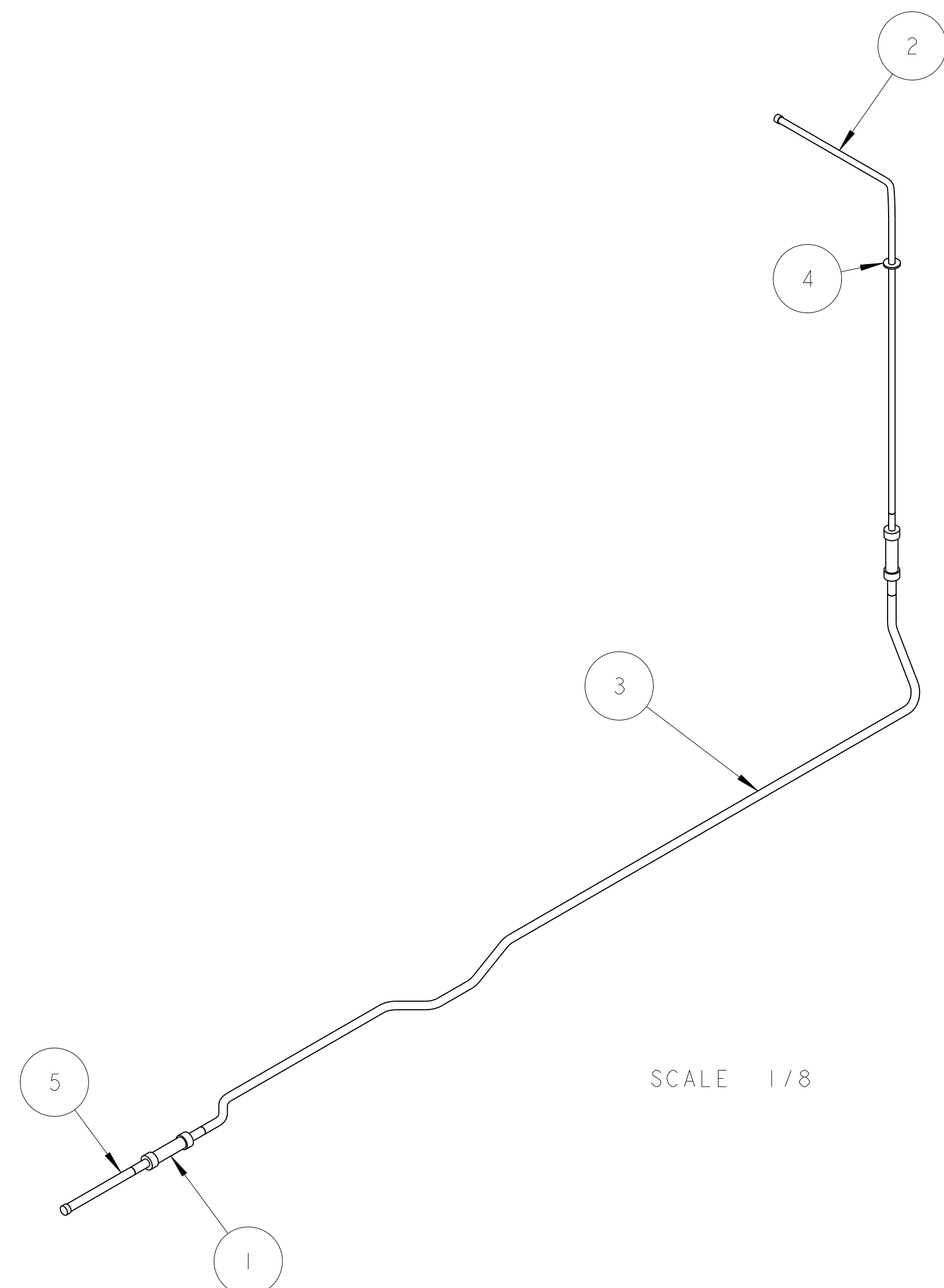


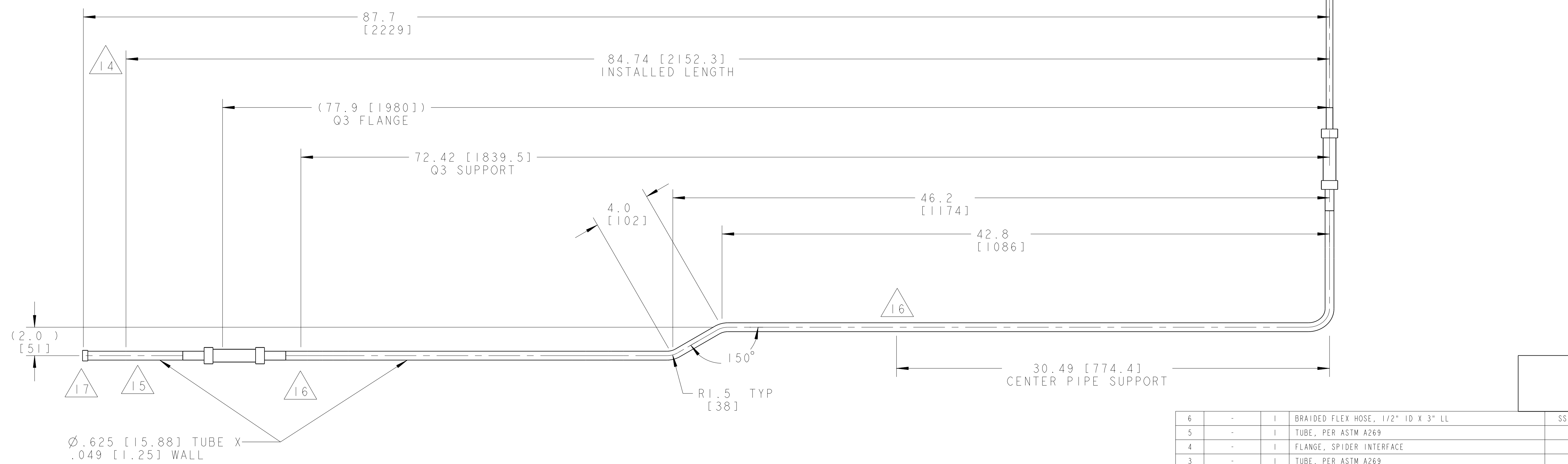
