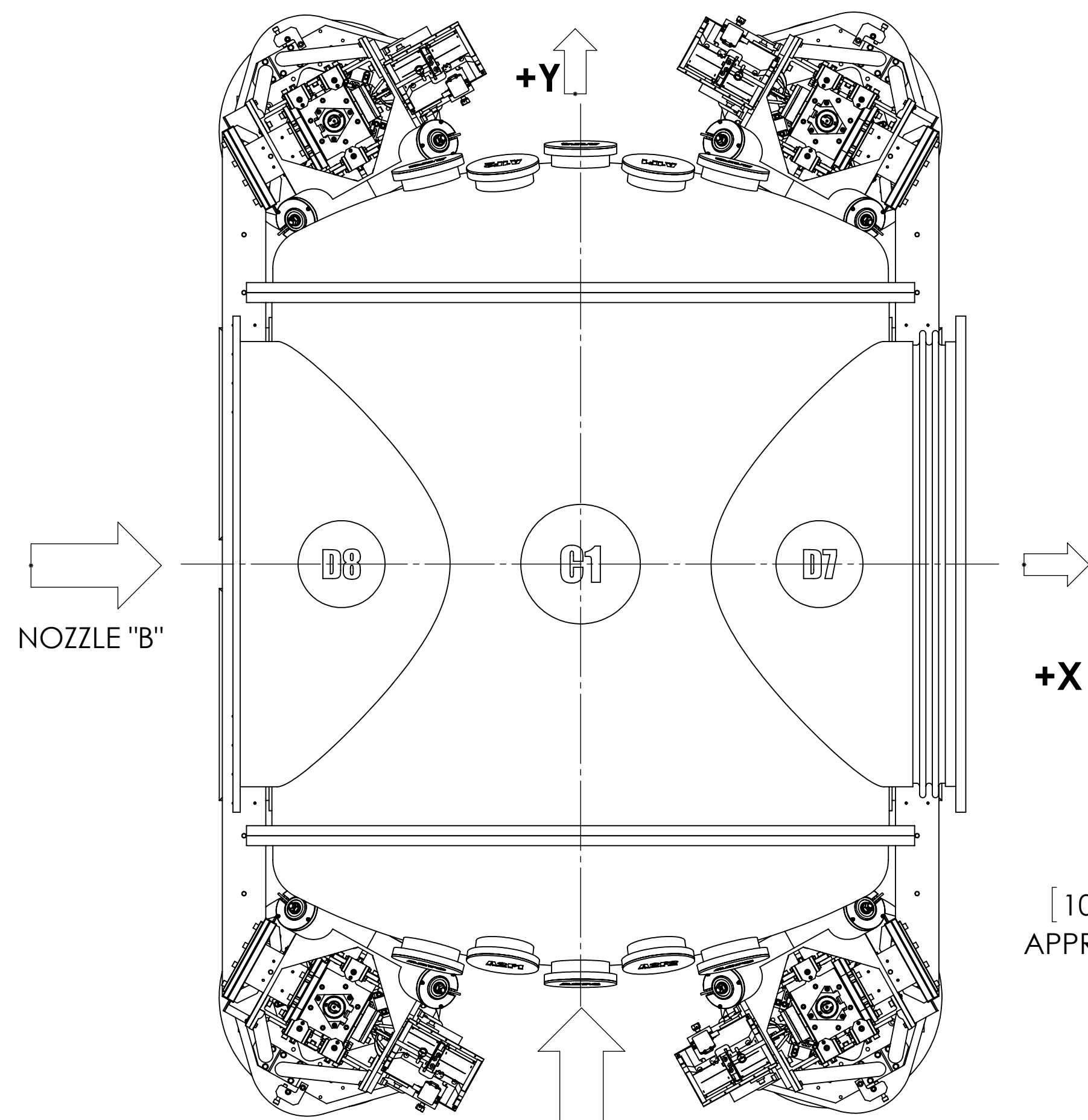
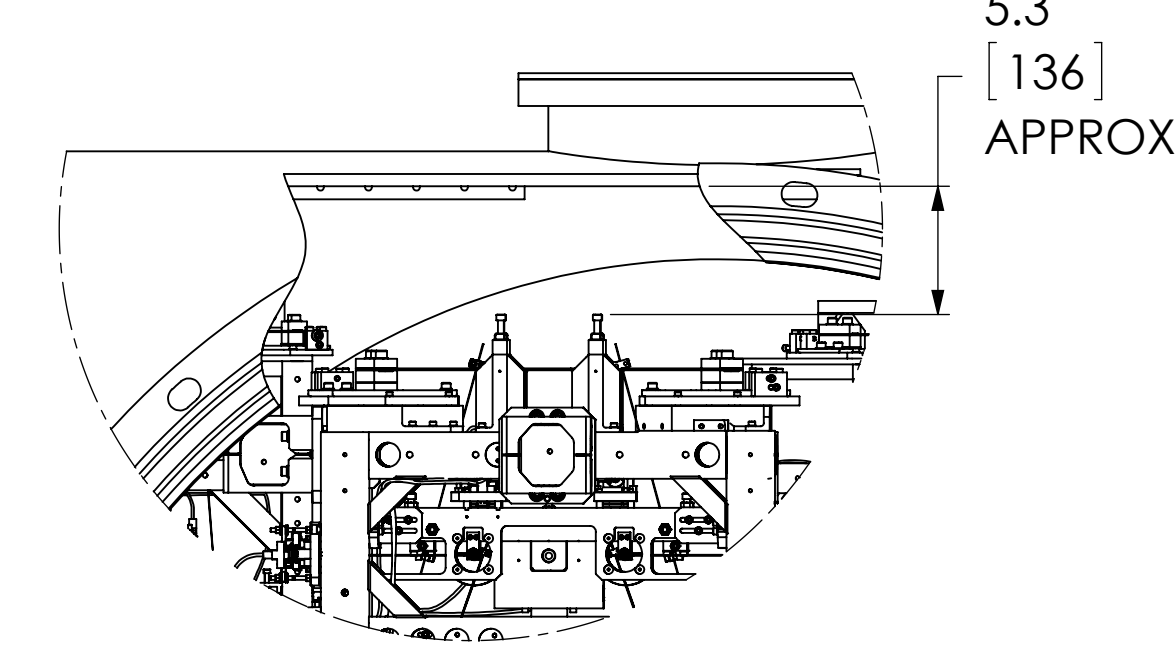
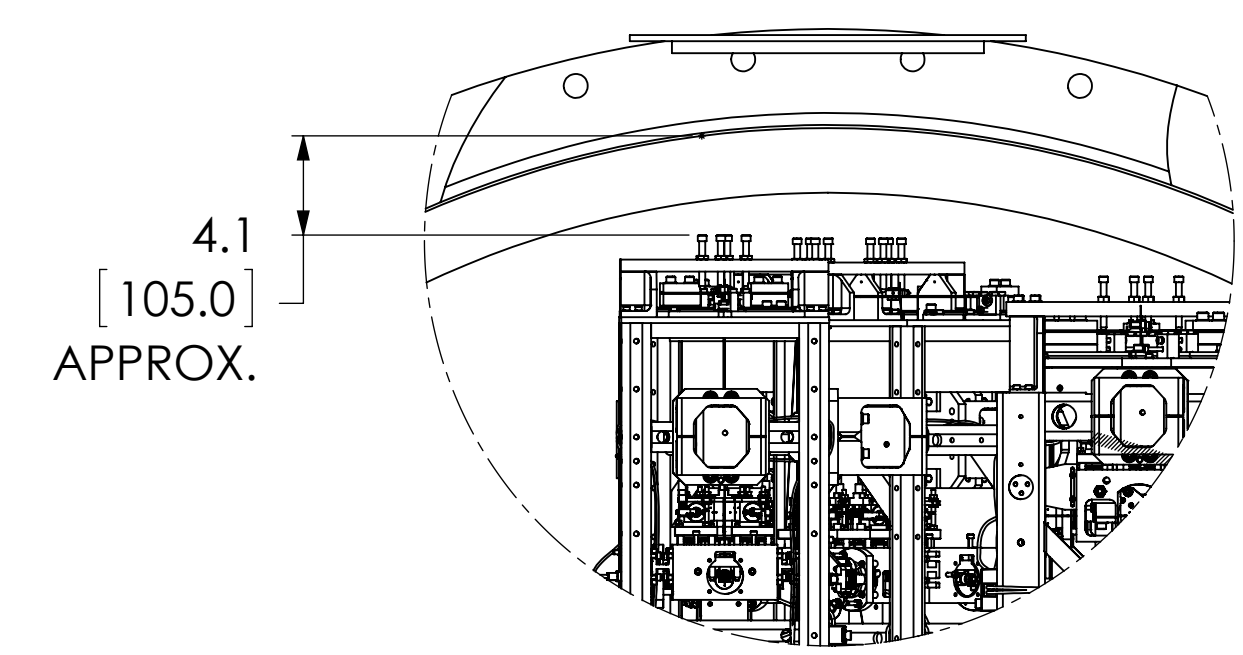


