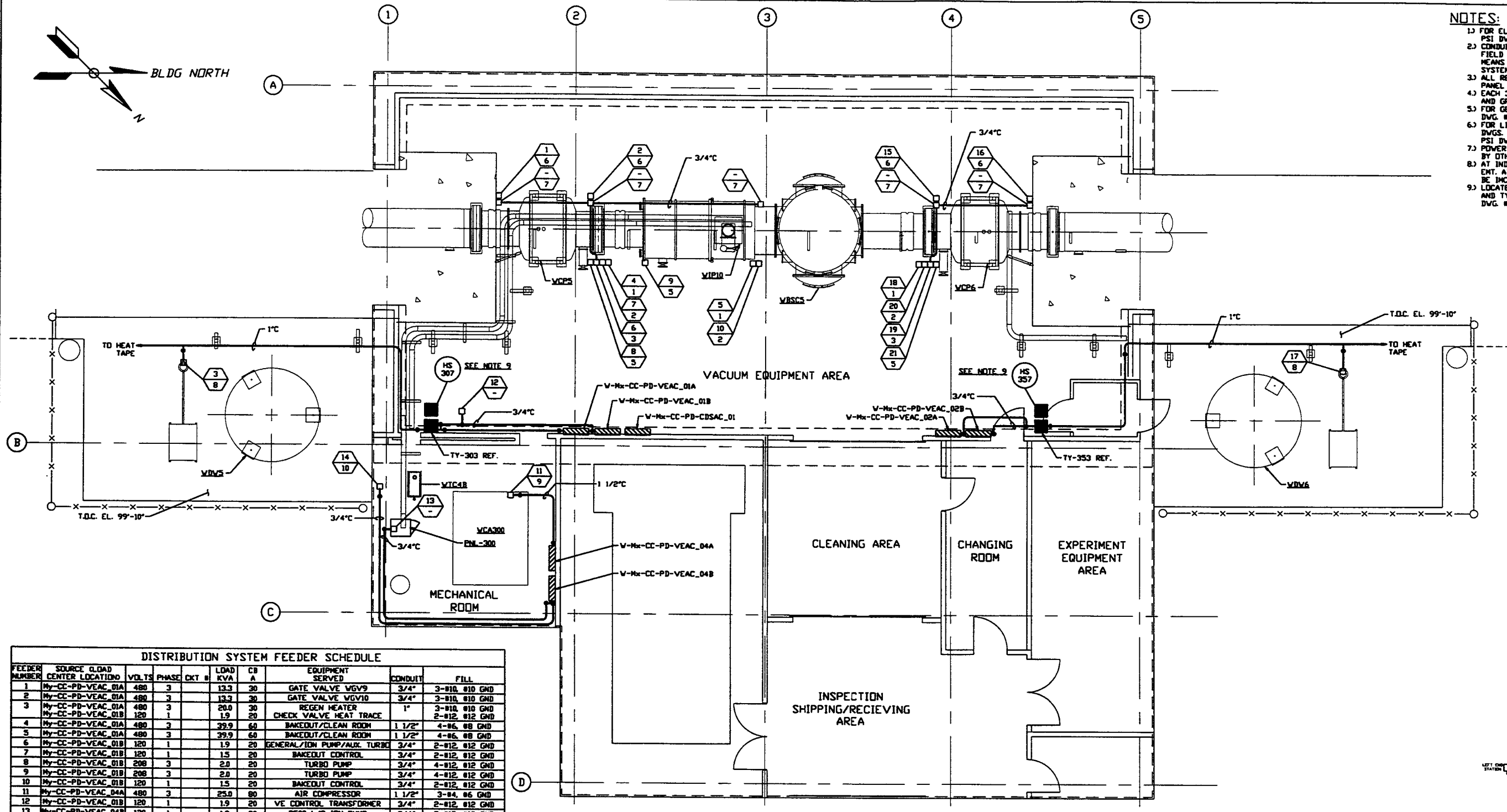
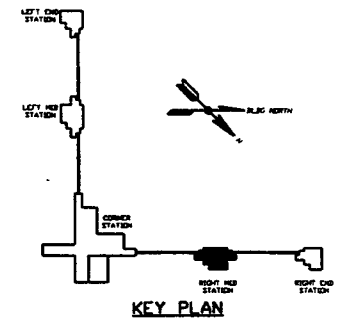


- NOTES:**
- 1) FOR ELECTRICAL INSTALLATION DETAILS SEE PSI DVG. V049-3-006.