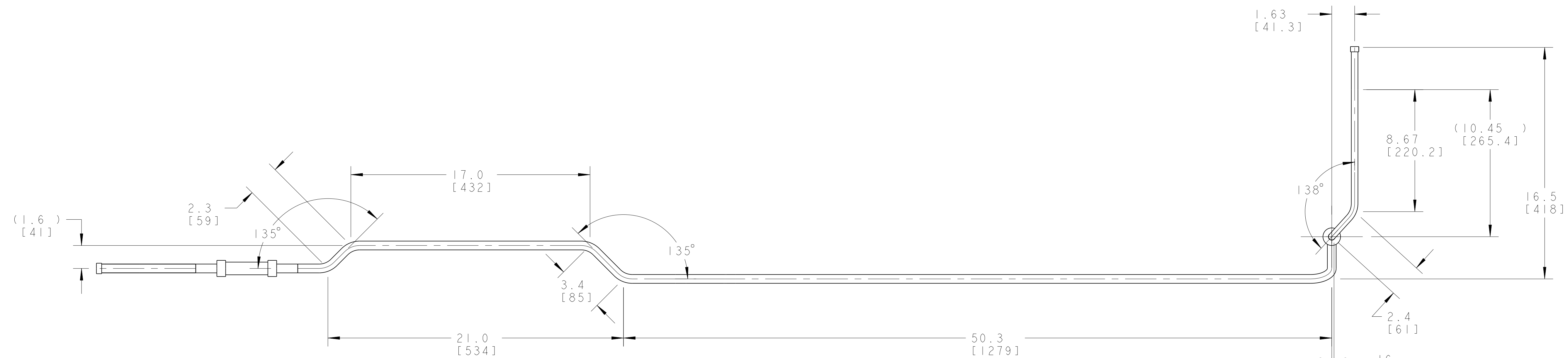
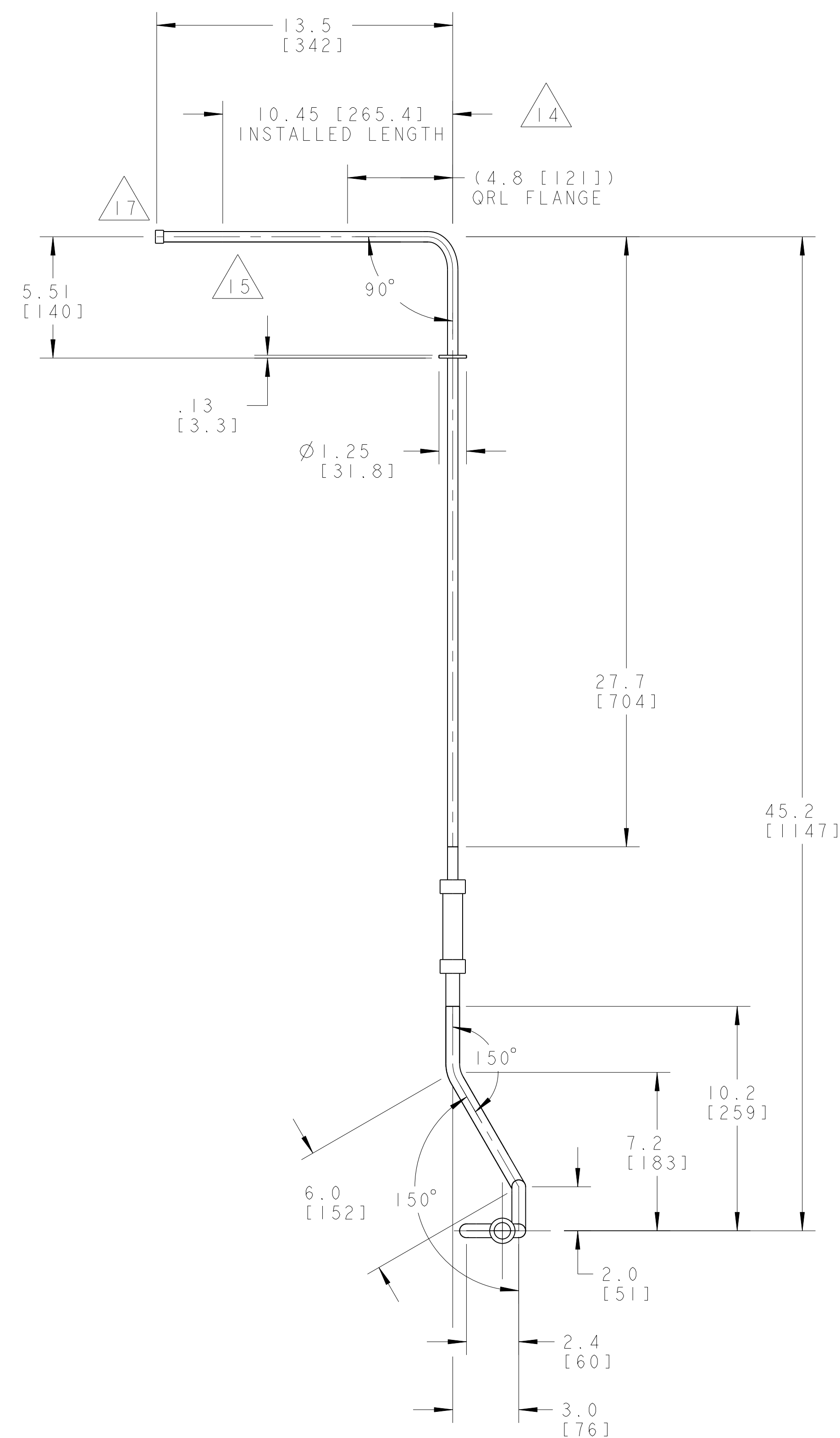
NOTES: (UNLESS OTHERWISE SPECIFIED)

