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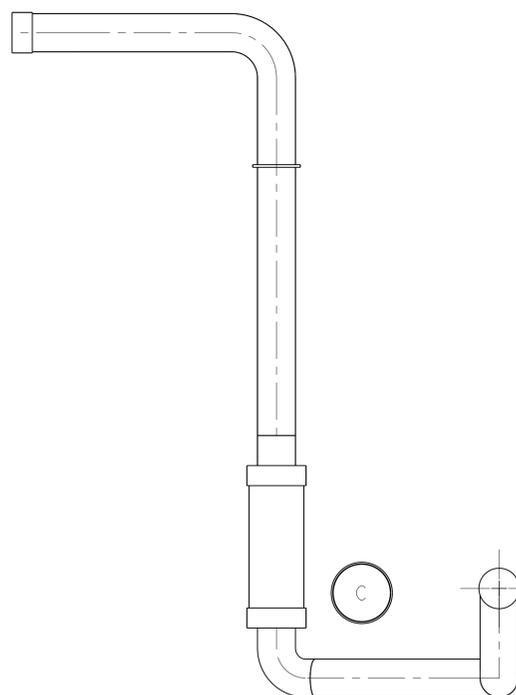
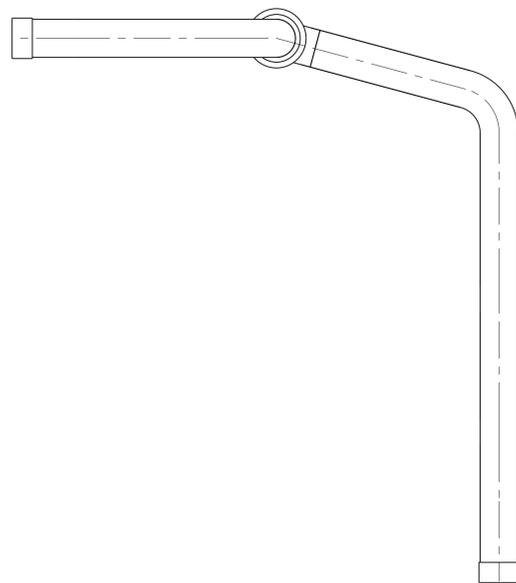
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DWG. NO. 2512464 SIZE REV. C 1 SH.

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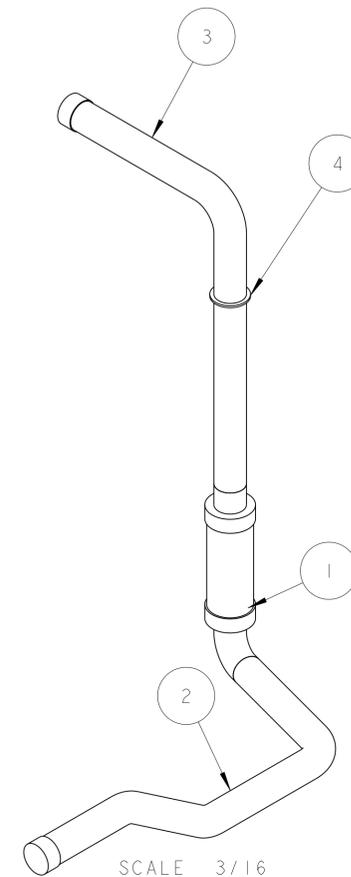
NOTES: (UNLESS OTHERWISE SPECIFIED)

- 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. (B)
- 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". (B)
- 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. (B)
- CAP BOTH ENDS OF PIPE TO FACILITATE ACCEPTANCE TESTS. (B)

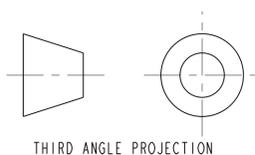


(C) Ø1.50 PIPE SCH 5S
 (Ø1.900 [48.26] OD X
 .065 WALL)
 [1.65]

ITEM	PART NO	REQD	DESCRIPTION	MATERIAL
4	-	I	SUPPORT FLANGE	SS 304L
3	-	I	PIPE, PER ASTM A312	SS 304L
2	-	I	PIPE, PER ASTM A312	SS 304L
1	-	I	BRAIDED FLEX HOSE, 2" ID X 6.1 L	SS 300 SERIES



***** FOR ADDITIONAL TUBE DIMENSIONS, SEE SHEET 2**



REV	DWG	CHK	ZONE	DATE	CHANGES
C	RLM	JPZ		4/3/03	REROUTE, R2.25 WAS R3.5, PIPE CALL OUT
B	ARH	SPV		01/08/03	REVISED DRAWING NOTES 13, 16 & 17, ADDED CERN BOX TO SHEET 2, MINOR DRAWING DIMENSIONAL CHANGES.
A	ARH	SPV		11-06-02	INITIAL RELEASE

TOLERANCES	UNLESS OTHERWISE SPECIFIED	SHOP ORDERS	SER. NO.
X.X ± 0.1	FRAC. ± 1/64	ACCT. NO.	NO.
X.XX ± 0.03	Angles ± 1.00°	DEL. DATE	ISSD. DATE
X.XXX ± 0.010	FINISH 125 _{µm}	DATE RECD.	DATE RECD.