REV.	DATE	DCN #	DRAWING TREE #
v10	22 OCT 2013	E1300798-x0	
v11	12 NOV 2013		

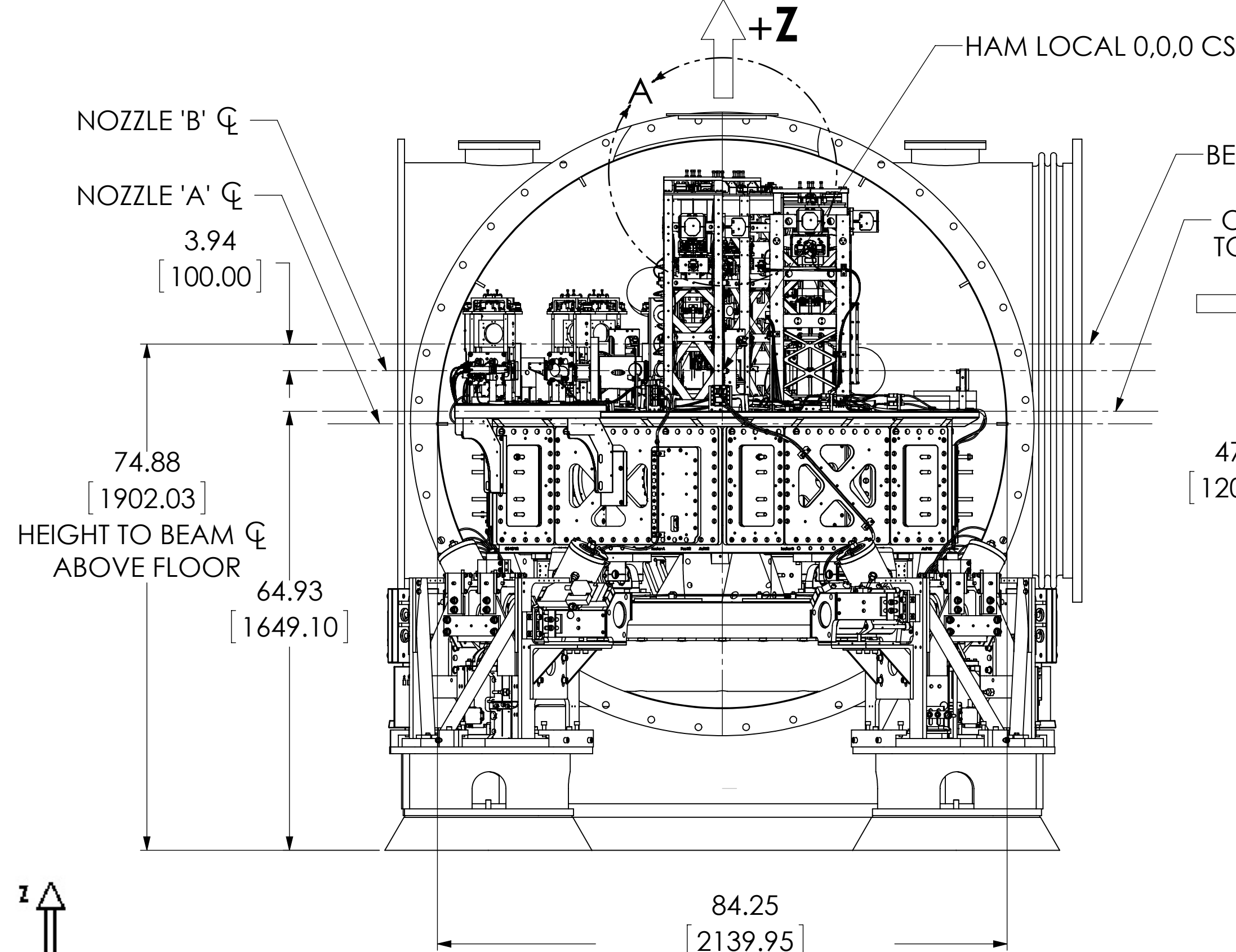
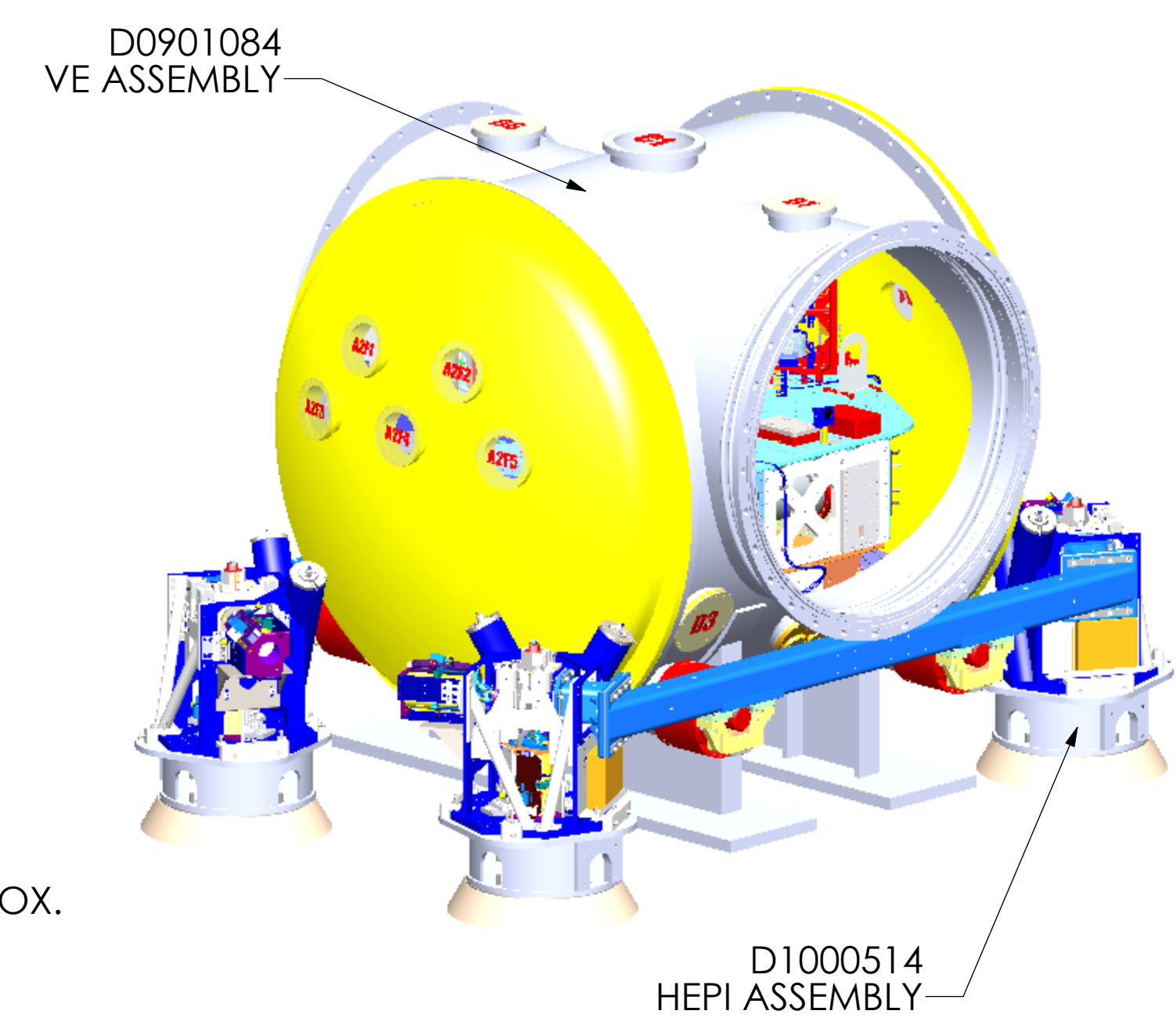
1. REFER TO DOCUMENT D1101296 FOR OPTICAL TABLE HOLE TABULATION.
2. REFER TO G1000125 FOR ISI NAMING AND ORIENTATION CONVENTION..
3. REFER TO T1100292 FOR VIEWPORT DEFINITION.
- ④ DIMENSION WRT LOCAL BUILDING CS. REFER TO 11200625 FOR LOCAL COORDINATES OF SUPPORT TUBE ENDS.



