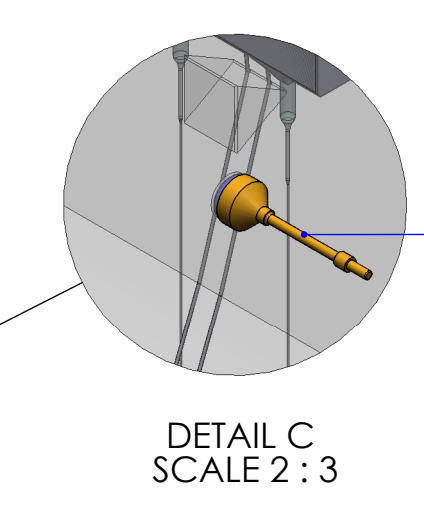
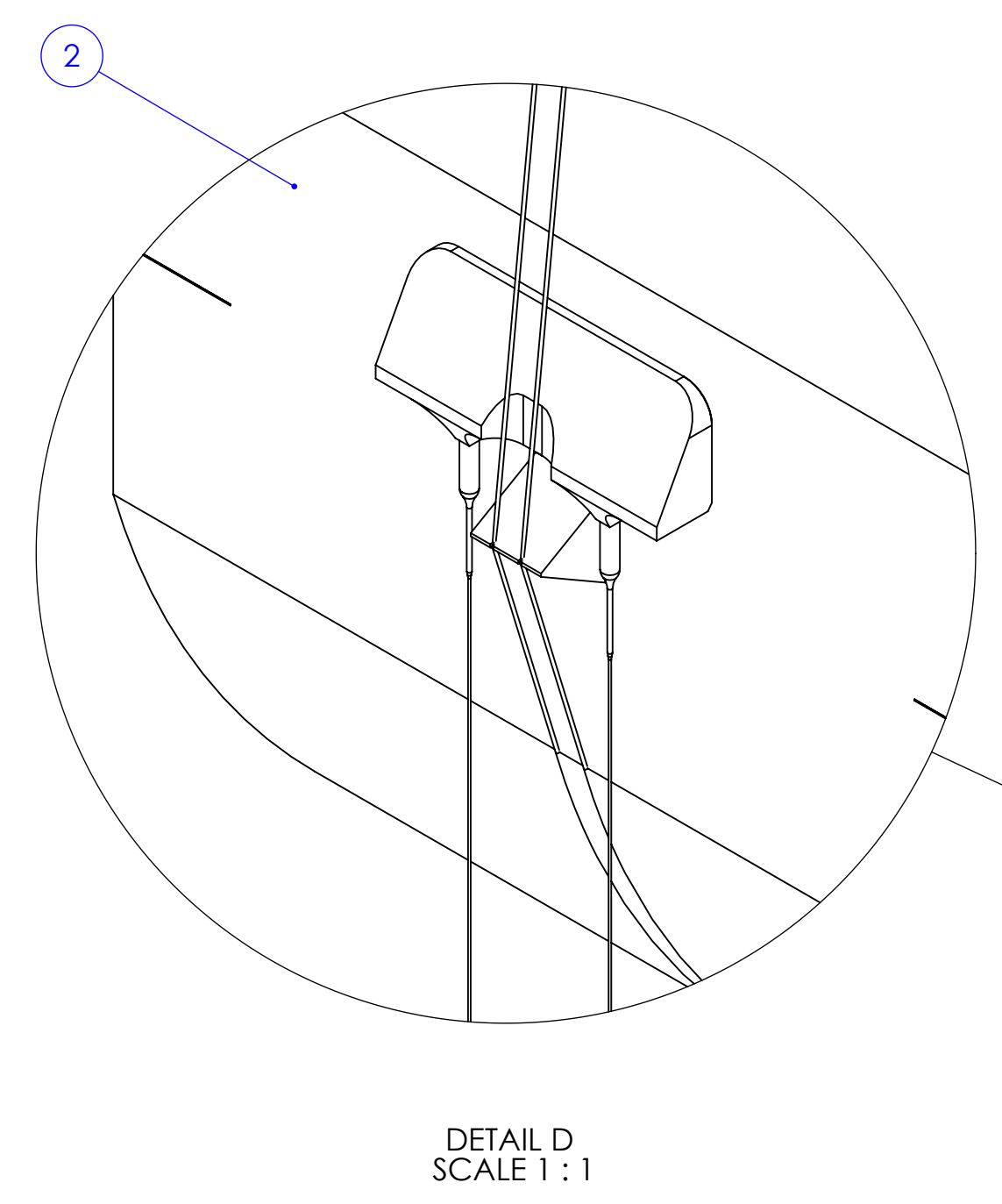
