING NO	
B			XXXX	
SCALE			NONE	
FILE			1.000/100/1000	
SHEET			1 of 1	

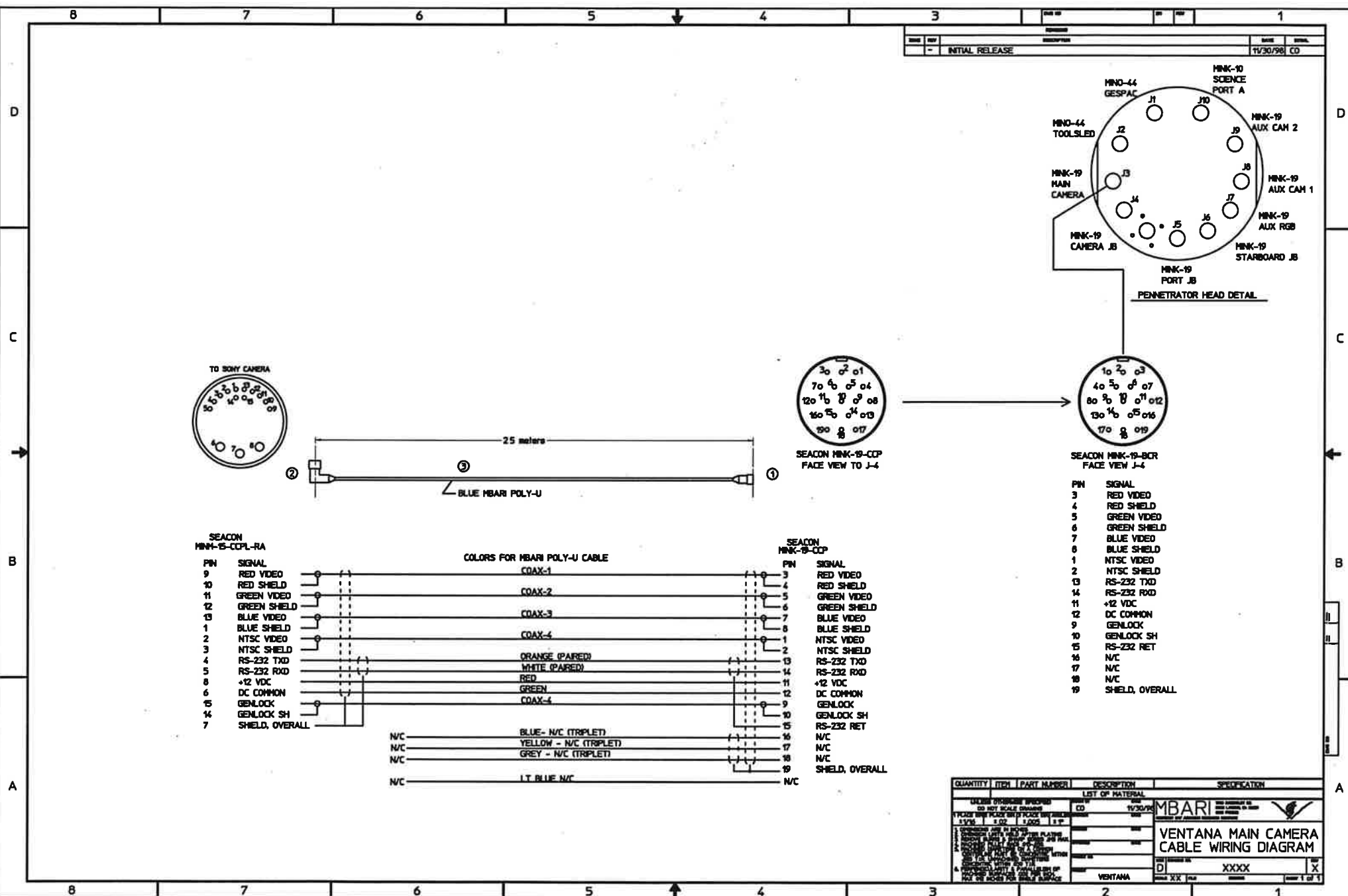
MBARI 7700 SANDHOLT RD
10555 LAKESIDE CA 95039
408 7791922
MONTEREY BAY AQUARIUM RESEARCH INSTITUTE

