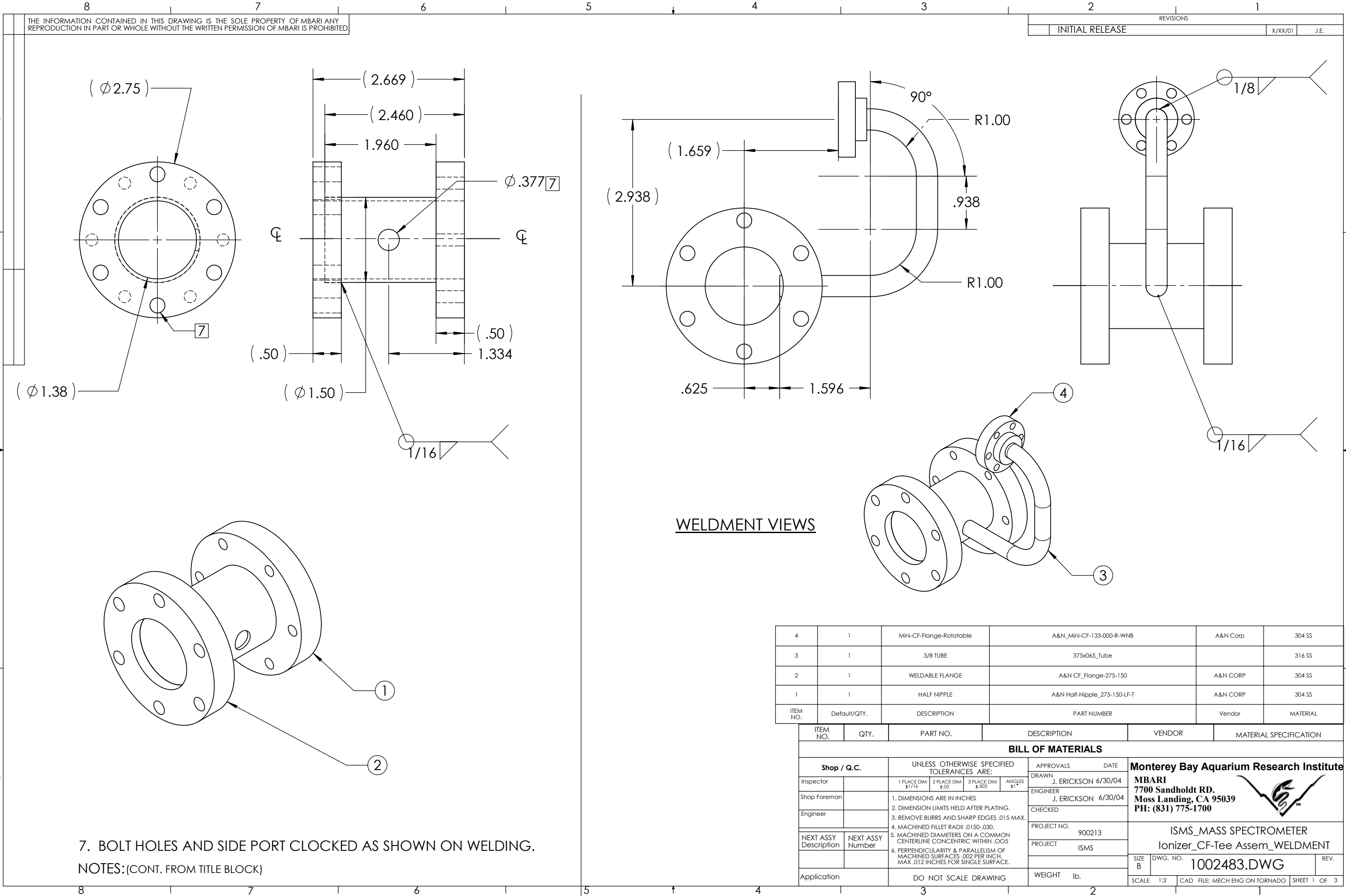




WELDMENT VIEWS

4	1	Mini-CF-Flange-Rotatable	A&N_Mini-CF-133-000-R-WNB	A&N Corp	304 SS
3	1	3/8 TUBE	375x065_Tube		316 SS
2	1	WELDABLE FLANGE	A&N CF_Flange-275-150	A&N CORP	304 SS
1	1	HALF NIPPLE	A&N Half-Nipple_275-150-LF-T	A&N CORP	304 SS
ITEM NO.	Default/QTY.	DESCRIPTION	PART NUMBER	Vendor	MATERIAL

