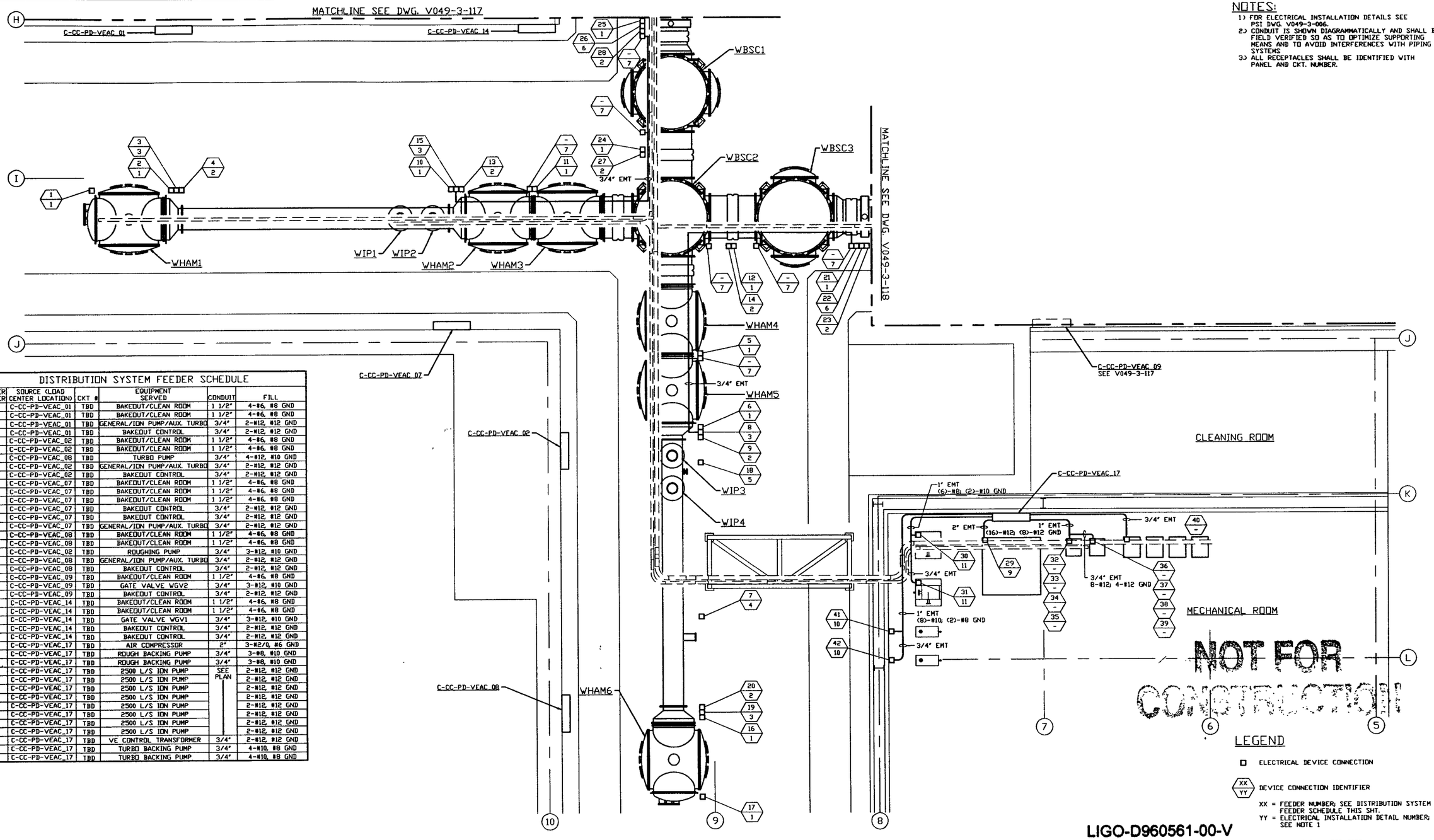

NOTES:

1) FOR ELECTRICAL INSTALLATION DETAILS SEE PSI DWG. 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.