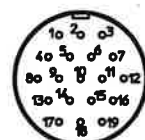
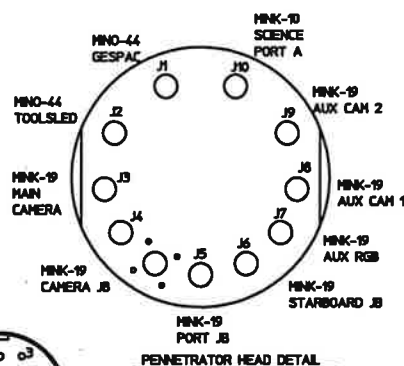
MODIFICATION TO
COMPASS HOUSING





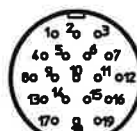






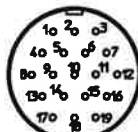
SEACON HNK-19-BCR
FACE VIEW 1-3

- | | |
|-----|-----------------|
| PIN | SIGNAL |
| 3 | RED VIDEO |
| 4 | RED SHIELD |
| 5 | GREEN VIDEO |
| 6 | GREEN SHIELD |
| 7 | BLUE VIDEO |
| 8 | BLUE SHIELD |
| 1 | NTSC VIDEO |
| 2 | NTSC SHIELD |
| 13 | RS-232 TXD |
| 14 | RS-232 RXD |
| 11 | +5VDC |
| 12 | DC COMMON |
| 9 | GENLOCK |
| 10 | GENLOCK SH |
| 15 | RS-232 RET |
| 16 | N/C |
| 17 | N/C |
| 18 | N/C |
| 19 | SHIELD, OVERALL |



SEACON HNK-19-BOR
FACE VIEW 14

- PIN NO
- | | |
|----|------------------------|
| 1 | INSITE CAMERA +24 |
| 2 | INSITE CAMERA DC RET |
| 3 | INSITE CAMERA NTSC |
| 4 | INSITE CAMERA VIDEO SH |
| 5 | INSITE CAMERA 232 TXD |
| 6 | INSITE CAMERA 232RXD |
| 7 | INSITE CAMERA 232 RET |
| 8 | DSPL +4VDC |
| 9 | DSPL DC RET/COMMON |
| 10 | DSPL NTSC |
| 11 | AUX CAM 3 +24 |
| 12 | AUX CAM 3 DC RET |
| 13 | AUX CAM NTSC |
| 14 | SHIELD |
| 15 | AUX CAMERA 232 TXD |
| 16 | AUX CAMERA 3 232 RXD |
| 17 | AUX CAMERA 3 232 RXT |
| 18 | GENLOCK OUT |
| 19 | GENLOCK RET |



SEACON HNK-19-BOR
FACE VIEW J-5

- PIN 1 HOMER 24 VDC
PIN 2 HOMER DC RETURN
PIN 3 HOMER 232 TXD
PIN 4 HOMER 232 RXD
PIN 5 HOMER 232 RET
PIN 6 SONAR +24
PIN 7 SONAR DC RETURN
PIN 8 SONAR 485 A
PIN 9 SONAR 485 B
PIN 10 N/C
PIN 11 USBL +24 VDC
PIN 12 USBL RETURN
PIN 13 SO PORT C +24
PIN 14 SO PORT C DC RET
PIN 15 SO PORT 232 TXD
PIN 16 SO PORT 232 RXD
PIN 17 SO PORT 232 RET
PIN 18 SPARE
PIN 19 SHIELD