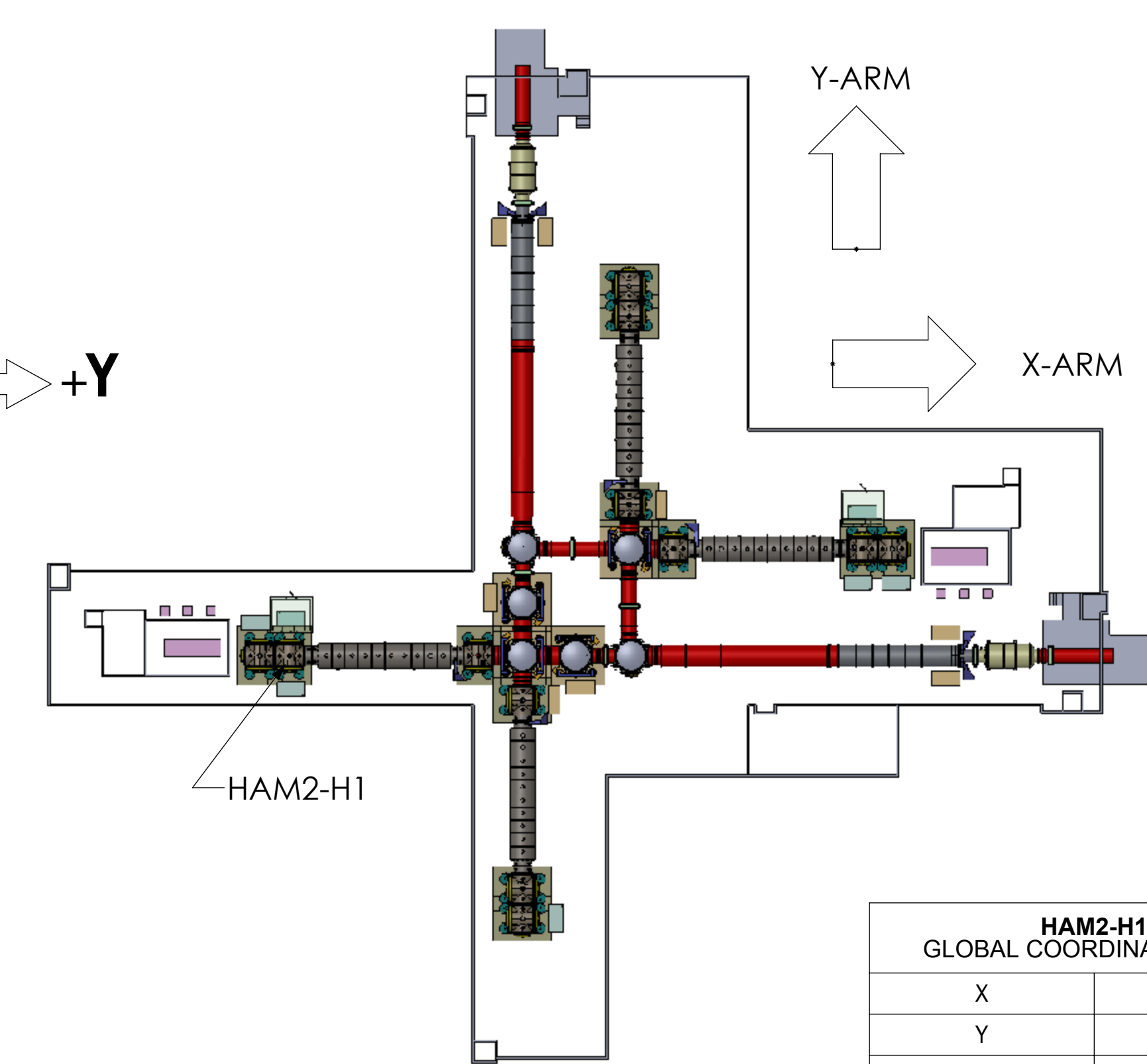
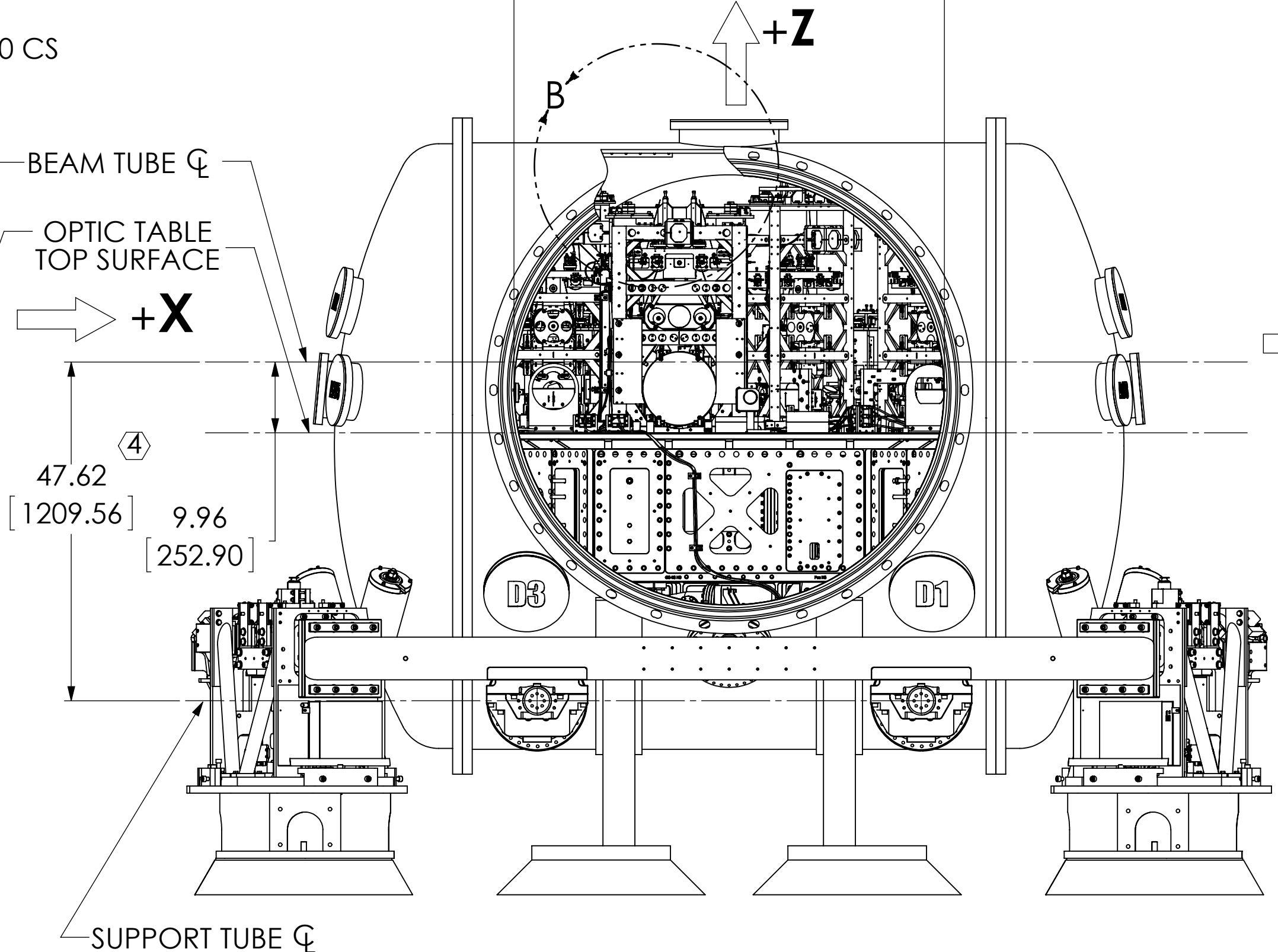
NOZZLE "A"  
TOP VIEW