PROJECT	PROJECT NUMBER	PROJECT NAME	DATE
N/A	N/A	N/A	12-Dec-01
BY: R LA MANTIA	DATE: 05-Nov-02	DATE: 05-Nov-02	DATE: 05-Nov-02
CHK: Jon Zbasnik/S.Virostek	DATE: 05-Nov-02	DATE: 05-Nov-02	DATE: 05-Nov-02
APP: Jon Zbasnik/S.Virostek	DATE: 05-Nov-02	DATE: 05-Nov-02	DATE: 05-Nov-02

ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY			
UNIVERSITY OF CALIFORNIA - BERKELEY			
LHC IR FEEDBOX CRYOGENICS PIPE, LDI			
MICROFILMED:	DWG. TYPE	SHOWN ON	SCALE: 7/32
	ASSEM	-	DO NOT SCALE PRINTS
PATENT CLEAR:	DESIGN ACCT. NO.	CATEGORY CODE	DWG. NO. 2512464
Z5LCE2	LH2003		SIZE REV. C

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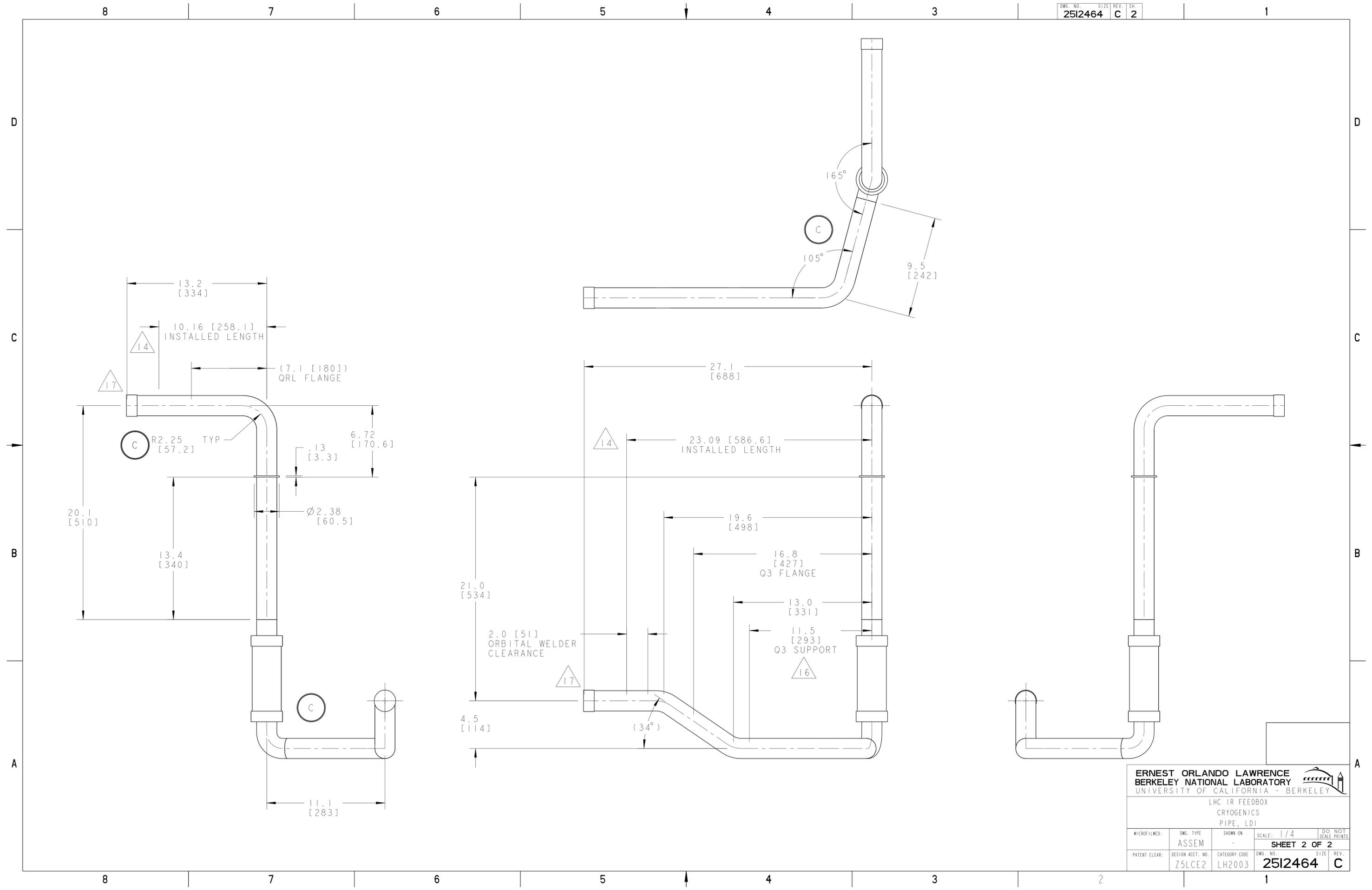
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ERNEST ORLANDO LAWRENCE
BERKELEY NATIONAL LABORATORY
 UNIVERSITY OF CALIFORNIA - BERKELEY

LHC IR FEEDBOX
CRYOGENICS
PIPE, LDI

MICROFILMED:	DWG. TYPE ASSEM	SHOWN ON -	SCALE: 1/4	DO NOT SCALE PRINTS
PATENT CLEAR:	DESIGN ACCT. NO. Z5LCE2	CATEGORY CODE LH2003	SHEET 2 OF 2 DWG. NO. 2512464 SIZE C REV.	