 - 2) CONDUIT IS SHOWN DIAGRAMMATICALLY AND SHALL BE FIELD VERIFIED SO AS TO OPTIMIZE SUPPORTING MEANS AND TO AVOID INTERFERENCES WITH PIPING SYSTEMS.
 - 3) ALL RECEPTACLES SHALL BE IDENTIFIED WITH PANEL AND CKT. NUMBER.
 - 4) EACH 3Ø CIRCUIT SHALL HAVE DEDICATED NEUTRAL AND GROUND.
 - 5) FOR GENERAL NOTES & LEGEND SEE PSI DVG. #V049-3-001 SHT. 1.
 - 6) FOR LIST OF CIVIL CONTRACTOR REFERENCE DWGS. WITH CURRENT REVISIONS SEE PSI DVG. #V049-3-001 SHT. 2.
 - 7) POWER DISTRIBUTION PANELS ARE FURNISHED BY OTHERS.
 - 8) AT INDOOR INSTALLATIONS, CONDUIT SHALL BE ENT. AT OUTDOOR INSTALLATIONS, CONDUIT SHALL BE IMC.
 - 9) LOCATE HS-307 & HS-357 ADJACENT TO TY-303 AND TY-353 RESPECTIVELY. SEE DETAIL 3 ON PSI DVG. #V049-3-006 FOR INSTALLATION.



RIGHT MID STATION PLAN @ EL. 100'-0"



DISTRIBUTION SYSTEM FEEDER SCHEDULE										
FEEDER NUMBER	SOURCE	LOAD CENTER LOCATION	VOLTS	PHASE	CKT #	LOAD KVA	CB A	EQUIPMENT SERVED	CONDUIT	FILL
1	Mx-CC-PD-VEAC_01A	480	3			13.3	30	GATE VALVE VGV9	3/4"	3-#10, #10 GND
2	Mx-CC-PD-VEAC_01A	480	3			13.3	30	GATE VALVE VGV10	3/4"	3-#10, #10 GND
3	Mx-CC-PD-VEAC_01A	480	3			20.0	30	REGEN HEATER	1"	3-#10, #10 GND
4	Mx-CC-PD-VEAC_01B	120	1			1.9	20	CHECK VALVE HEAT TRACE	2-#12, #12 GND	
5	Mx-CC-PD-VEAC_01A	480	3			39.9	60	BAKEOUT/CLEAN ROOM	1 1/2"	4-#6, #8 GND
6	Mx-CC-PD-VEAC_01A	480	3			39.9	60	BAKEOUT/CLEAN ROOM	1 1/2"	4-#6, #8 GND
7	Mx-CC-PD-VEAC_01B	120	1			1.9	20	GENERAL/ION PUMP/AUX. TURBO	3/4"	2-#12, #12 GND
8	Mx-CC-PD-VEAC_01B	120	1			1.5	20	BAKEOUT CONTROL	3/4"	2-#12, #12 GND
9	Mx-CC-PD-VEAC_01B	208	3			2.0	20	TURBO PUMP	3/4"	4-#12, #12 GND
10	Mx-CC-PD-VEAC_01B	208	3			2.0	20	TURBO PUMP	3/4"	4-#12, #12 GND
11	Mx-CC-PD-VEAC_01B	120	1			1.5	20	BAKEOUT CONTROL	3/4"	2-#12, #12 GND
12	Mx-CC-PD-VEAC_04A	480	3			25.0	80	AIR COMPRESSOR	1 1/2"	3-#4, #6 GND
13	Mx-CC-PD-VEAC_01B	120	1			1.9	20	VE CONTROL TRANSFORMER	3/4"	2-#12, #12 GND
14	Mx-CC-PD-VEAC_04B	120	1			1.9	20	2500 L/S ION PUMP	3/4"	2-#12, #12 GND