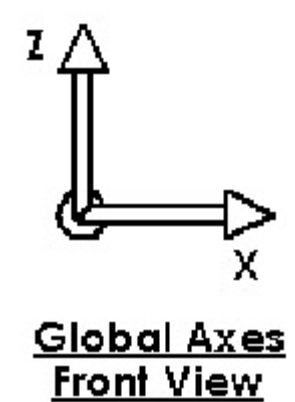
SMALL ACCESS DOOR  
SCALE 1:8



LARGE ACCESS DOOR  
FRONT VIEW



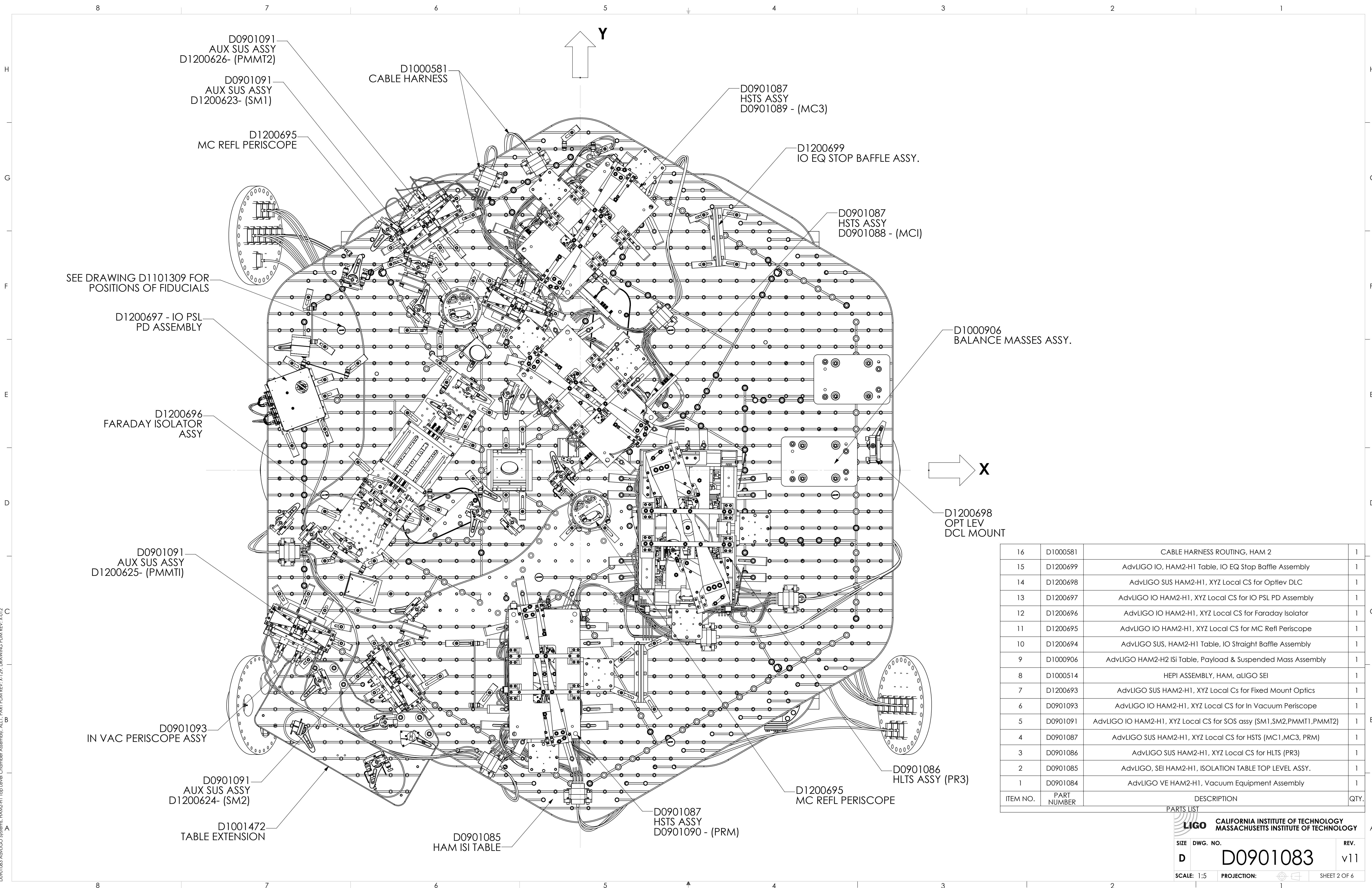
HAM2-H1 GLOBAL COORDINATES (mm)	
X	-20122.0
Y	0.0
Z	0.0



NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)

MATERIAL		FINISH		NEXT ASSY		CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		PART NAME <b>HAM2-H1 Top Level Chamber Assembly, Fully Defined</b>		DESIGNER ED CHAVEZ	SIZE <b>D</b>	DWG. NO. <b>D0901083</b>	REV. <b>v11</b>	
--		-- μinch				SYSTEM <b>ADVANCED LIGO</b>		SUB-SYSTEM <b>SUS</b>		DRAFTER 27 JUL 2009	CHECKER 27 JUL 2011	APPROVAL SEE DCC	SCALE: 1:16 PROJECTION:	SHEET 1 OF 6

D0901083 Adv LIGO Systems: HAM2-H1 Top Level Chamber Assembly, ALL PART PDM REV: X:129, DRAWING PDM REV: X:012



SEE DRAWING D1101309 FOR POSITIONS OF FIDUCIALS

D0901091  
AUX SUS ASSY  
D1200626- (PMMT2)

D0901091  
AUX SUS ASSY  
D1200623- (SM1)

D1200695  
MC REFL PERISCOPE

D1000581  
CABLE HARNESS

D0901087  
HSTS ASSY  
D0901089 - (MC3)

D1200699  
IO EQ STOP BAFFLE ASSY.

D0901087  
HSTS ASSY  
D0901088 - (MC1)

D1000906  
BALANCE MASSES ASSY.

D1200697 - IO PSL  
PD ASSEMBLY

D1200696  
FARADAY ISOLATOR  
ASSY

X

D1200698  
OPT LEV  
DCL MOUNT

D0901091  
AUX SUS ASSY  
D1200625- (PMMT1)

D0901093  
IN VAC PERISCOPE ASSY

D0901091  
AUX SUS ASSY  
D1200624- (SM2)

D1001472  
TABLE EXTENSION

D0901085  
HAM ISI TABLE

D0901087  
HSTS ASSY  
D0901090 - (PRM)