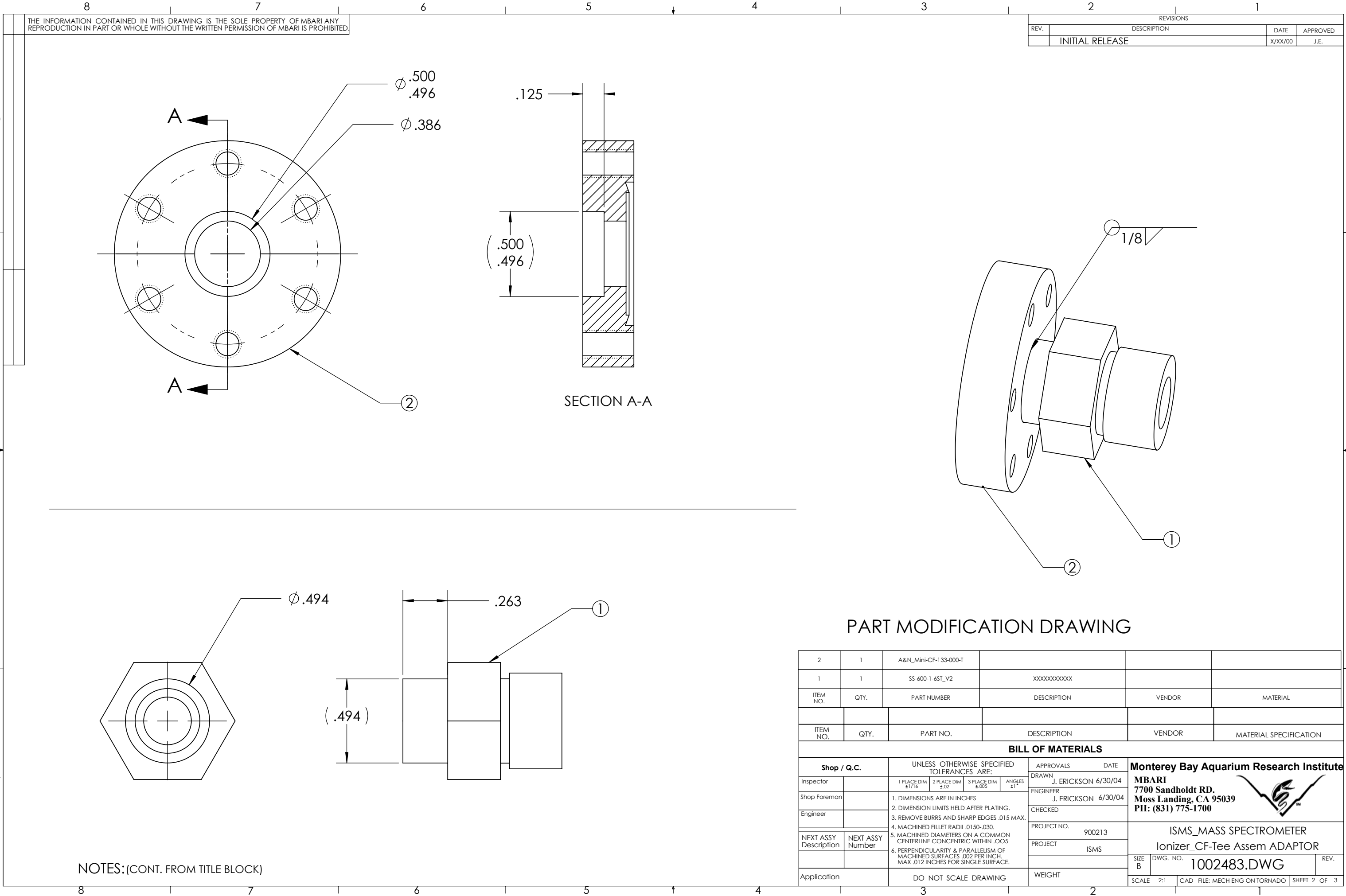
ITEM NO.	QTY.	PART NO.	DESCRIPTION	VENDOR	MATERIAL SPECIFICATION
BILL OF MATERIALS					
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE	
Inspector		1 PLACE DIM ±.1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°
Shop Foreman		1. DIMENSIONS ARE IN INCHES		DRAWN J. ERICKSON 6/30/04	
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.		ENGINEER J. ERICKSON 6/30/04	
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.		CHECKED	
		4. MACHINED FILLET RADII .0150-.030.		PROJECT NO. 900213	
NEXT ASSY Description	NEXT ASSY Number	5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005		PROJECT ISMS	
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH, MAX .012 INCHES FOR SINGLE SURFACE.			
Application		DO NOT SCALE DRAWING		WEIGHT lb.	
				SCALE 1:2	CAD FILE: MECH ENG ON TORNADO

