NOTES:

1. EACH PUMPOUT PORT LOCATION HAS BOTH POWER & CONTROL PLUG-IN CONNECTIONS.
2. ALL VACUUM GAUGES TO BE BAKED OUT AT 250 C DURING PUMPDOWN, USING A REMOVABLE BLANKET TYPE HEATER. ALL VACUUM SECTIONS SHALL ALSO BE BAKED OUT AT 150 C DURING PUMPDOWN USING A REMOVABLE BLANKET TYPE HEATER. SEE DWG. V049-0-043 FOR BAKEOUT SYSTEM.
3. DIMENSIONS IN ( ) ARE IN MILLIMETERS.
4. BEAM MANIFOLD DIMENSIONS INDICATE INSIDE DIAMETERS.
5. ATMOSPHERIC AIR INTAKE SHALL BE LOCATED IN WALL TO LVEA (DVHD).
6. BEAM MANIFOLD FLANGE ANNULUS ION PUMP DETAILS LATER.
7. ALSO ON 10" BLIND, PROVIDE 3" LONG 2 1/2" NOZZLE WITH 1 1/2" x 2 1/2" REDUCING FLANGE AND BLIND FOR RGA CONNECTION.

LIGO D961076-01-V

PROPRIETARY AND CONFIDENTIAL	V049-0-041	P & ID TURBO PUMP CART			EQUIP. THIS DWG.		UNLESS OTHERWISE SPECIFIED								
THE DOCUMENT CONTAINS PROPRIETARY INFORMATION BELONGING TO PROCESS SYSTEMS INTERNATIONAL, INC. OR ITS AFFILIATED COMPANIES AND SHALL BE USED ONLY FOR THE PURPOSE FOR WHICH IT WAS SUPPLIED. IT SHALL NOT BE COPIED, REPRODUCED OR OTHERWISE USED, NOR SHALL SUCH INFORMATION BE FURNISHED IN WHOLE OR IN PART TO OTHERS EXCEPT IN ACCORDANCE WITH THE TERMS OF ANY AGREEMENT UNDER WHICH IT WAS SUPPLIED OR WITH THE PRIOR WRITTEN CONSENT OF PROCESS SYSTEMS INTERNATIONAL, INC. AND SHALL BE RETURNED UPON REQUEST.	V049-0-012	P & ID LEFT BEAM MANIFOLD			VGV12	VTC3	DIMENSIONS ARE IN INCHES								
	V049-0-010	P & ID LEFT END STATION			VCP4		TOLERANCES: FRACTIONS ± ANGULARITY ±0°-30' BEND ±0° TWO PLACE DECIMAL ± .01 THREE PLACE DECIMAL ± .005 TURNED SURFACE RMS BREAK CORNERS TO REMOVE ALL BURRS								
	V049-0-006	P & ID 80K CRYOPUMP			VGV11										
	V049-0-002	P & ID BEAM SPLITTER CHAMBER			VBSC6										
	V049-0-001	P & ID LEGEND			VIP9										
					VGV10		DO NOT SCALE THIS DRAWING	P1	PRELIMINARY DESIGN UPDATE	REB				AFG	09.26.95	0003
	DWG. NO.	DESCRIPTION	DWG. NO.	DESCRIPTION	VCP3		USED ON	REV	DESCRIPTION				CHKD	DRWN	DATE	DCO#
	REFERENCE DRAWINGS				VGV9		NEXT ASS'Y	ISSUE DESCRIPTION								

1	ISSUED FOR FDR	REB	TJS	RT	SM	DMV	RV	04.26.96	0134
0	ISSUE FOR DESIGN	REB	TMS	RT	SM	DMV	RV	01.03.96	0031

PROCESS SYSTEMS INTERNATIONAL INC.
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PIPING & INSTRUMENTATION DIAGRAM
LIGO VACUUM EQUIPMENT
WASHINGTON SITE
LEFT MID STATION

CAD FILE: V0490011 | SIZE: D | DWG. NO.: V049-0-011 | REV.: 1
SCALE: NONE | SHEET: 1 OF 1

Apr 26, 1996 - 08:44:11