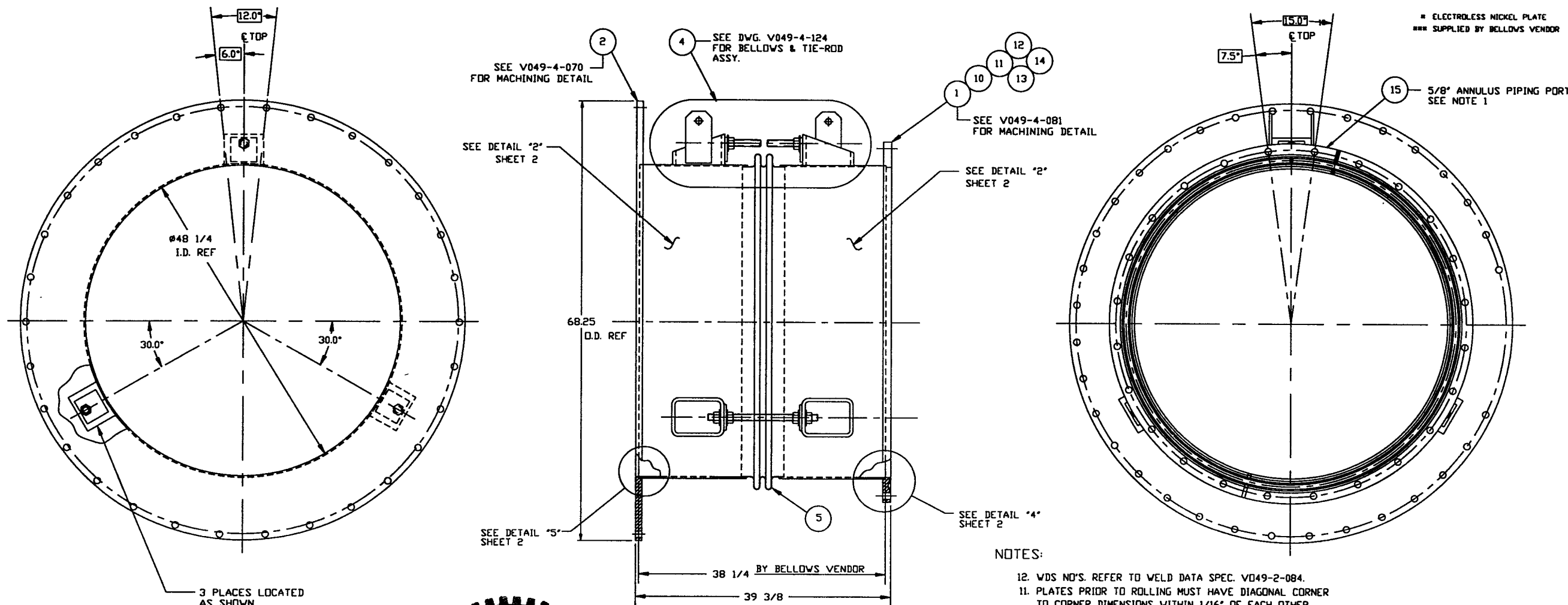


ITEM	PART NUMBER	SUFFIX	QTY	UM	DESCRIPTION
9					
10	202678	3	24	EA	BOLT, SA193B7, HEX HD. 7/8"-9UNCx4" LG
11	202679	3	24	EA	NUT, HEX, SA1942H, 7/8"-9UNC
12	202581	3	48	EA	WASHER, STL, 1 3/4"ODx1 1/2"IDx1/4" THK
13	V049M024		1	EA	O-RING, VITON (PER SPEC V049-2-045)
14	V049M025		1	EA	O-RING, VITON (PER SPEC V049-2-045)
15	V0494061		1	EA	3/4" O.D. ELEBOV x 2 3/4" O.D. CF.

ITEM	PART NUMBER	SUFFIX	QTY	UM	DESCRIPTION
1	V0494061		1	EA	FLANGE, GROOVED, 48 1/4" ID X 56" OD X 1-1/4" THK
2	V0494070		1	EA	FLANGE, FLAT FACE, 48 1/4" ID X 68 1/4" OD X 1" THK
3					
4	###		3	EA	TIE-ROD ASSY. (ASSY. PER V049-4-124)
5	V0494A3P1		1	EA	BELLOWS ASSY. (PER SPEC V049-2-017)
6					
7					
8					



