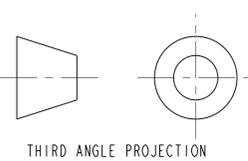
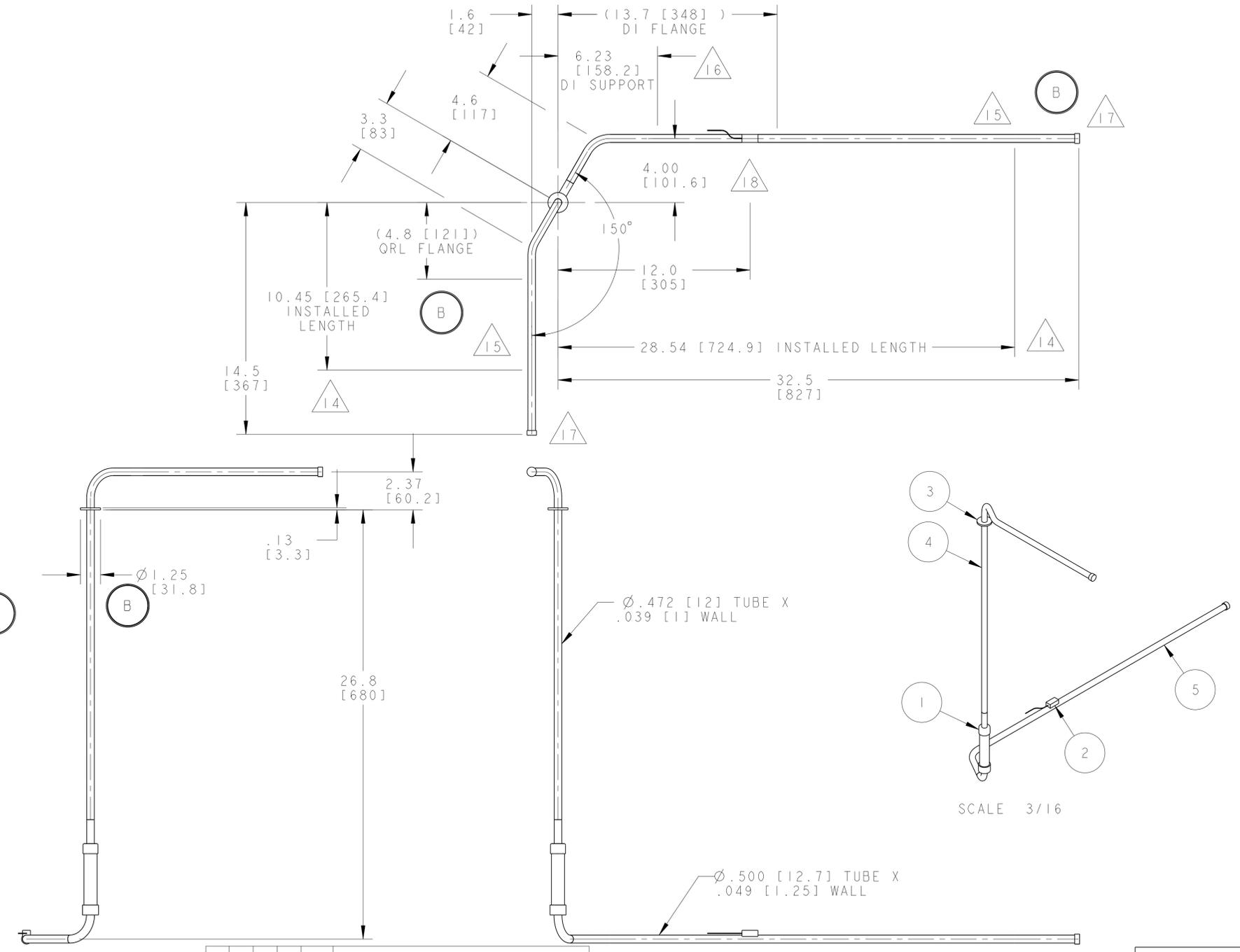


NOTES: (UNLESS OTHERWISE SPECIFIED)