SEACON HMK-19-BOR
FACE VIEW J-6

- PIN 1 APM +24VDC
PIN 2 APM DC RETURN
PIN 3 APM 232 TXD
PIN 4 APM 232 RXD
PIN 5 APM 232 RET
PIN 6 CTD +12
PIN 7 CTD DC RETURN
PIN 8 CTD 232 TXD
PIN 9 CTD 232 RXD
PIN 10 CTD 232 RET
PIN 11 CTD PUMP +24VDC
PIN 12 CTD PUMP RETURN
PIN 13 SQ PORT B +24
PIN 14 SQ PORT B DC RET
PIN 15 SQ PORT 232 TXD
PIN 16 SQ PORT 232 RXD
PIN 17 SQ PORT 232 RET
PIN 18 SPARE
PIN 19 SHIELD



SEACON MNK-19-BGR
FACE VIEW J-7

- | PIN | SIGNAL |
|-----|-----------------|
| 3 | RED VIDEO |
| 4 | RED SHIELD |
| 5 | GREEN VIDEO |
| 6 | GREEN SHIELD |
| 7 | BLUE VIDEO |
| 8 | BLUE SHIELD |
| 1 | NTSC VIDEO |
| 2 | NTSC SHIELD |
| 13 | RS-232 TXD |
| 14 | RS-232 RXD |
| 11 | +12 VDC |
| 12 | DC COMMON |
| 9 | GENLOCK |
| 10 | GENLOCK SH |
| 15 | RS-232 RET |
| 16 | N/C |
| 17 | N/C |
| 18 | N/C |
| 19 | SHIELD, OVERALL |

QUANTITY	ITEM	PART NUMBER	DESCRIPTION	SPECIFICATION
			LIST OF MATERIAL	
			UNLESS OTHERWISE SPECIFIED DO NOT SCALE DIMENSIONS	
			CO	11/30/09
			FLUOROPOLYMER BRASS	MBARI
			1/16" 1/8" 1/4" 1/2" 3/4" 1"	MBARI 1000 Commercial St. San Francisco, CA 94103 Tel: 415.774.1100 Fax: 415.774.1101 www.mbari.org
			VENTANA MAIN CAMERA CABLE WIRING DIAGRAM	
			VENTANA	

DWG NO

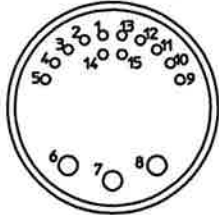
SH

REV

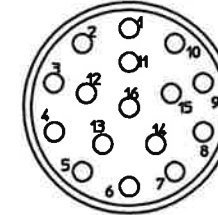
REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
	-	INITIAL RELEASE		

TO SONY CAMERA



TO TELEM CAN



2.5 meters

②

③

①

BLUE MBARI POLY-U

SEACON
MINM-15-CCPL-RA

PIN	SIGNAL
9	RED VIDEO
10	RED SHIELD
11	GREEN VIDEO
12	GREEN SHIELD
13	BLUE VIDEO
1	BLUE SHIELD
2	NTSC VIDEO
3	NTSC SHIELD
4	RS-232 Y
5	RS-232 R
8	+12 VDC
6	DC COMMON
15	NC
14	NC
7	SHIELD, OVERALL

COLORS FOR MBARI POLY-U CABLE

COAX-1

COAX-2

COAX-3

COAX-4

ORANGE (PAIRED)

WHITE (PAIRED)