DISTRIBUTION SYSTEM FEEDER SCHEDULE

FEEDER NUMBER	SOURCE (LOAD CENTER LOCATION)	CKT #	EQUIPMENT SERVED	CONDUIT	FILL
1	C-CC-PD-VEAC_01	TBD	BAKEOUT/CLEAN ROOM	1 1/2"	4-#6, #8 GND
2	C-CC-PD-VEAC_01	TBD	BAKEOUT/CLEAN ROOM	1 1/2"	4-#6, #8 GND
3	C-CC-PD-VEAC_01	TBD	GENERAL/ION PUMP/AUX. TURBO	3/4"	2-#12, #12 GND
4	C-CC-PD-VEAC_01	TBD	BAKEOUT CONTROL	3/4"	2-#12, #12 GND
5	C-CC-PD-VEAC_02	TBD	BAKEOUT/CLEAN ROOM	1 1/2"	4-#6, #8 GND
6	C-CC-PD-VEAC_02	TBD	BAKEOUT/CLEAN ROOM	1 1/2"	4-#6, #8 GND
7	C-CC-PD-VEAC_08	TBD	TURBO PUMP	3/4"	4-#12, #10 GND
8	C-CC-PD-VEAC_02	TBD	GENERAL/ION PUMP/AUX. TURBO	3/4"	2-#12, #12 GND
9	C-CC-PD-VEAC_02	TBD	BAKEOUT CONTROL	3/4"	2-#12, #12 GND
10	C-CC-PD-VEAC_07	TBD	BAKEOUT/CLEAN ROOM	1 1/2"	4-#6, #8 GND
11	C-CC-PD-VEAC_07	TBD	BAKEOUT/CLEAN ROOM	1 1/2"	4-#6, #8 GND
12	C-CC-PD-VEAC_07	TBD	BAKEOUT/CLEAN ROOM	1 1/2"	4-#6, #8 GND
13	C-CC-PD-VEAC_07	TBD	BAKEOUT CONTROL	3/4"	2-#12, #12 GND
14	C-CC-PD-VEAC_07	TBD	BAKEOUT CONTROL	3/4"	2-#12, #12 GND
15	C-CC-PD-VEAC_07	TBD	GENERAL/ION PUMP/AUX. TURBO	3/4"	2-#12, #12 GND
16	C-CC-PD-VEAC_08	TBD	BAKEOUT/CLEAN ROOM	1 1/2"	4-#6, #8 GND
17	C-CC-PD-VEAC_08	TBD	BAKEOUT/CLEAN ROOM	1 1/2"	4-#6, #8 GND
18	C-CC-PD-VEAC_02	TBD	ROUGHING PUMP	3/4"	3-#12, #10 GND
19	C-CC-PD-VEAC_08	TBD	GENERAL/ION PUMP/AUX. TURBO	3/4"	2-#12, #12 GND
20	C-CC-PD-VEAC_08	TBD	BAKEOUT CONTROL	3/4"	2-#12, #12 GND
21	C-CC-PD-VEAC_09	TBD	BAKEOUT/CLEAN ROOM	1 1/2"	4-#6, #8 GND
22	C-CC-PD-VEAC_09	TBD	GATE VALVE VGV2	3/4"	3-#12, #10 GND
23	C-CC-PD-VEAC_09	TBD	BAKEOUT CONTROL	3/4"	2-#12, #12 GND
24	C-CC-PD-VEAC_14	TBD	BAKEOUT/CLEAN ROOM	1 1/2"	4-#6, #8 GND
25	C-CC-PD-VEAC_14	TBD	BAKEOUT/CLEAN ROOM	1 1/2"	4-#6, #8 GND
26	C-CC-PD-VEAC_14	TBD	GATE VALVE VGV1	3/4"	3-#12, #10 GND
27	C-CC-PD-VEAC_14	TBD	BAKEOUT CONTROL	3/4"	2-#12, #12 GND
28	C-CC-PD-VEAC_14	TBD	BAKEOUT CONTROL	3/4"	2-#12, #12 GND
29	C-CC-PD-VEAC_17	TBD	AIR COMPRESSOR	2"	3-#2/0, #6 GND
30	C-CC-PD-VEAC_17	TBD	ROUGH BACKING PUMP	3/4"	3-#8, #10 GND
31	C-CC-PD-VEAC_17	TBD	ROUGH BACKING PUMP	3/4"	3-#8, #10 GND
32	C-CC-PD-VEAC_17	TBD	2500 L/S ION PUMP	SEE PLAN	2-#12, #12 GND
33	C-CC-PD-VEAC_17	TBD	2500 L/S ION PUMP		2-#12, #12 GND
34	C-CC-PD-VEAC_17	TBD	2500 L/S ION PUMP		2-#12, #12 GND
35	C-CC-PD-VEAC_17	TBD	2500 L/S ION PUMP		2-#12, #12 GND
36	C-CC-PD-VEAC_17	TBD	2500 L/S ION PUMP		2-#12, #12 GND
37	C-CC-PD-VEAC_17	TBD	2500 L/S ION PUMP		2-#12, #12 GND
38	C-CC-PD-VEAC_17	TBD	2500 L/S ION PUMP		2-#12, #12 GND
39	C-CC-PD-VEAC_17	TBD	2500 L/S ION PUMP		2-#12, #12 GND
40	C-CC-PD-VEAC_17	TBD	VE CONTROL TRANSFORMER	3/4"	2-#12, #12 GND
41	C-CC-PD-VEAC_17	TBD	TURBO BACKING PUMP	3/4"	4-#10, #8 GND
42	C-CC-PD-VEAC_17	TBD	TURBO BACKING PUMP	3/4"	4-#10, #8 GND