D1200695  
MC REFL PERISCOPE

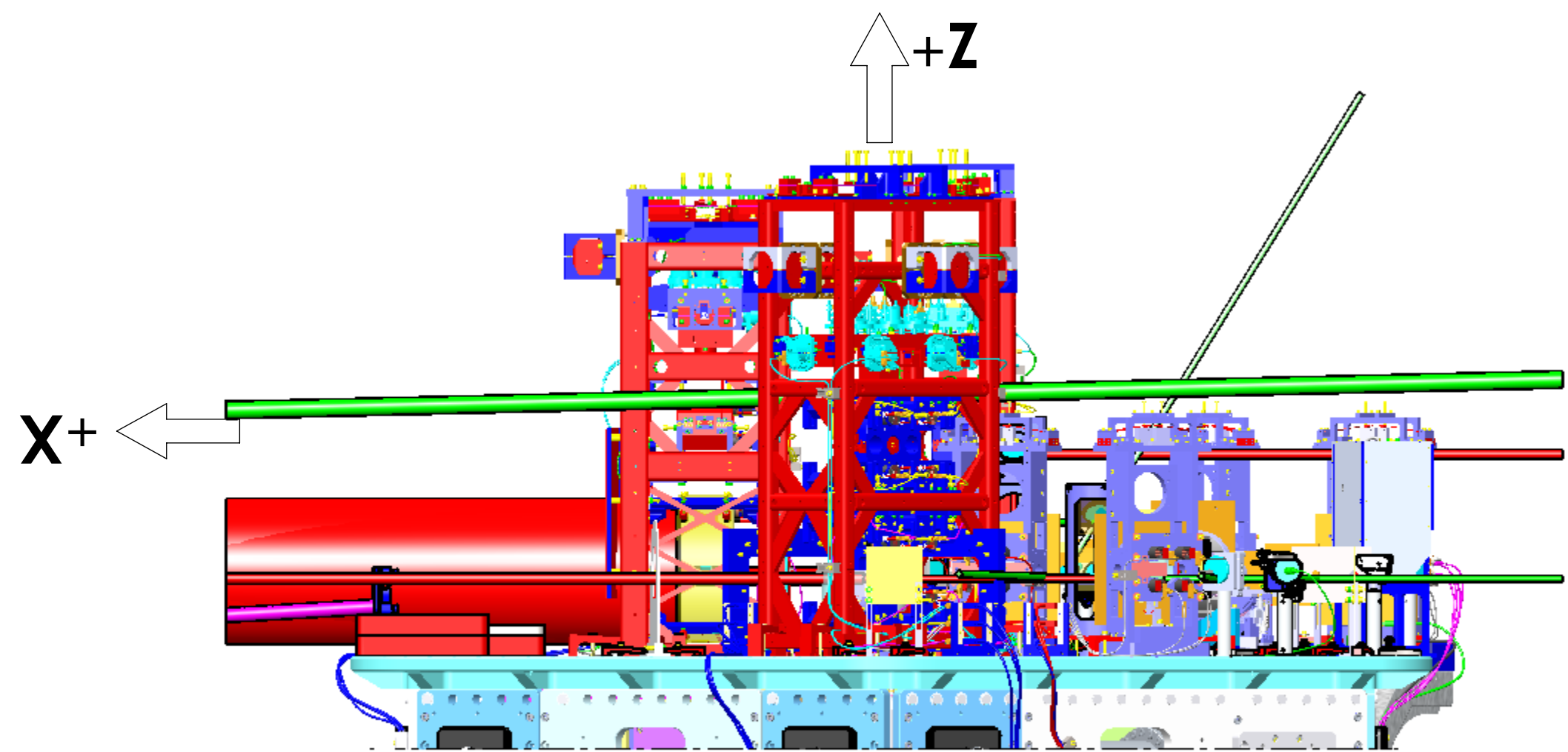
D0901086  
HLTS ASSY (PR3)

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
16	D1000581	CABLE HARNESS ROUTING, HAM 2	1
15	D1200699	AdvLIGO IO, HAM2-H1 Table, IO EQ Stop Baffle Assembly	1
14	D1200698	AdvLIGO SUS HAM2-H1, XYZ Local CS for Optlev DLC	1
13	D1200697	AdvLIGO IO HAM2-H1, XYZ Local CS for IO PSL PD Assembly	1
12	D1200696	AdvLIGO IO HAM2-H1, XYZ Local CS for Faraday Isolator	1
11	D1200695	AdvLIGO IO HAM2-H1, XYZ Local CS for MC Refl Periscope	1
10	D1200694	AdvLIGO SUS, HAM2-H1 Table, IO Straight Baffle Assembly	1
9	D1000906	AdvLIGO HAM2-H2 ISI Table, Payload & Suspended Mass Assembly	1
8	D1000514	HEPI ASSEMBLY, HAM, aLIGO SEI	1
7	D1200693	AdvLIGO SUS HAM2-H1, XYZ Local Cs for Fixed Mount Optics	1
6	D0901093	AdvLIGO IO HAM2-H1, XYZ Local CS for In Vacuum Periscope	1
5	D0901091	AdvLIGO IO HAM2-H1, XYZ Local CS for SOS assy (SM1,SM2,PMMT1,PMMT2)	1
4	D0901087	AdvLIGO SUS HAM2-H1, XYZ Local CS for HSTS (MC1,MC3, PRM)	1
3	D0901086	AdvLIGO SUS HAM2-H1, XYZ Local CS for HLTS (PR3)	1
2	D0901085	AdvLIGO, SEI HAM2-H1, ISOLATION TABLE TOP LEVEL ASSY.	1
1	D0901084	AdvLIGO VE HAM2-H1, Vacuum Equipment Assembly	1

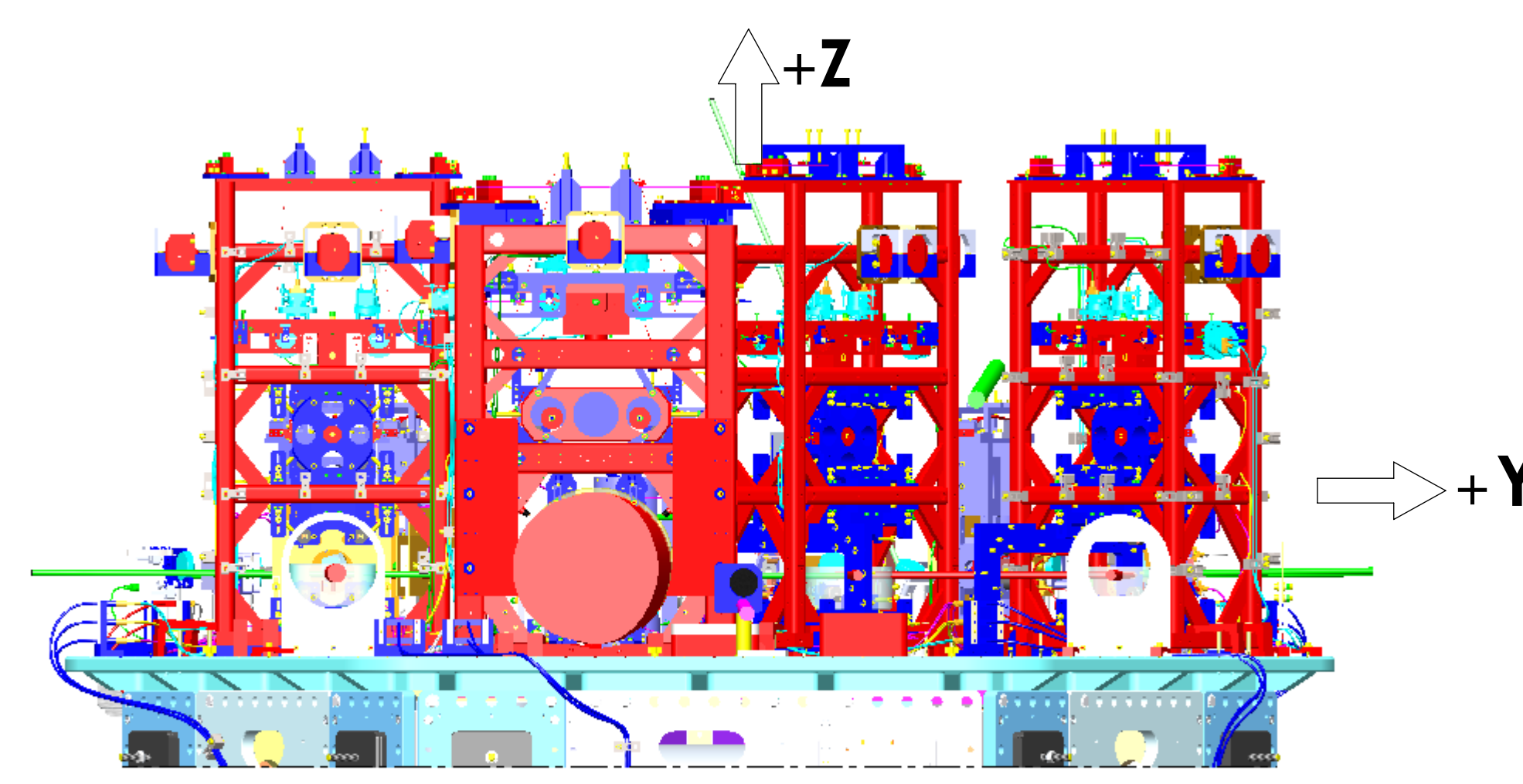
LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY  
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SIZE DWG. NO. REV.  
D D0901083 v11  
SCALE: 1:5 PROJECTION: SHEET 2 OF 6