RED

GREEN

COAX-4

BLUE- N/C

YELLOW - N/C

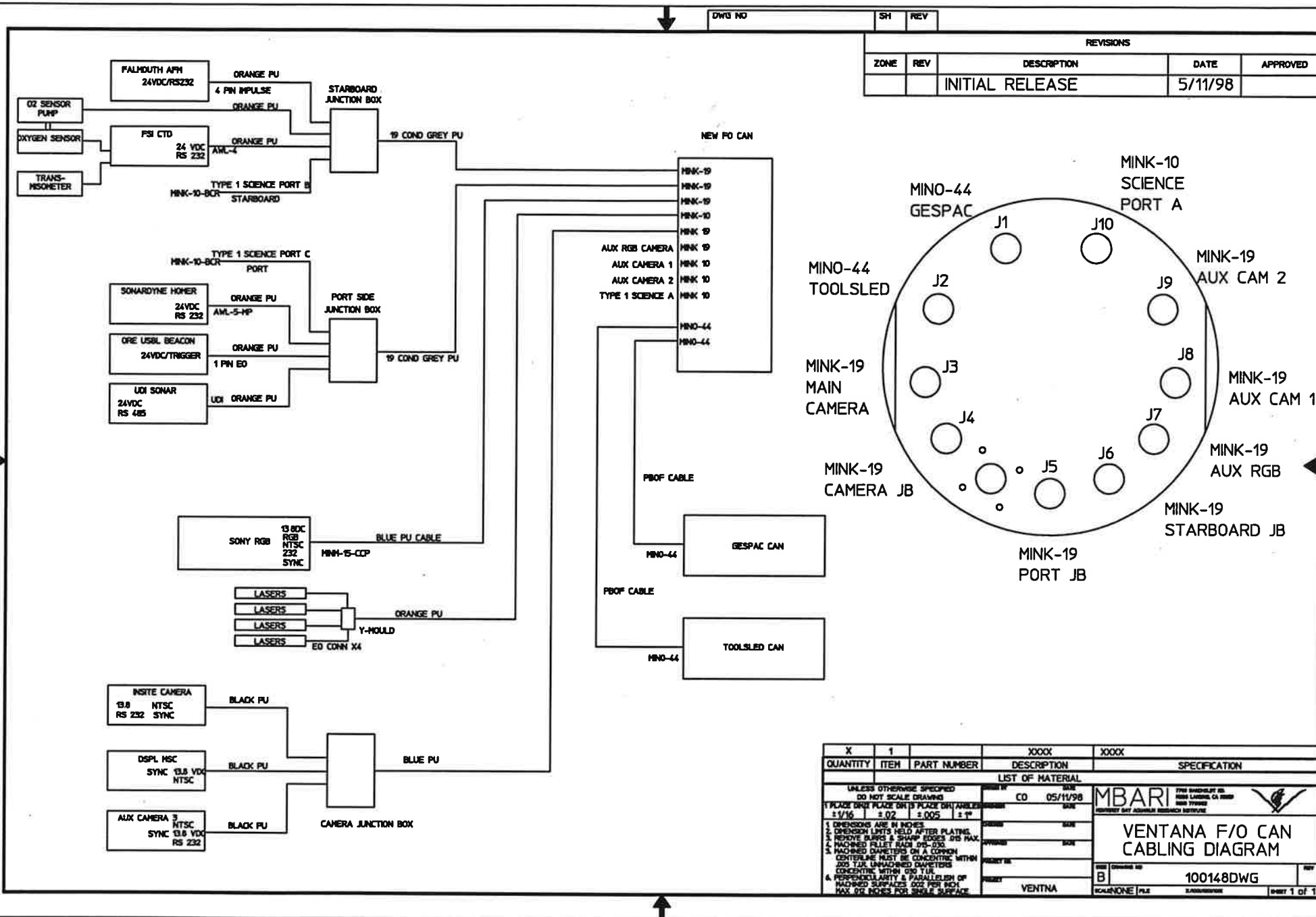
GREY - N/C

LT BLUE N/C

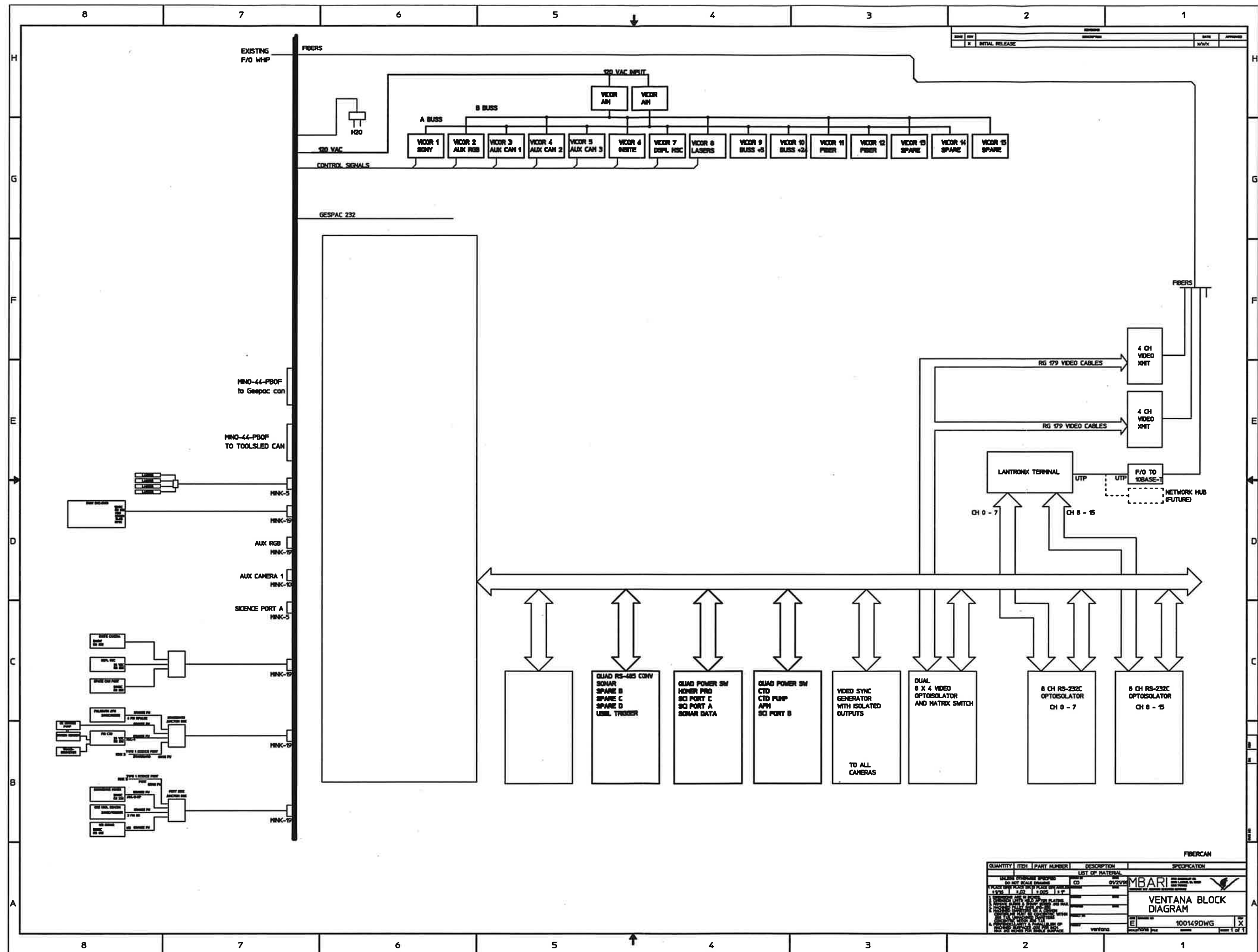