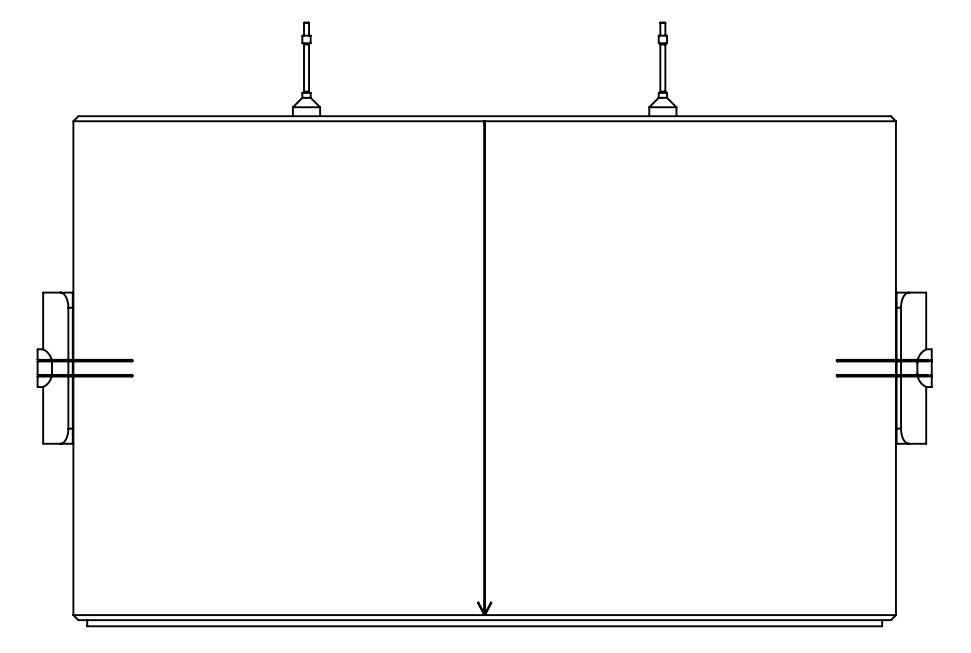
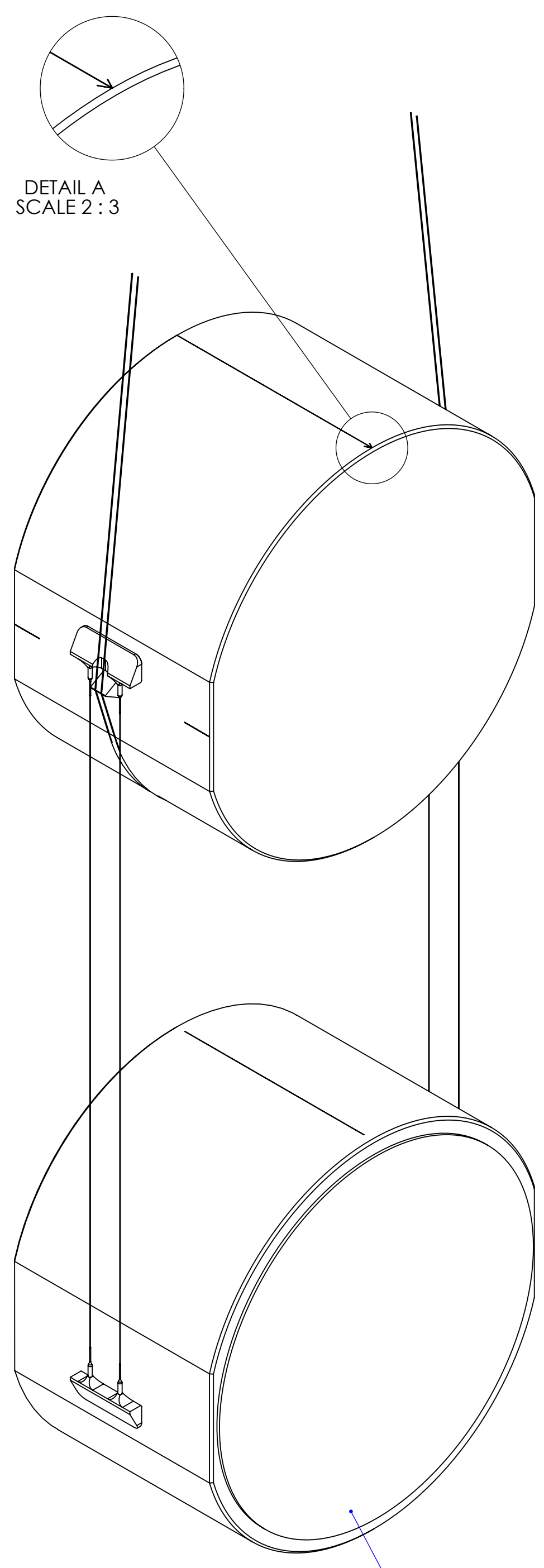