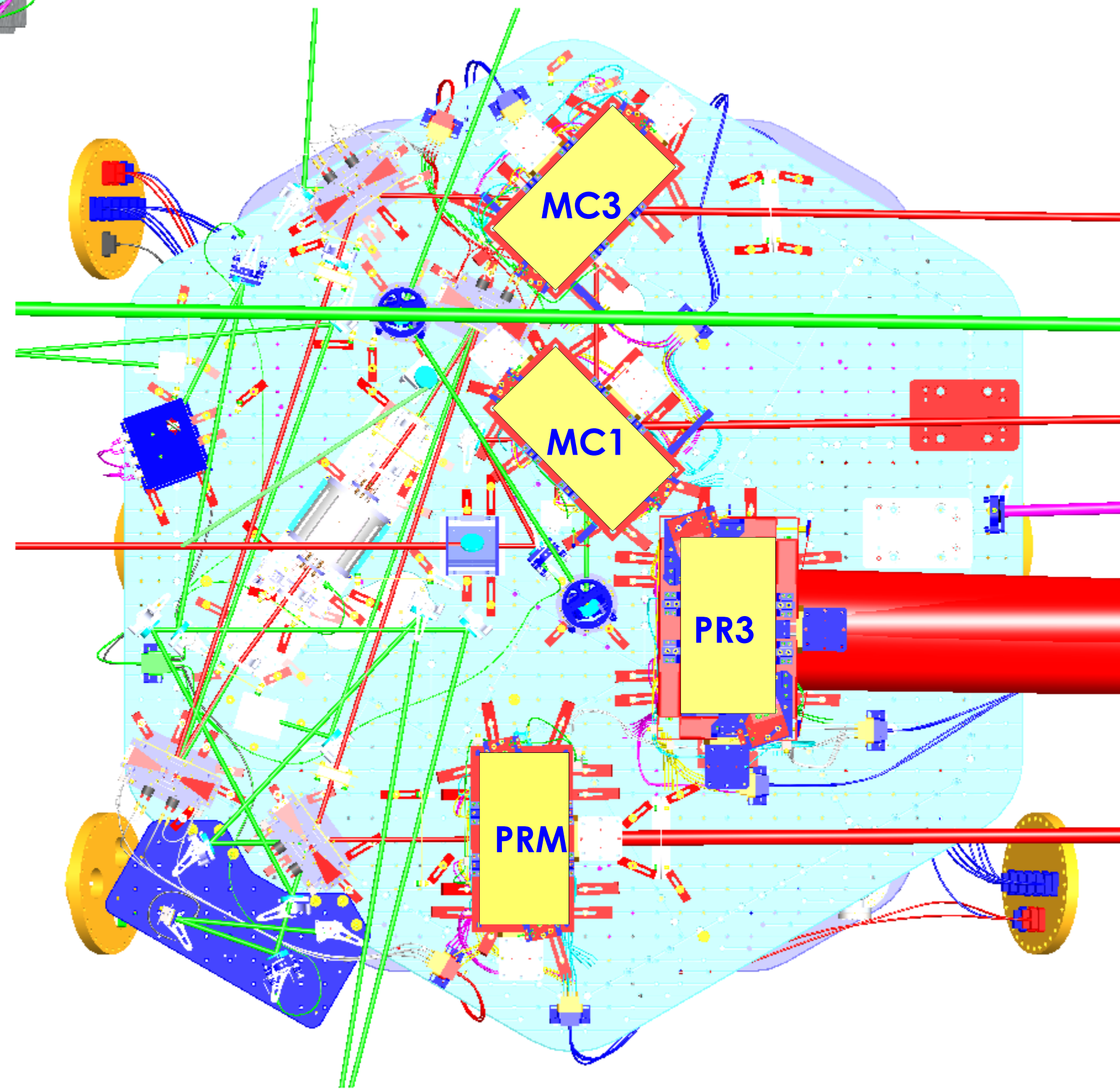
D0901083 AdvLIGO Systems, HAM2-H1 Top Level Chamber Assembly, ALL PART PDM REV-X:129, DRAWING PDM REV-X:012



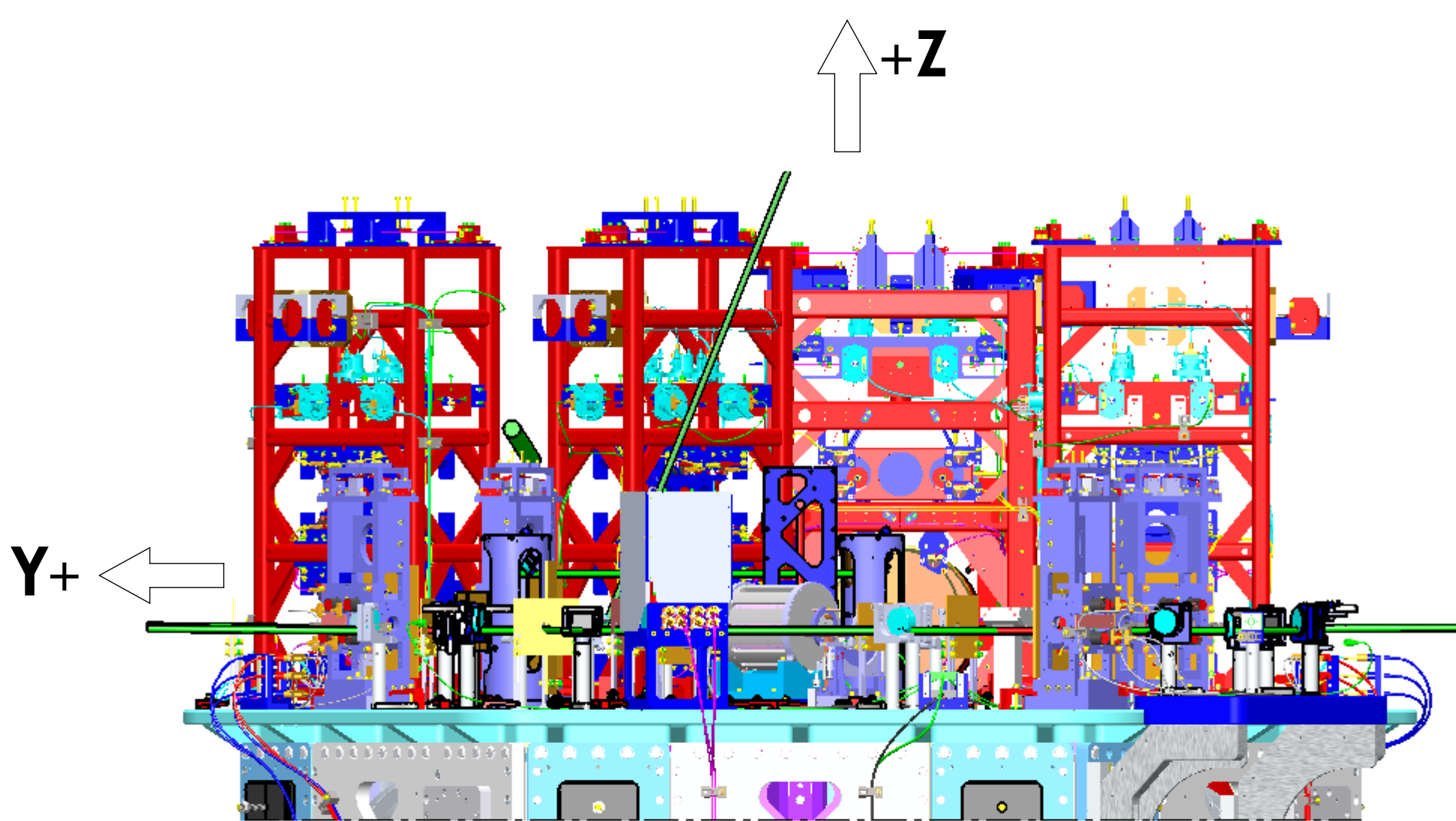
REAR VIEW  
(ROTATED 180 DEGREES CCW)