15	Mx-CC-PD-VEAC_04B	208	3			4.0	30	TURBO BACKING PUMP	3/4"	4-#10, #10 GND
16	Mx-CC-PD-VEAC_02A	480	3			13.3	30	GATE VALVE VGV15	3/4"	3-#10, #10 GND
17	Mx-CC-PD-VEAC_02A	480	3			13.3	30	GATE VALVE VGV16	3/4"	3-#10, #10 GND
18	Mx-CC-PD-VEAC_02B	480	3			20.0	30	REGEN HEATER	3/4"	3-#10, #10 GND
19	Mx-CC-PD-VEAC_02B	120	1			1.9	20	CHECK VALVE HEAT TRACE	2-#12, #12 GND	
20	Mx-CC-PD-VEAC_02A	480	3			39.9	60	BAKEOUT/CLEAN ROOM	1 1/2"	4-#6, #8 GND
21	Mx-CC-PD-VEAC_02B	120	1			1.9	20	GENERAL/ION PUMP/AUX. TURBO	3/4"	2-#12, #12 GND
22	Mx-CC-PD-VEAC_02B	120	1			1.5	20	BAKEOUT CONTROL	3/4"	2-#12, #12 GND
23	Mx-CC-PD-VEAC_02B	208	3			2.0	20	TURBO PUMP	3/4"	4-#12, #12 GND

<p>PROPRIETARY AND CONFIDENTIAL</p> <p>THIS 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 FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN CONSENT OF PROCESS SYSTEMS INTERNATIONAL, INC. AND SHALL BE RETURNED UPON REQUEST.</p>		<p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES</p> <p>TOLERANCES: FRACTIONAL & DECIMALS: 1/16" - 3/32" 0.005" 0.010" 0.015" 0.020" 0.030" 0.040" 0.050" 0.060" 0.070" 0.080" 0.090" 0.100" 0.125" 0.150" 0.175" 0.200" 0.250" 0.300" 0.375" 0.450" 0.500" 0.625" 0.750" 0.875" 1.000" 1.250" 1.500" 1.750" 2.000" 2.500" 3.000" 3.500" 4.000" 4.500" 5.000" 6.000" 7.000" 8.000" 9.000" 10.000"</p> <p>DO NOT SCALE THIS DRAWING</p>		<p>ISSUE FOR CONSTRUCTION</p> <p>ISSUE FOR FDR UPDATE & BID</p> <p>ISSUE FOR FDR</p>		<p>REV 2</p> <p>REV 1</p> <p>REV 0</p>		<p>05.12.97</p> <p>11.25.96</p> <p>04.26.96</p>		<p>0480</p> <p>0355</p> <p>0129</p>		<p>0355</p> <p>0129</p> <p>0129</p>		<p>0480</p> <p>0355</p> <p>0129</p>	
<p>PROCESS SYSTEMS INTERNATIONAL, INC.</p> <p>20 WALRUP DR. WESTBOROUGH, MASSACHUSETTS 01581 USA</p>		<p>POWER PLAN</p> <p>LIGO VACUUM EQUIPMENT</p> <p>WASHINGTON SITE</p> <p>RIGHT MID STATION</p>		<p>CAD FILE: V0493304</p> <p>DATE: 05.12.97</p>		<p>SCALE: 3/16" = 1' - 0"</p>		<p>REV: 2</p>		<p>SHEET: 1 OF 1</p>		<p>PROJECT: LIGO-D960586-02-V</p>			