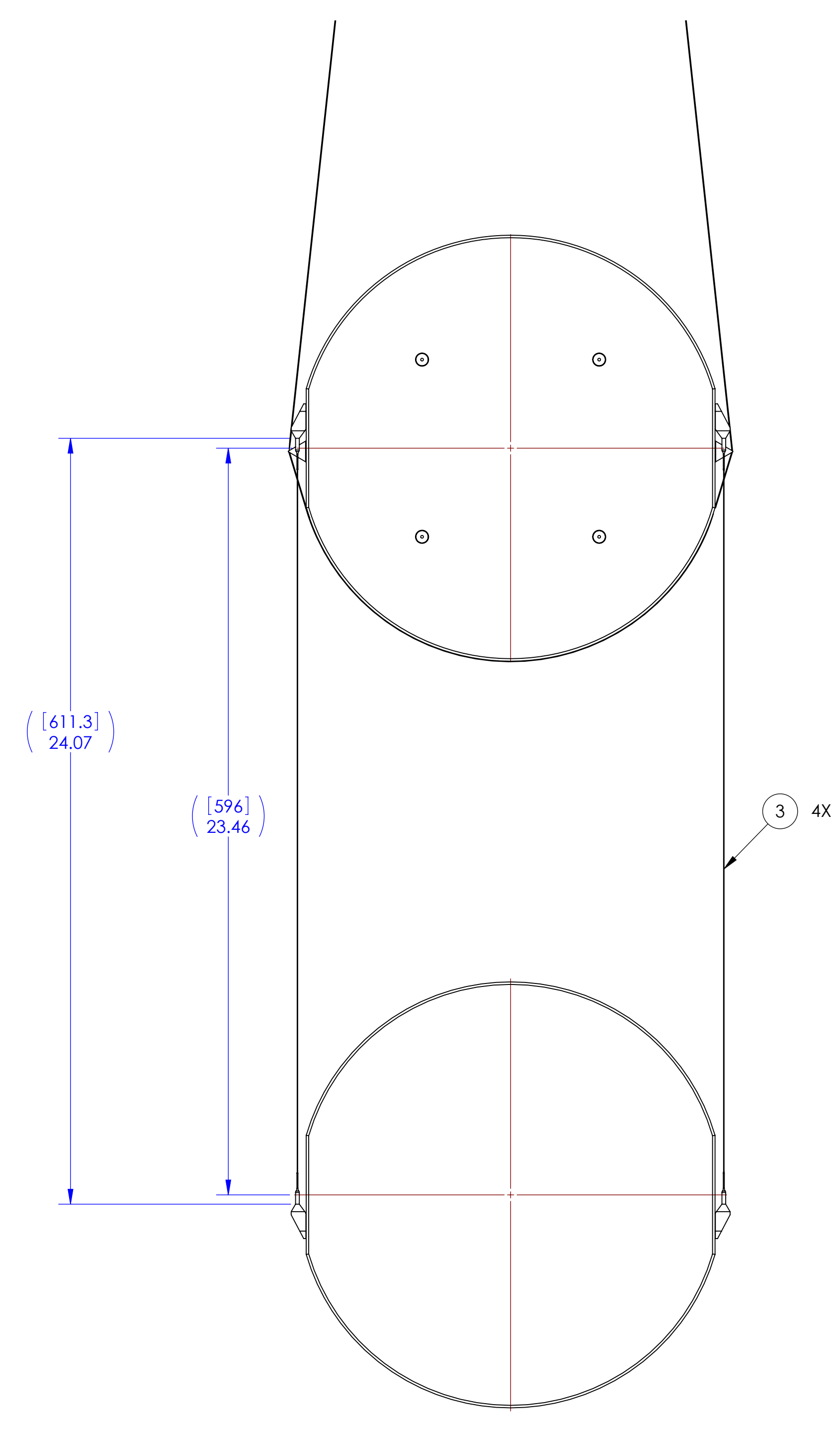
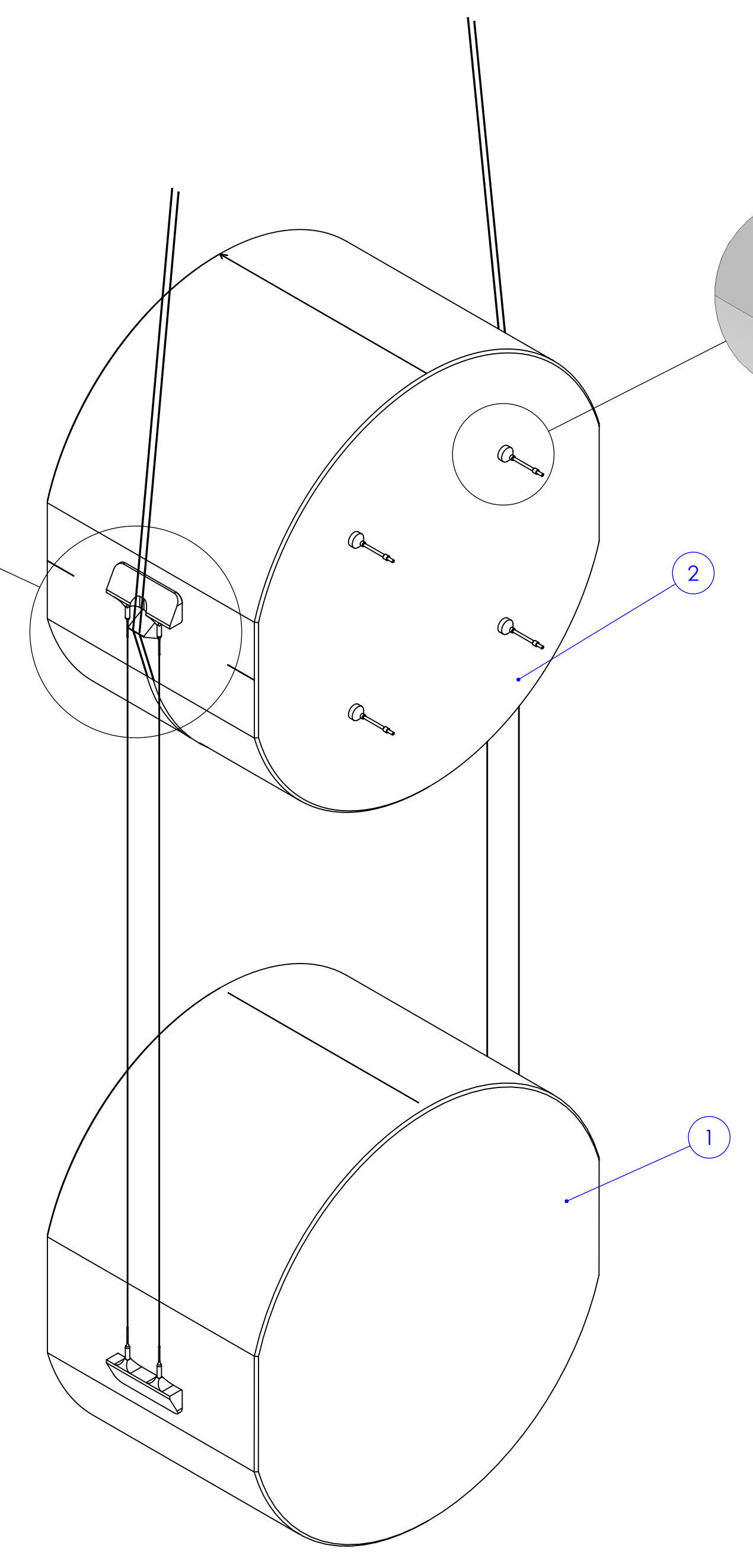