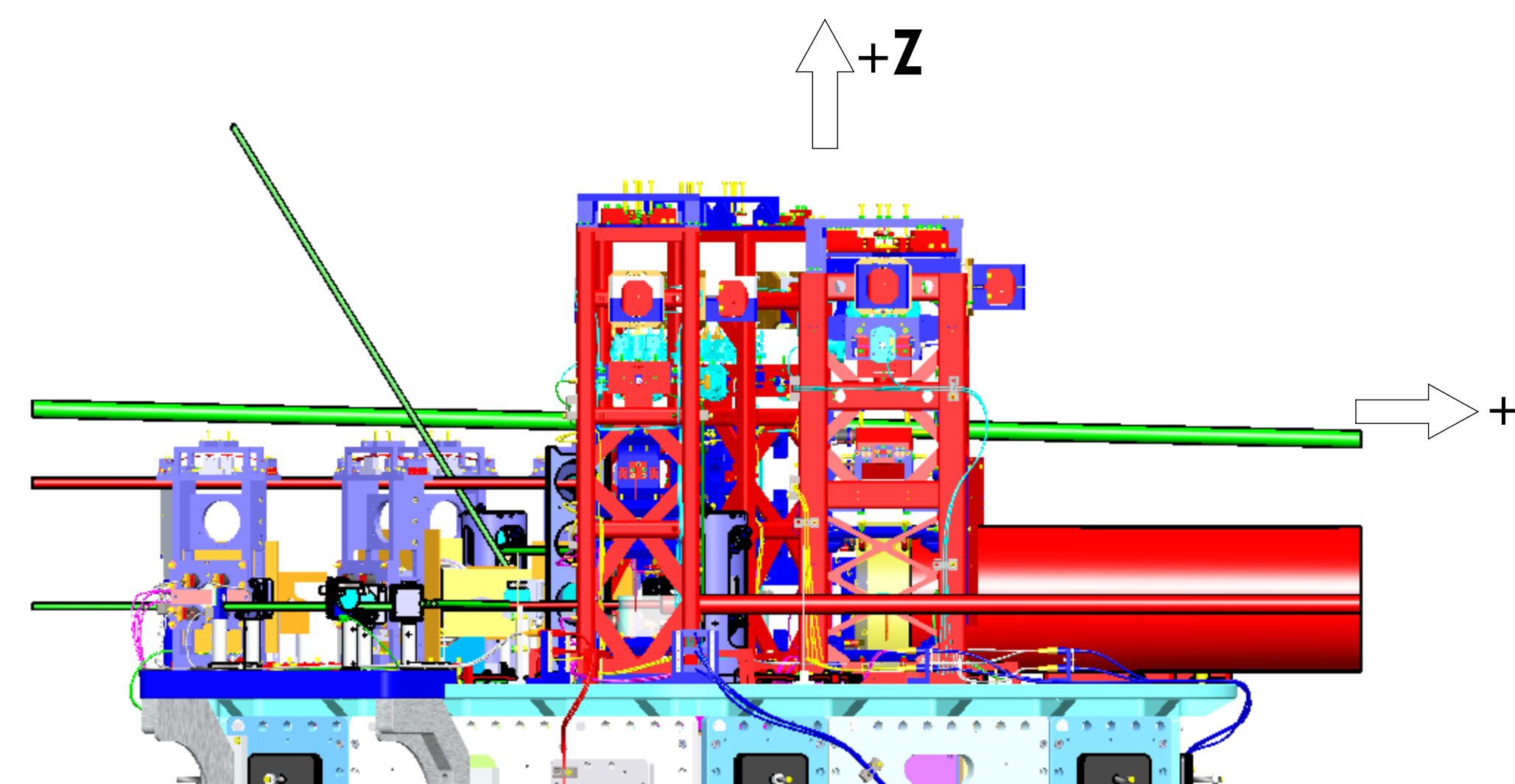
RIGHT SIDE VIEW  
(ROTATED 180 DEGREES CCW)



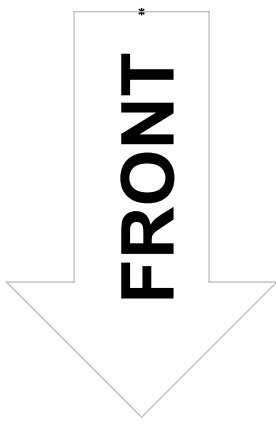
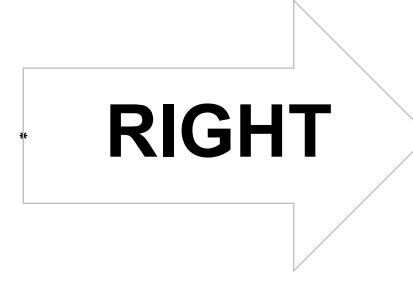
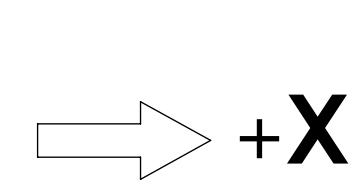
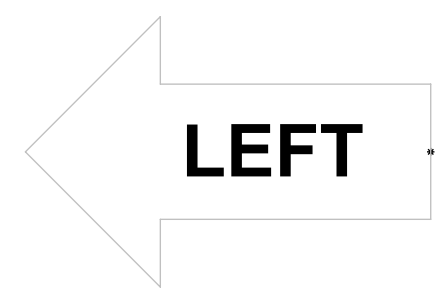
TOP VIEW



LEFT SIDE VIEW  
(ROTATED 90 DEGREES CCW)