- THIS IS A CRYOGENIC VACUUM COMPONENT.
- WELDING PROCEDURE: PER VENDOR SPECIFICATION WITH LBNL APPROVAL.
- CLEANING PROCEDURE: PER VENDOR SPECIFICATION WITH LBNL APPROVAL.
- PACKAGING AND STORAGE PROCEDURE OF THE COMPONENTS: PER VENDOR SPECIFICATION WITH LBNL APPROVAL.
- DIMENSIONS AND TOLERANCING PER ANSI Y14.5M-1982. UNITS ARE IN INCHES [mm] UNLESS OTHERWISE SPECIFIED.
- USE OF SULFUR OR SILICONE BEARING OILS, LUBRICANTS, OR COOLANTS ARE STRICTLY PROHIBITED.
- USE OF RESIN OR RUBBER BONDED ABRASIVES UNDER POWER IS STRICTLY PROHIBITED. USE VITREOUS BONDED ABRASIVES ONLY.
- VENDOR SUGGESTED CHANGES TO WELD PREPS; SUBJECT TO LBNL APPROVAL.
- FITTINGS MAY BE USED IN PLACE OF BENDS; SUBJECT TO LBNL APPROVAL.
- VENDOR SUGGESTED CHANGES TO TOLERANCES TO FACILITATE FABRICATION OR ASSEMBLY; SUBJECT TO LBNL APPROVAL.
- REMOVE ALL THE BURRS AND REAM THE ENDS FOR CIRCULARITY AND CLEAN ENDS.
- TUBE END SURFACE MUST BE PERPENDICULAR TO THE TUBE AXIS WITHIN +/- .010.
- PERFORM ACCEPTANCE TESTS PER LBNL SPECIFICATION M989.
- A MARK DESIGNATING THE INSTALLED LENGTH WILL BE UTILIZED DURING FINAL INSTALLATION OF THE FEEDBOX ASSEMBLY. MARK, SCRIBE OR ETCH THIS LOCATION IN A PERMANENT MANNER, SUBJECT TO LBNL APPROVAL, TO AN ACCURACY OF ±0.063".
- PROVIDE A MINIMUM LENGTH OF 4.0" OF STRAIGHT, SMOOTH PIPE ON THE INDICATED SIDE OF THE INSTALLED LENGTH MARK FOR PIPE WELDING DURING FINAL INSTALLATION OF THE FEEDBOX ASSEMBLY.
- PIPE MUST BE STRAIGHT AND SMOOTH (NO BUMPS) FOR 1.5" ON EITHER SIDE OF THE CENTER-PLANE OF THE SUPPORT.
- CAP BOTH ENDS OF PIPE TO FACILITATE ACCEPTANCE TESTS.
- INSTALL TEMPERATURE SENSOR PER LHC SPECIFICATION LHC-QIT-ES-0002. SENSOR TO BE PROVIDED BY LBNL.

ITEM	PART NO	REQD	DESCRIPTION	MATERIAL
5	-	I	TUBE, PER ASTM A269	SS 304L
4	-	I	TUBE, PER ASTM A269	SS 304L
3	-	I	FLANGE	SS 304L
2	-	I	CERNOX - TT813, TEMP SENSOR	-
1	-	I	BRAIDED FLEX HOSE, 1/2" ID X 4" LL	SS 300 SERIES



REV	DWG	CHK	ZONE	DATE	CHANGES
B	RLM	DPO		11-20-02	CHANGED FLANGE DIAMETER, ADDED ORL FLANGE CALLOUT, ADDED NOTE 15 CALLOUT TO VIEW, CHANGED DESCRIPTION OF BOM ITEMS 4 & 5, DELETED DIM (). REVISED DWG NOTES 13, 16 & 17, MINOR DRAWING DIMENSIONAL CHANGES
A	ARH	DPO		9-17-02	INITIAL RELEASE

TOLERANCES		SHOP ORDERS	
X.X ± 0.1	FRAC. ± 1/64	ACCT NO.	SER. NO.
X.XX ± 0.03	Angles ± 1.00°	NO. REQD.	DATE ISSD.
X.XXX ± 0.010	FINISH 125 \sqrt{Ra}	DEL. DATE	DATE REQD.

**ERNEST ORLANDO LAWRENCE
BERKELEY NATIONAL LABORATORY**
UNIVERSITY OF CALIFORNIA - BERKELEY

LHC IR FEEDBOX
CRYOGENICS
PIPE, CY2

MICROFILMED: [] DWG. TYPE: ASSEM SHOWN ON: [] SCALE: 1/4 DO NOT SCALE PRINTS

DESIGN ACCT. NO. Z5LCE2 CATEGORY CODE LH2003 DWG. NO. 2512154 SIZE B REV. []