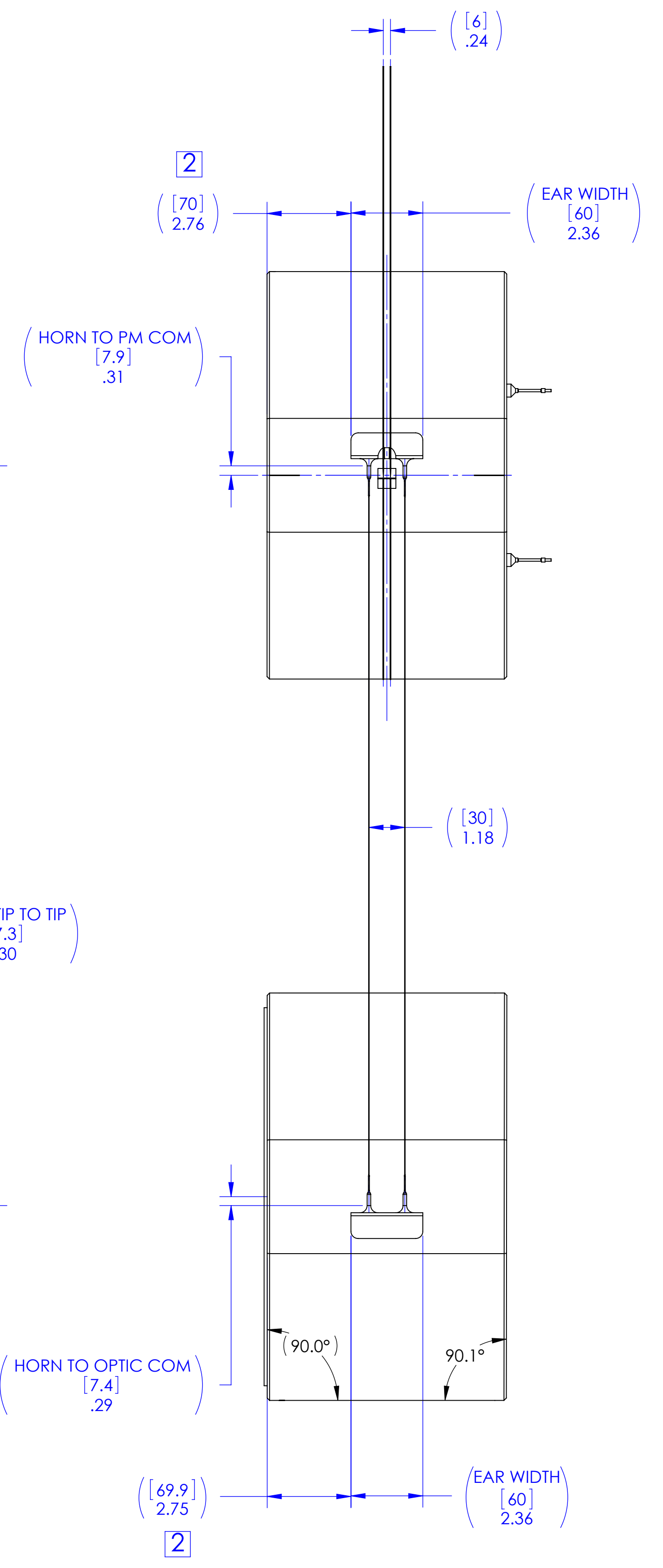