- NOTES:
12. WDS NO'S. REFER TO WELD DATA SPEC. V049-2-084.
 11. PLATES PRIOR TO ROLLING MUST HAVE DIAGONAL CORNER TO CORNER DIMENSIONS WITHIN 1/16" OF EACH OTHER.
 10. EACH FINISHED SHELL IS TO BE MARKED WITH A SEQUENTIAL PSI SERIAL NUMBER. THE NUMBER IS TO BE MADE FROM THE DRAWING PLUS THE SEQUENTIAL NUMBER. V0494A3-01, 02 ETC.
 9. TIGHTEN TIE-ROD NUTS WITH BELLOWS IN "FREE" POSITION TO 100 FT.LB PRIOR TO LEAK TEST.
 8. LEAK TEST & METHOD PER PSI SPEC. V049-2-014
 7. CERTIFIED MANUFACTURER'S MATERIAL TEST REPORTS REQUIRED, AS NOTED.
 6. BOLT HOLES OF ALL FLANGES TO STRADDLE VERTICAL CENTERLINE +/- .015.
 5. CLEAN PER SPEC. V049-2-015
 4. DO NOT USE CARBON STEEL BRUSHES OR BRUSHES CONTAMINATED WITH CARBON STEEL ON STAINLESS OR ALUMINUM MATERIAL.
 3. SPOOL FABRICATION TO BE IN ACCORDANCE WITH SPEC. V049-2-097.
 2. FOR FLANGE DETAILS SEE DWG. V049-4-081 & 070.
 1. THIS FLANGE INCLUDES AN ANNULAR CHANNEL BETWEEN O-RINGS FOR A SINGLE PUMPOUT PORT, SEE DWG V049-4-061.

RAYMOND D. CIATTO
STATE OF WASHINGTON
REGISTERED ENGINEER
15714

STATE OF LOUISIANA
RAYMOND D. CIATTO
REG. No. 26750
REGISTERED PROFESSIONAL ENGINEER
IN CIVIL ENGINEERING

EXPIRES 8/5/97

11/25/96

APPROX. WEIGHT: 1174#

0961141-02-V

SYMBOL	CHARACTERISTIC	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	REV	DESCRIPTION	DATE	BY	CHKD	DRWN	DATE	DEDR
□	FLATNESS	FUNCTIONAL ± .1	2	DESIGN UPDATE/ISSUED FOR FABRICATION	11/22/96	D.M.W	PEF	GS	RDC	REC
○	CYLINDRICITY	ANGULAR ± .001	1	DESIGN UPDATE / FABRICATION (BELLOWS ASSY. ONLY)	9/11/96	D.M.W	PEF	GS	RDC	REC
∥	PARALLELISM	TWO PLACE DECIMAL ± .01	0	ISSUED FOR FDR	4/27/96	D.M.W	PEF	GS	RDC	REC
⊥	PERPENDICULARITY	THREE PLACE DECIMAL ± .005								
∠	ANGULARITY	FINISHED SURFACE AND BREAK CORNERS TO REMOVE ALL BURRS								
⊕	TRUE POSITION	DO NOT SCALE THIS DRAWING								
⊙	CONCENTRICITY	USED ON NEXT ASSY.								

DWG. NO.	DESCRIPTION	REV.	DESCRIPTION

DWG. NO.	DESCRIPTION	REV.	DESCRIPTION

ISSUE DESCRIPTION

SCALE 1-1/2" = 1"

SHEET 1 OF 2

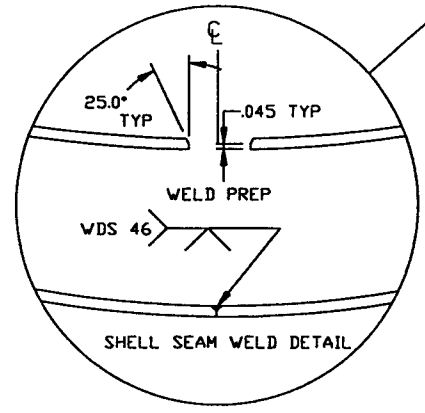
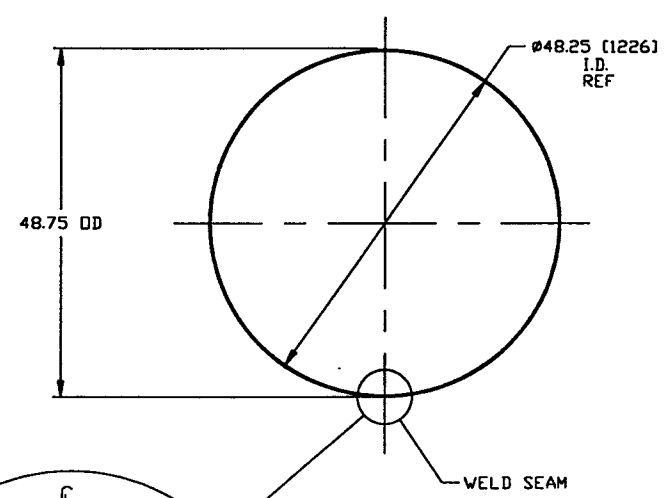
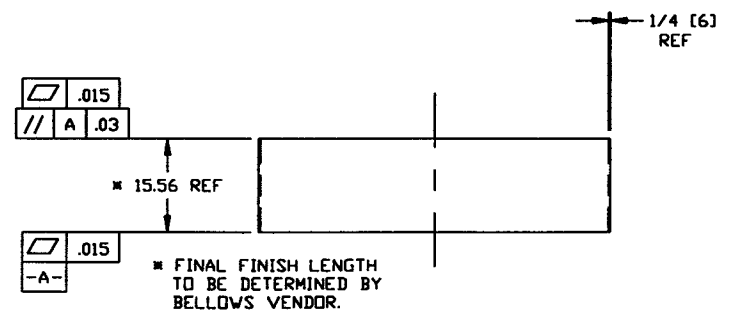
PROCESS SYSTEMS INTERNATIONAL INC.
20 WALKUP DR. WESTBOROUGH, MASSACHUSETTS 01581 USA