SEACON
MINK-19-CCP

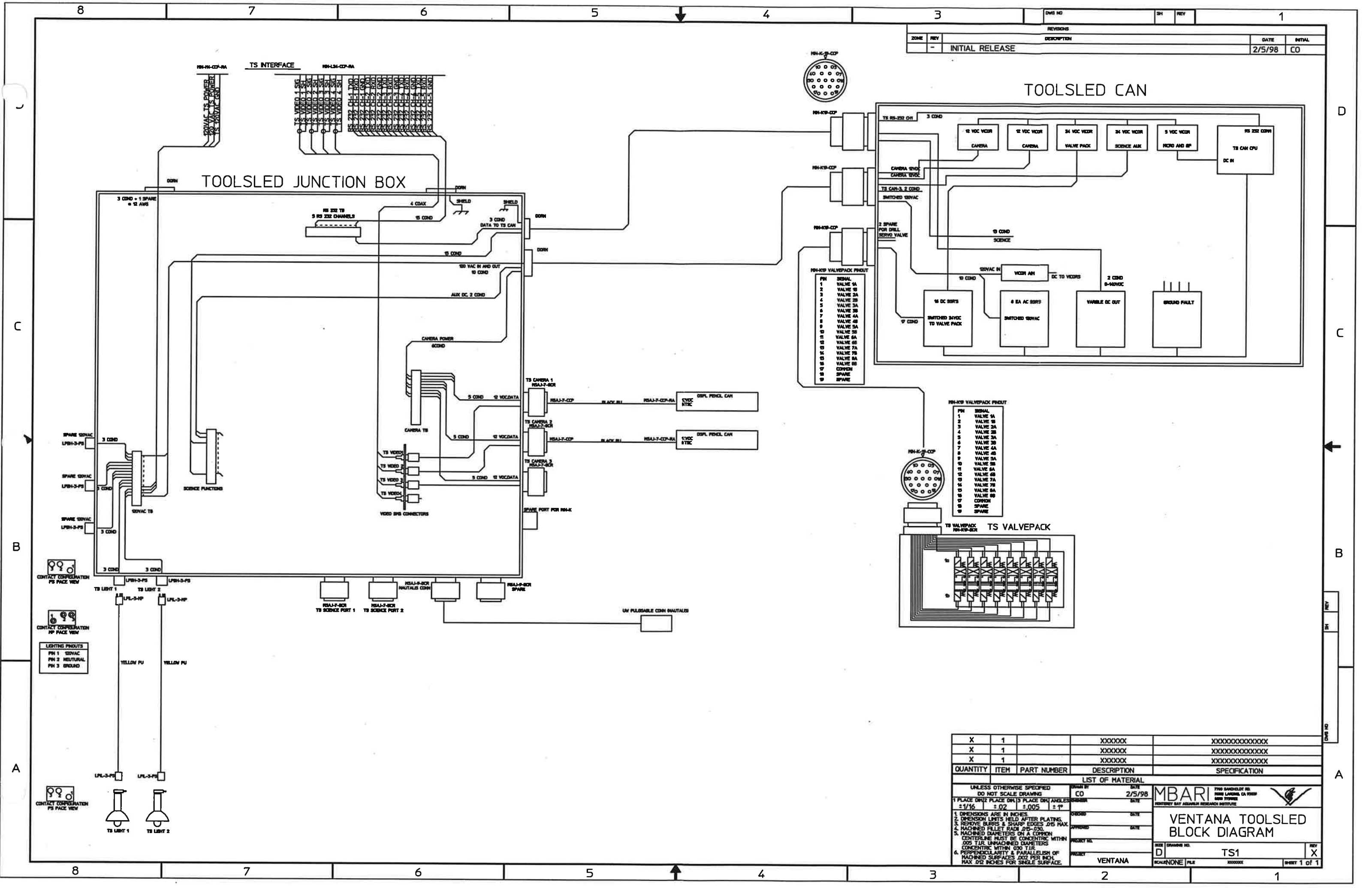
PIN	SIGNAL
3	RED VIDEO
4	RED SHIELD
5	GREEN VIDEO
6	GREEN SHIELD
7	BLUE VIDEO
8	BLUE SHIELD
1	NTSC VIDEO
2	NTSC SHIELD
13	RS-232 TXD
14	RS-232 RXD
11	+12 VDC
12	DC COMMON
9	GENLOCK
10	GENLOCK SH
15	RS-232 RET
16	N/C
17	N/C
18	N/C
19	SHIELD