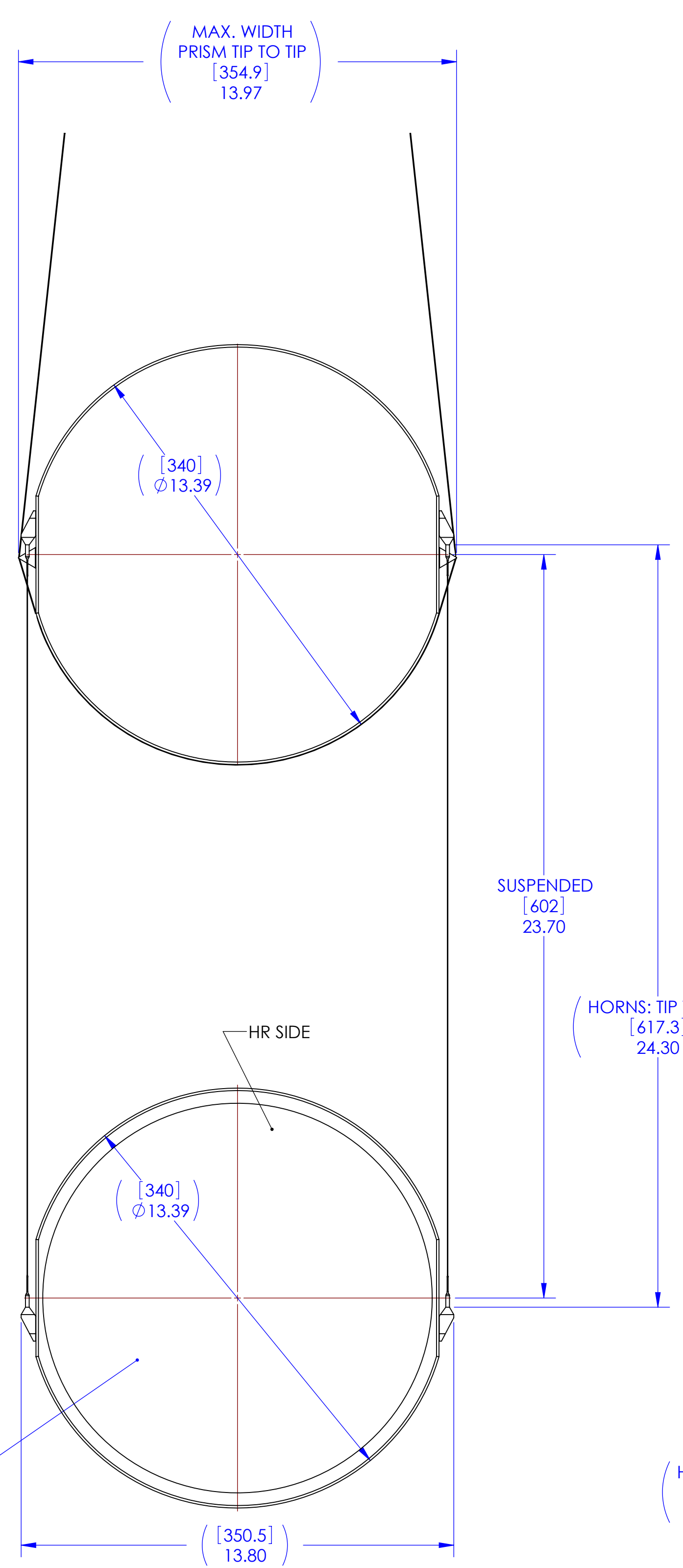
REV.	DATE	DCN #	DRAWING TREE #
v3	03 JAN 2014	-	-
v4	05 MAR 2014	E1300970-x0	-
-	-	-	-