LEGEND

- ELECTRICAL DEVICE CONNECTION
- XX / YY — DEVICE CONNECTION IDENTIFIER
  - XX = FEEDER NUMBER; SEE DISTRIBUTION SYSTEM FEEDER SCHEDULE THIS SHT.
  - YY = ELECTRICAL INSTALLATION DETAIL NUMBER; SEE NOTE 1
- CONDUIT; SEE PLAN FOR SIZE

LIGO-D960561-00-V

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REFERENCE DRAWINGS

DWG. NO.	DESCRIPTION
V049-3-118	POWER PLAN WASHINGTON RIGHT BEAM MANIFOLD
V049-3-117	POWER PLAN WASHINGTON LEFT BEAM MANIFOLD
V049-3-006	ELECTRICAL INSTALLATION DETAILS
V049-3-005	ION PUMP CONTROLLER CABINET WIRING DIAGRAM
V049-3-002	WASHINGTON OVERALL SITE PLAN
V049-3-001	GENERAL NOTES & LEGEND

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±
ANGULARMACH ±0°-30' BEND ±0°
TWO PLACE DECIMAL ± .01
THREE PLACE DECIMAL ± .005
FINISHED SURFACE RMS
BREAK CORNERS .04 OUT.
REMOVE ALL BURRS

DO NOT SCALE THIS DRAWING
USED ON:
NEXT ASS'Y:

REV	DESCRIPTION	CHKD	DRWN	DATE	ECO#
0	ISSUE FDR FDR		D.Vaz	04.26.96	0129

ISSUE DESCRIPTION

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

POWER PLAN
LIGO VACUUM EQUIPMENT
WASHINGTON SITE
VERTEX SECTION

CAD FILE	SIZE	DWG. NO.	REV.
V0493116	D	V049-3-116	0

SCALE 3/16" = 1' - 0" SHEET 1 OF 1