ADAPTER A-3
48.25" ID x 60.50" ID
LIGD VACUUM EQUIPMENT

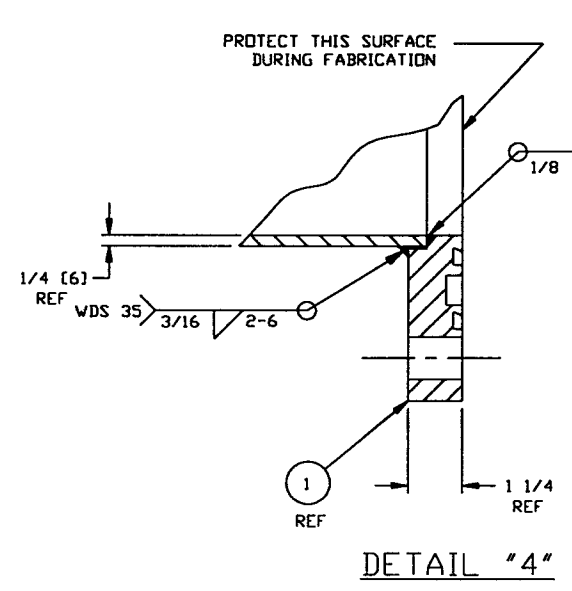
DWG. NO. V049-4-A3

SCALE 1-1/2" = 1"

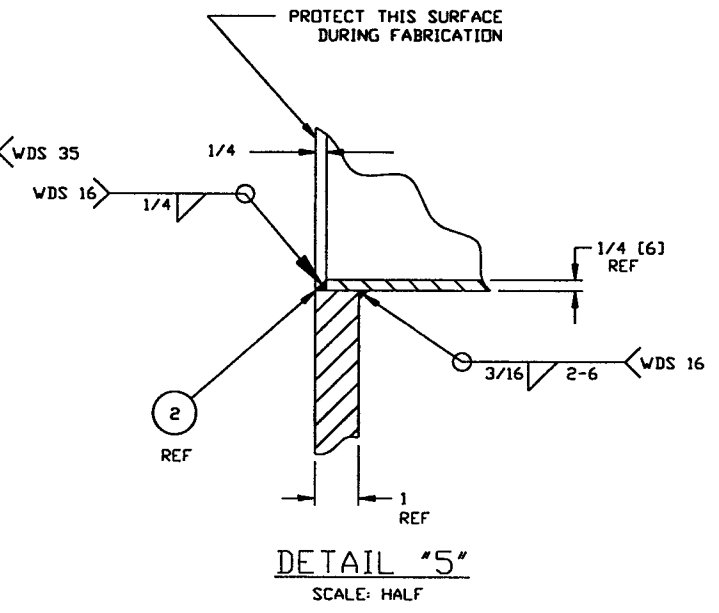
SHEET 1 OF 2



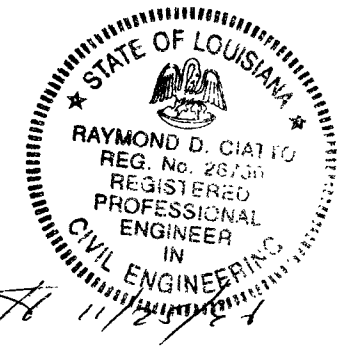
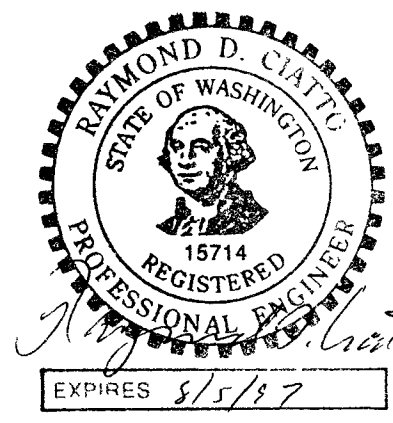
DETAIL "2"
 QTY. 2
 MAKE FROM V049M163-1



DETAIL "4"



DETAIL "5"
 SCALE: HALF



PROCESS SYSTEMS INTERNATIONAL, INC. 20 WALKUP DR. WESTBOROUGH, MASSACHUSETTS 01581 USA			
ADAPTER A-3 48.25" ID x 60.50" ID LIGD VACUUM EQUIPMENT			
CAD FILE V049A03/4A3S2	SIZE D	ENG. NO. V049-4-A3	REV 2
SCALE AS NOTED	SHEET 2 OF 2		

NOV 21 1996 - 06-0103