SITE	INTERFEROMETER	CHAMBER	OPTIC NAME	SERIAL #
LHO	H1	BSC1	ITMY	ITM11
		BSC3	ITMX	ITM03
		BSC3	ITMX	ITM03
LLO	L1	BSC1	ITMY	ITM08
		BSC3	ITMX	ITM04
		BSC3	ITMX	ITM04

NOTE: TABLE DATA EXTRACTED FROM LIGO NEBULA PAGE. REFER TO NOTE 1 FOR DETAILS.

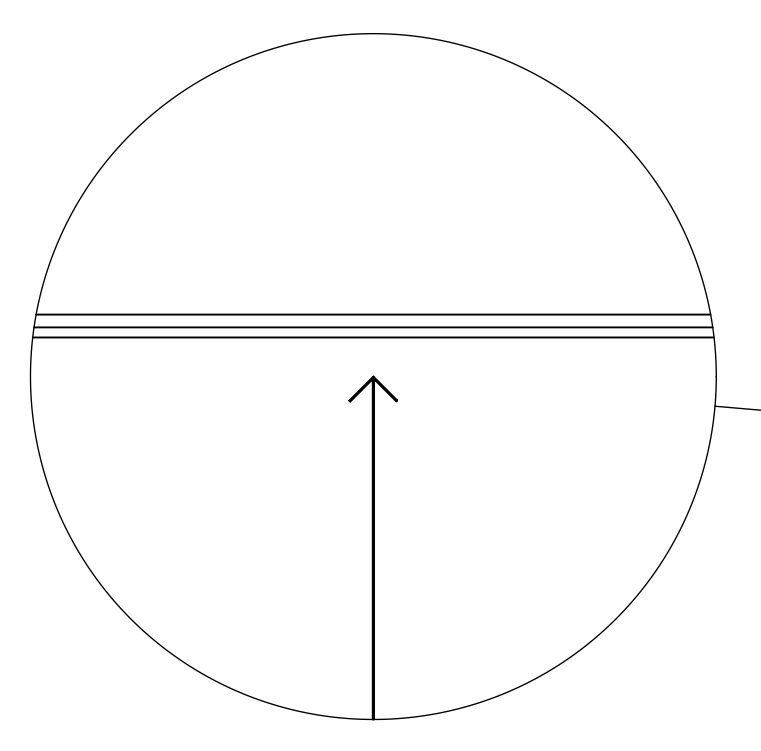


MAGNET BASE BONDED INTO RECESS (X4) ASSEMBLED AT LOWER LEVEL ASSY.



WELDING POSITIONS: MASS TO MASS SEPARATION AND LENGTH OF FIBRE

SUSPENDED POSITIONS: MASS TO MASS SEPARATION AND LENGTH OF FIBRE



MINIMUM PART THICKNESS OF OPTIC AT THE LOWEST POINT (I.E. WEDGE UP)

2] TEST MASS EARS ARE POSITIONED CENTERED BETWEEN S1 AND S2 ON ETMs, ITMs, AND PUMS. THE INDICATED DISTANCE BETWEEN THE EAR AND THE FACE OF THE OPTIC DIFFER BECAUSE THE WIDTH OF THE ITM VARIES SLIGHTLY FROM THE WIDTH OF THE PUM DUE TO THE WEDGE ANGLE BETWEEN S1 AND S2.

1] FOR COC PM SERIAL NO. DETAILS, PLEASE REFER TO COC NEBULA PAGE AT: <https://galaxy.ligo.caltech.edu/optics/>

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONS ARE IN INCHES [MM]

MATERIAL: N/A

FINISH: N/A

SCALE: 1:4

PROJECTION:

CALIFORNIA INSTITUTE OF TECHNOLOGY  
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

ADVANCED LIGO SUB-SYSTEM SUS

gLIGO, SUS, ITM PRODUCTION MONOLITHIC ASSEMBLY

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
3	D1001024	gLIGO, SUS, ETM/ITM QUAD, SILICA FIBRE	4
2	D1001035	ITM Penultimate Mass (PM) WITH PRISMS AND EARS	1
1	D0902456	ITM OPTICS WITH EARS ASSEMBLY	1

DESIGNER: UK/JUS  
DRAFTER: R.JONES  
CHECKER: A.BELL  
APPROVAL:

SIZE DWG. NO. E D1000760

REV. v4

SHEET 1 OF 1