Monterey Bay Aquarium Research Institute
MBARI
7700 Sandholdt RD.
Moss Landing, CA 95039
PH: (831) 775-1700

ISMS_MASS SPECTROMETER
Ionizer_CF-Tee Assem_WELDMNT

SIZE B DWG. NO. 1002483.DWG REV.

SHEET 1 OF 3



NOTES:(CONT. FROM TITLE BLOCK)

PART MODIFICATION DRAWING

2	1	A&N_Mini-CF-133-000-T			
1	1	SS-600-1-6ST_V2	XXXXXXXXXX		
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 6/30/04	
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.		ENGINEER J. ERICKSON 6/30/04	
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.		CHECKED	
		4. MACHINED FILLET RADII .0150-.030.		PROJECT NO. 900213	
NEXT ASSY Description	NEXT ASSY Number	5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005		PROJECT ISMS	
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.			
Application		DO NOT SCALE DRAWING		WEIGHT	
				SCALE 2:1	CAD FILE: MECH ENG ON TORNADO
				SHEET 2 OF 3	

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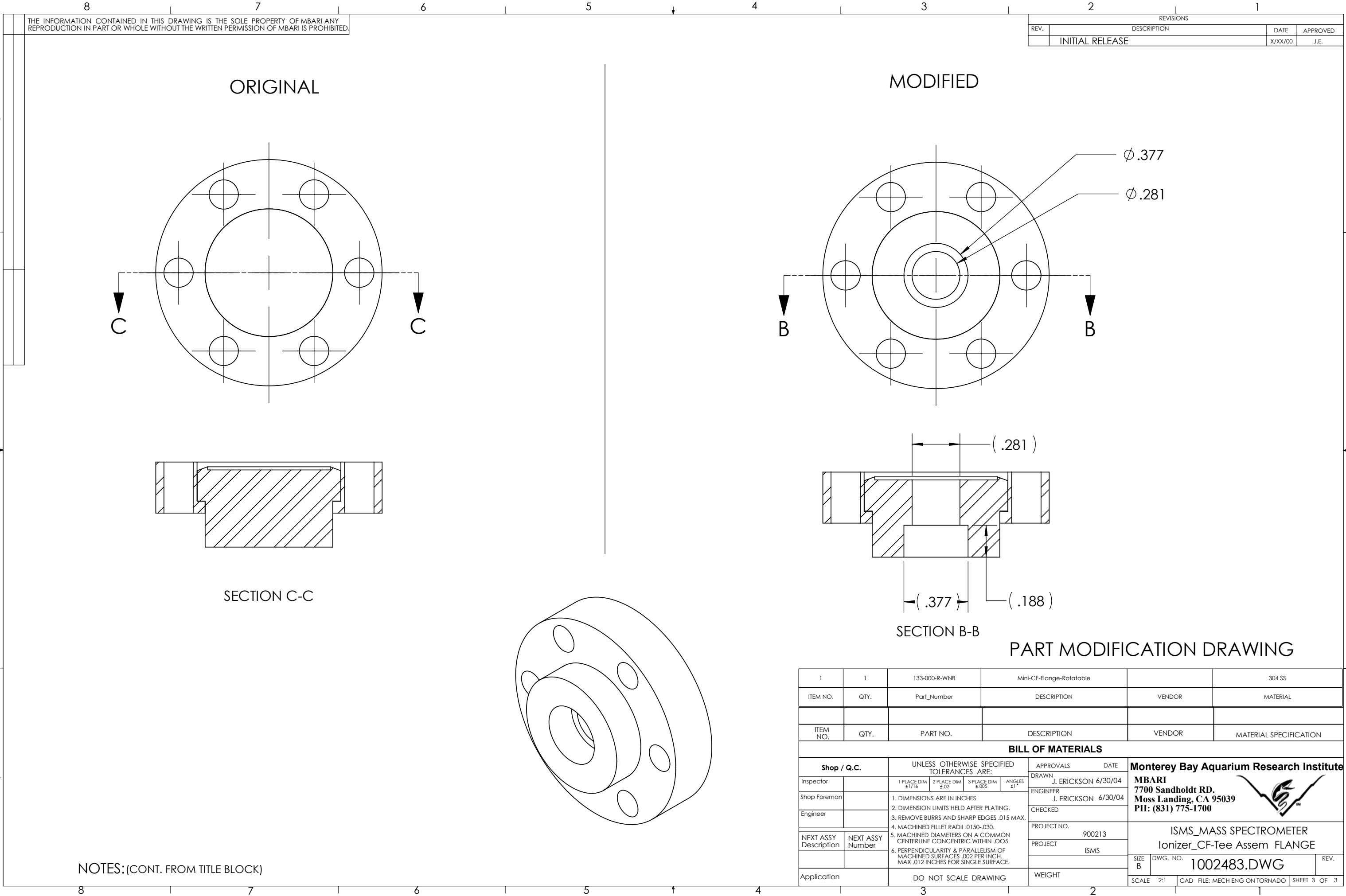
ISMS_MASS SPECTROMETER

Ionizer_CF-Tee Assem ADAPTOR

SIZE B

DWG. NO. 1002483.DWG

REV.

