JUL 14 '94 10:17

Ligo-8940023-00-B

FACSIMILE MESSAGE

CBI TECHNICAL SERVICES 1501 NORTH DIVISION STREET PLAINFIELD, ILLINOIS 60544 8929



FAX NUMBER 18: 815 439 6011 **VERIFY NUMBER IS: 815 439 6322**

PAGE: 1 **OF:** 2 DATE:

<u>July 14, 1994</u>

TO: Larry Jones

FAX NO.: 818/304/9834

Caltech

FROM: Warren A. Carpenter

RE: Qual. Test P&I

Process Engineering Department CBI Technical Services Co.

LIGO OUALIFICATION TEST

FACILITY

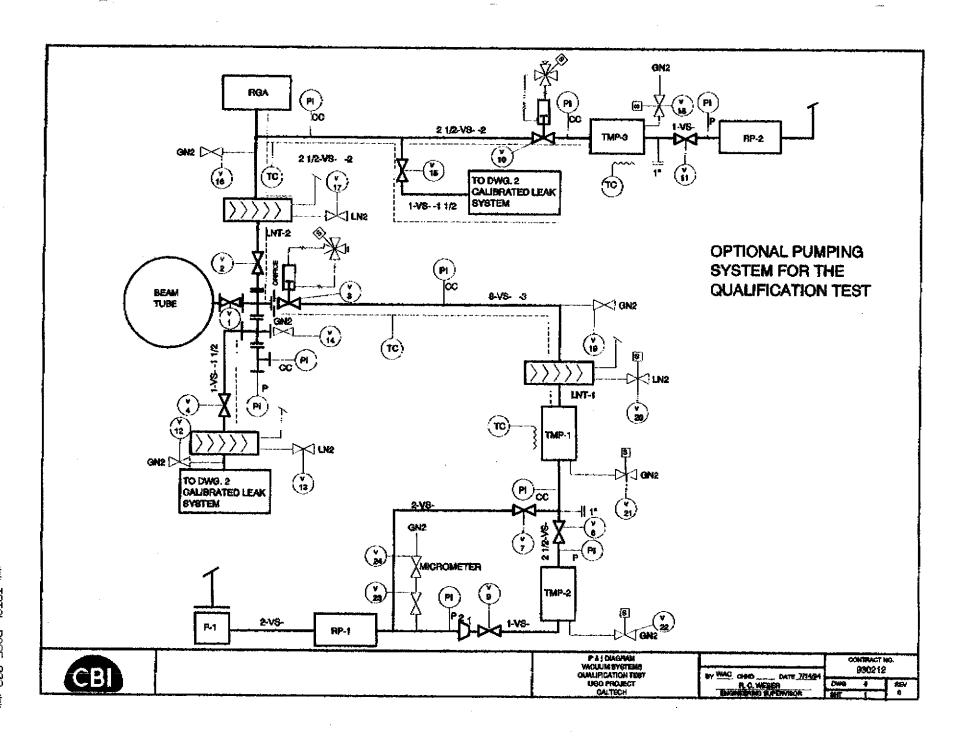
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Attached is a P&I of a revised pumping system for the RGA on the qual, test system which reduces the length of the 2 1/2 " line to 32 inches. In addition, the conductance of the system is somewhat larger than calculated because this distance includes the LN2 trap which has a large conductance. Please have Rai review this layout. We are trying to provide a good quality system but we are also trying to use the fittings that are already purchased in order to prevent a schedule change which would happen if we had to repurchase some of the fittings. The fittings (such as crosses and tees which are not in stock can take up to 3-4 weeks to receive).

Let us know what Rai recommends.

Regards,

Warren A. Carpenter Senior Engineer



** TOTAL PAGE.002 *