- 1. THIS IS A CRYOGENIC VACUUM COMPONENT.
- 2. WELDING PROCEDURE: PER VENDOR SPECIFICATION WITH LBNL APPROVAL.
- 3. CLEANING PROCEDURE: PER VENDOR SPECIFICATION WITH LBNL APPROVAL.
- 4. PACKAGING AND STORAGE PROCEDURE OF THE COMPONENTS: PER VENDOR SPECIFICATION WITH LBNL APPROVAL.
- 5. DIMENSIONS AND TOLERANCING PER ANSI Y14.5M-1982. UNITS ARE IN INCHES [mm] UNLESS OTHERWISE SPECIFIED.
- 6. USE OF SULFUR OR SILICONE BEARING OILS, LUBRICANTS, OR COOLANTS ARE STRICTLY PROHIBITED.
- 7. USE OF RESIN OR RUBBER BONDED ABRASIVES UNDER POWER IS STRICTLY PROHIBITED. USE VITREOUS BONDED ABRASIVES ONLY.
- 8. VENDOR SUGGESTED CHANGES TO WELD PREPS; SUBJECT TO LBNL APPROVAL.
- 9. FITTINGS MAY BE USED IN PLACE OF BENDS; SUBJECT TO LBNL APPROVAL.
- 10. VENDOR SUGGESTED CHANGES TO TOLERANCES TO FACILITATE FABRICATION OR ASSEMBLY; SUBJECT TO LBNL APPROVAL.