3M	3		CABLE	MBARI POLY-U CABLE
1	2		CONNECTOR	MIN-M5-CCPL-RA
1	1		CONNECTOR	MSS-K16-CCP-RA
QUANTITY	ITEM	PART NUMBER	DESCRIPTION	SPECIFICATION
LIST OF MATERIAL				
UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING			DATE CO 02/02/98	MBARI 7700 SHAWHOLT BL MARIETTA GA 30067 PHONE 770-426-1000 FAX 770-426-1001
1 PLACE DRG PLACE DRG 1 PLACE				



QUANTITY	ITEM	PART NUMBER	DESCRIPTION	SPECIFICATION
LIST OF MATERIAL				
1	CO	05/11/98	DATE	
UNLESS OTHERWISE SPECIFIED				
DO NOT SCALE DRAWINGS				
1. PLACE DIMS PLACE DIMS PLACE DIMS				
2. DIMENSIONS ARE IN INCHES				
3. DIMENSION LINES HELD AFTER PLATING				
4. REMOVE BURRS & SHARP EDGES DIMS MAX				
5. MACHINED SURFACES TO 0.005				
6. MACHINED DIAMETERS ON A COMMON				
7. CENTERLINE MUST BE CONCENTRIC WITH				
8. 0.005 TYP UNMACHINED DIAMETERS				
9. CONCENTRIC WITH 0.005 TYP				
10. PERPENDICULARITY & PARALLELISM OF				
11. MACHINED SURFACES 0.002 FOR 90°				
12. MAX 0.01 INCHES FOR SINGLE SURFACE				
VENTANA				
SCALE: NONE FILE				
100148DWG				
SHEET 1 OF 1				





REVISIONS		DATE	INITIAL
ZONE	REV	DESCRIPTION	
-	1	INITIAL RELEASE	2/5/98 CO

PN	SIGNAL
1	VALVE 1A
2	VALVE 1B
3	VALVE 2A
4	VALVE 2B
5	VALVE 3A
6	VALVE 3B
7	VALVE 4A
8	VALVE 4B
9	VALVE 5A
10	VALVE 5B
11	VALVE 6A
12	VALVE 6B
13	VALVE 7A
14	VALVE 7B
15	VALVE 8A
16	VALVE 8B
17	COMMON
18	SPARE
19	SPARE

X	1		XXXXXX	XXXXXXXXXXXXXXXXXX
X	1		XXXXXX	XXXXXXXXXXXXXXXXXX
X	1		XXXXXX	XXXXXXXXXXXXXXXXXX
QUANTITY	ITEM	PART NUMBER	DESCRIPTION	SPECIFICATION
LIST OF MATERIAL				
UNLESS OTHERWISE SPECIFIED DO NOT SCALE DRAWING			DRAWN BY CO	DATE 2/5/98
1. PLACE DIMS PLACE DIMS PLACE DIMS PLACE DIMS PLACE DIMS ±1/16 ±.02 ±.005 ±.0°			CHECKED	DATE
2. DIMENSIONS ARE IN INCHES			APPROVED	DATE
3. DIMENSION LINES HELD AFTER PLATING			PROJECT NO.	PROJECT
4. REMOVE BURRS & SHARP EDGES .015 MAX			VENTANA	
5. MACHINED FILLET RADI .015-.030			SIZE	DRAWING NO.
6. MACHINED DIAMETERS ON A COMMON CENTERLINE MUST BE CONCENTRIC WITHIN .005 TIR UNMACHINED DIAMETERS CONCENTRIC WITHIN .030 TIR			SCALE	FILE
7. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH MAX .012 INCHES FOR SINGLE SURFACE			TS1	XXXXXXX
			REVIEW	SHIRT 1 of 1
			X	

MBARI 7700 SANDHOLM RD. FORTY LARSEN CA 94030
VENTANA TOOLSLIED BLOCK DIAGRAM