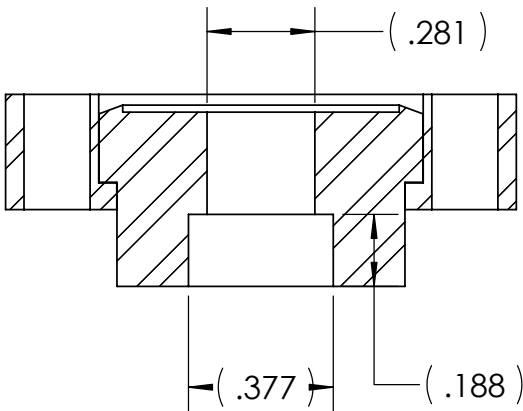
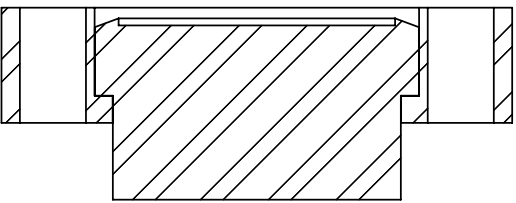
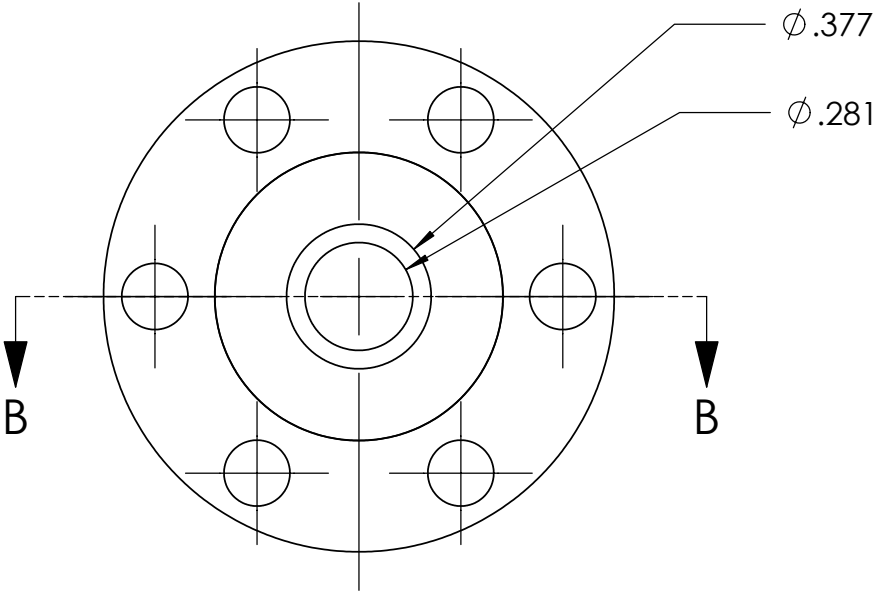
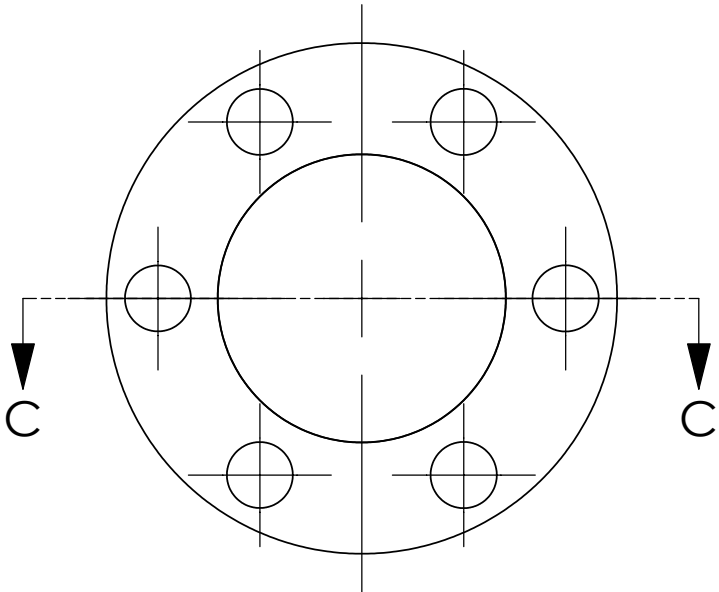


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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE	X/XX/00	J.E.

ORIGINAL

MODIFIED



SECTION C-C

SECTION B-B

PART MODIFICATION DRAWING

1	1	133-000-R-WNB	Mini-CF-Flange-Rotatable		304 SS
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 $\pm .1/16$	2 PLACE DIM $\pm .02$	3 PLACE DIM $\pm .005$	ANGLES $\pm 1^\circ$
Shop Foreman		1. DIMENSIONS ARE IN INCHES		DRAWN J. ERICKSON 6/30/04	
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.		ENGINEER J. ERICKSON 6/30/04	
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.		CHECKED	
		4. MACHINED FILLET RADII .0150-.030.		PROJECT NO. 900213	
NEXT ASSY Description	NEXT ASSY Number	5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005		PROJECT ISMS	
		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. 1002483.DWG
				SCALE 2:1	CAD FILE: MECH ENG ON TORNADO SHEET 3 OF 3

NOTES:(CONT. FROM TITLE BLOCK)

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ISMS_MASS SPECTROMETER
Ionizer_CF-Tee Assem FLANGE