- 11. REMOVE ALL THE BURRS AND REAM THE ENDS FOR CIRCULARITY AND CLEAN ENDS.
- 12. TUBE END SURFACE MUST BE PERPENDICULAR TO THE TUBE AXIS WITHIN +/- .010.
- 13. PERFORM ACCEPTANCE TESTS PER SECTION 3.2 OF LBNL SPECIFICATION M856.
- 14. 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".
- 15. 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.
- 16. PIPE MUST BE STRAIGHT AND SMOOTH (NO BUMPS) FOR 0.5" ON EITHER SIDE OF THE CENTER-PLANE OF THE SUPPORT.
- 17. CAP BOTH ENDS OF PIPE AFTER ACCEPTANCE TESTS PER SECTION 3.2 OF LBNL SPECIFICATION M856.



SCALE 1/8

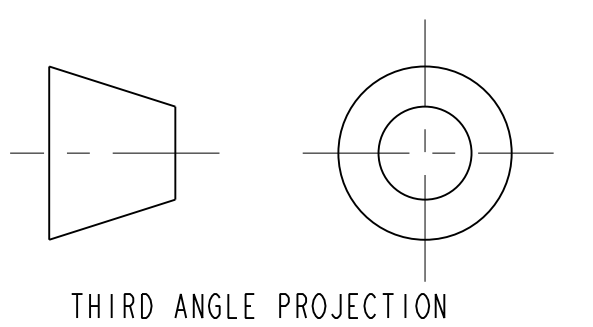


ITEM	PART NO	REQD	DESCRIPTION	MATERIAL
6	-	1	BRAIDED FLEX HOSE, 1/2" ID X 3' LL	SS 304 SERIES
5	-	1	TUBE, PER ASTM A269	SS 304L
4	-	1	FLANGE, SPIDER INTERFACE	SS 304L
3	-	1	TUBE, PER ASTM A269	SS 304L
2	-	1	TUBE, PER ASTM A269	SS 304L
1	-	1	BRAIDED FLEX HOSE, 1/2" ID X 3' LL	SS 304 SERIES

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1	-	1	BRAIDED FLEX HOSE, 1/2" ID X 3' LL	SS 304 SERIES



REV	DWG	CHK	ZONE	DATE	DESCRIPTION
A	ARH	SPY		11-01-02	INITIAL RELEASE
					CHANGES

UNLESS OTHERWISE SPECIFIED
 TOLERANCES: X.X ± 0.1 FRACTION ± 1/64
 X.XX ± 0.03 ANGLES ± 1.0°
 SURFACE FINISH: X.XXX ± 0.010
 DO NOT SCALE PRINT
 THREADS ARE CLASS 2
 CHAMFER ENDS OF ALL SCREW THREADS 30°
 CUT ROUNDS, 1.5 THREAD RELIEF ON MACHINED THREADS
 BREAK EDGES - 1/16 MAX. ON MACHINED WORK
 REMOVE BURRS, WELD SPATTER & LOOSE SCALE
 IN ACCORDANCE WITH ASME B1.1.3M & B.1.4.1

SHOP ORDERS

NO.	DATE	BY	REASON

ERNEST ORLANDO LAWRENCE
 BERKELEY NATIONAL LABORATORY
 UNIVERSITY OF CALIFORNIA BERKELEY

LHC IR FEEDBOX
 CRYOGENICS
 PIPE, CC2

DWG. TYPE: ASSEM
 SCALE: 1/4
 SHEET 1 OF 1

REVISED: 13-Dec-01
 DRAWN BY: J. Zbasnik/S. Wierzbicki
 CHECKED BY: J. Zbasnik/S. Wierzbicki
 DATE: 01-Nov-02
 PATENT CLEAR: Z5LCE2
 REVISION NO.: LH2003
 CATEGORY CODE: 2515296
 DWG. NO.: 2515296
 SIZE: A