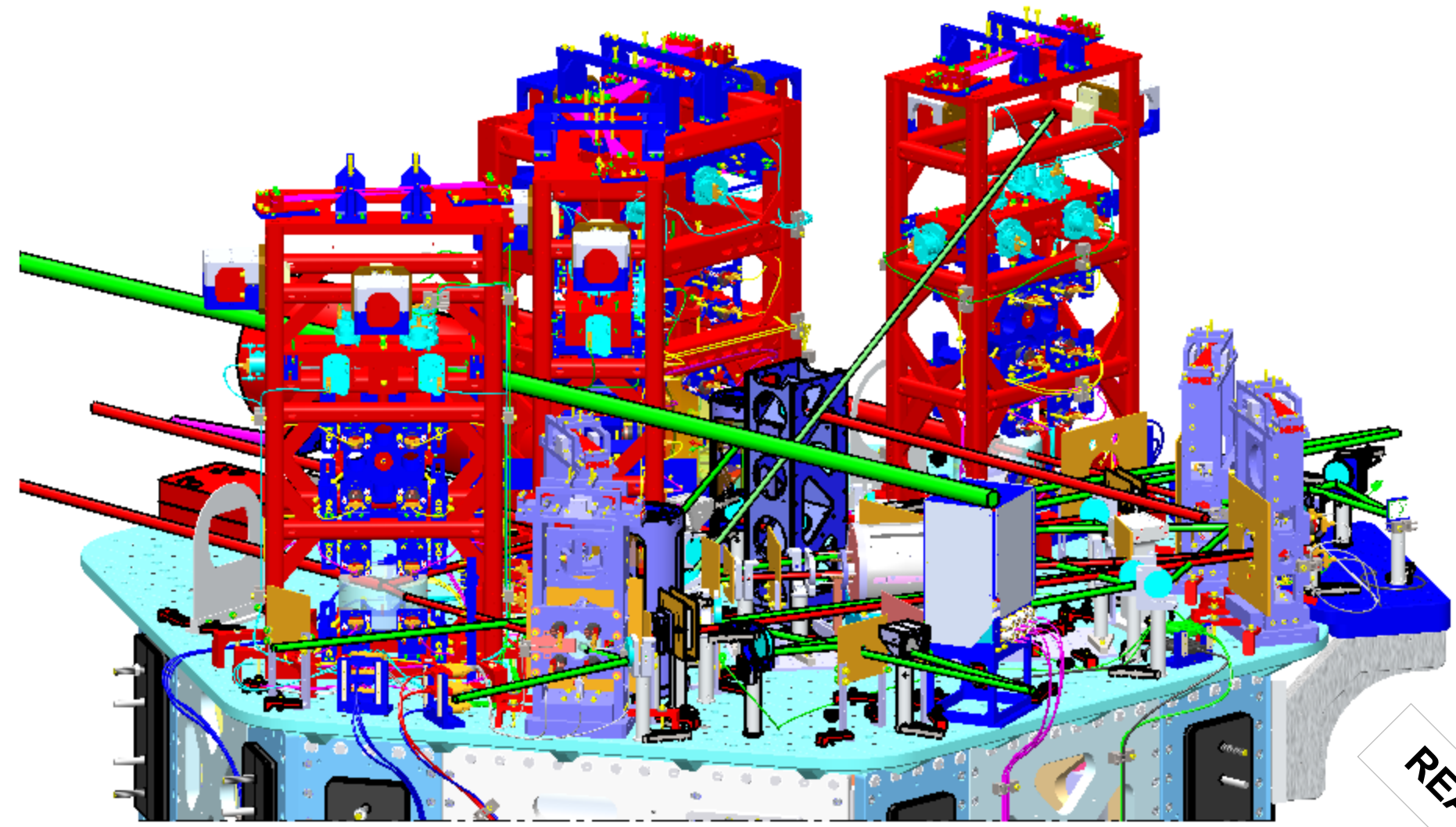
FRONT VIEW



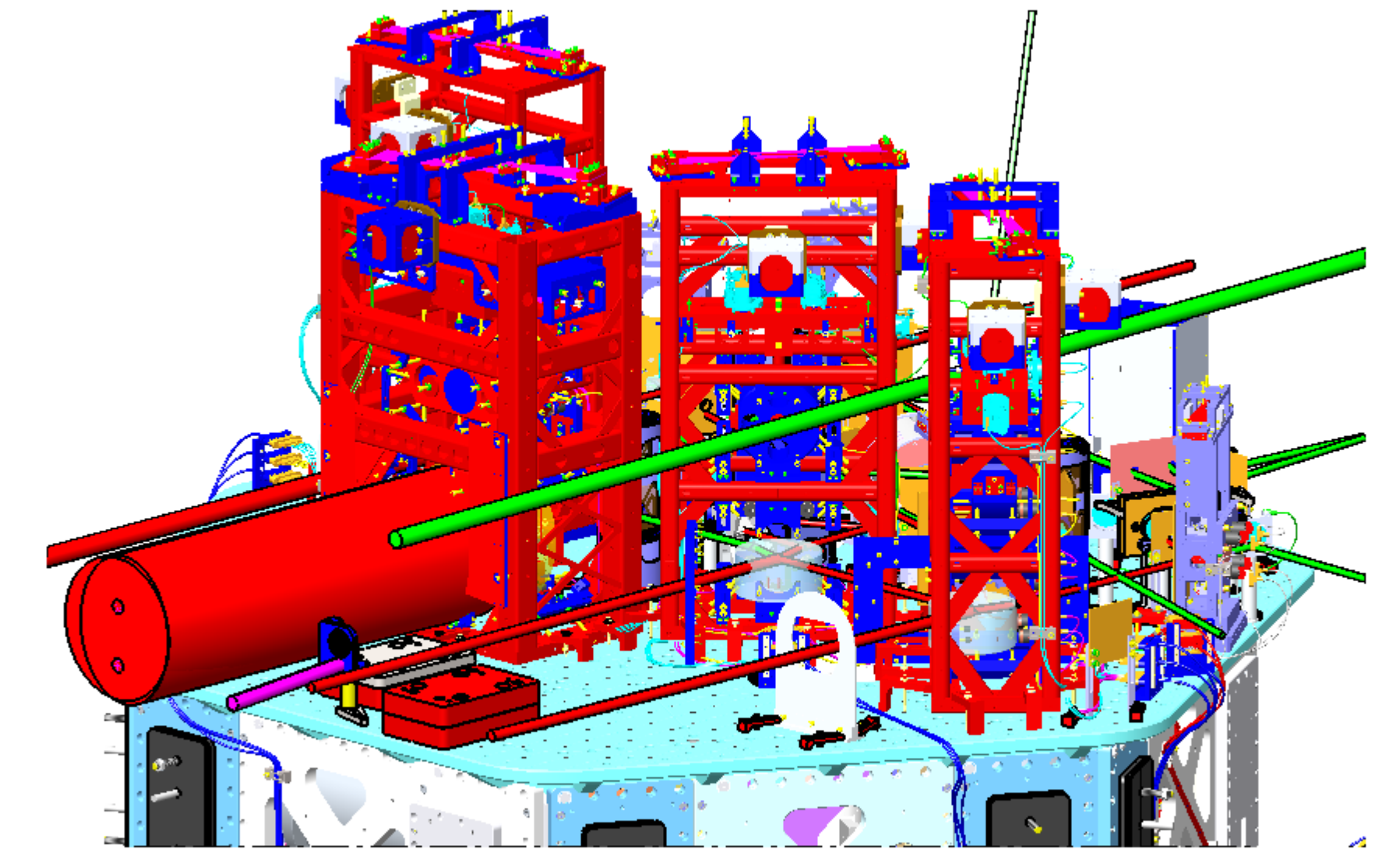
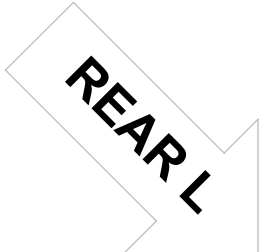
# LASER BEAMS - ORTHO VIEWS

CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		
SIZE	DWG. NO.	REV.
D	D0901083	v11
SCALE: 1:8	PROJECTION:	SHEET 3 OF 6

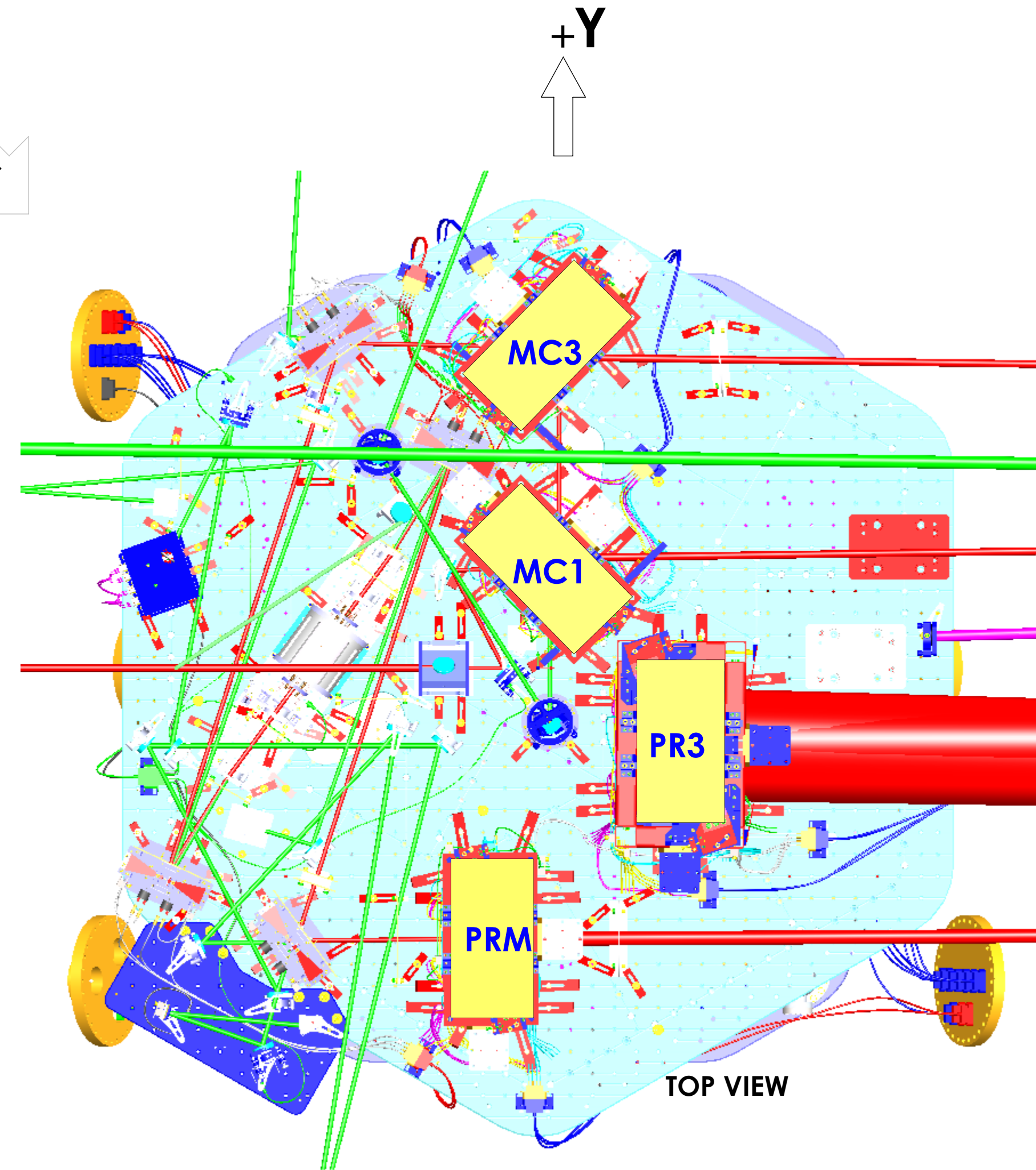
D0901083 Asst LIGO Systems: HAM2-H1 Top Level Chamber Assembly, ALL PART PDM REV: X:129, DRAWING PDM REV: X:012



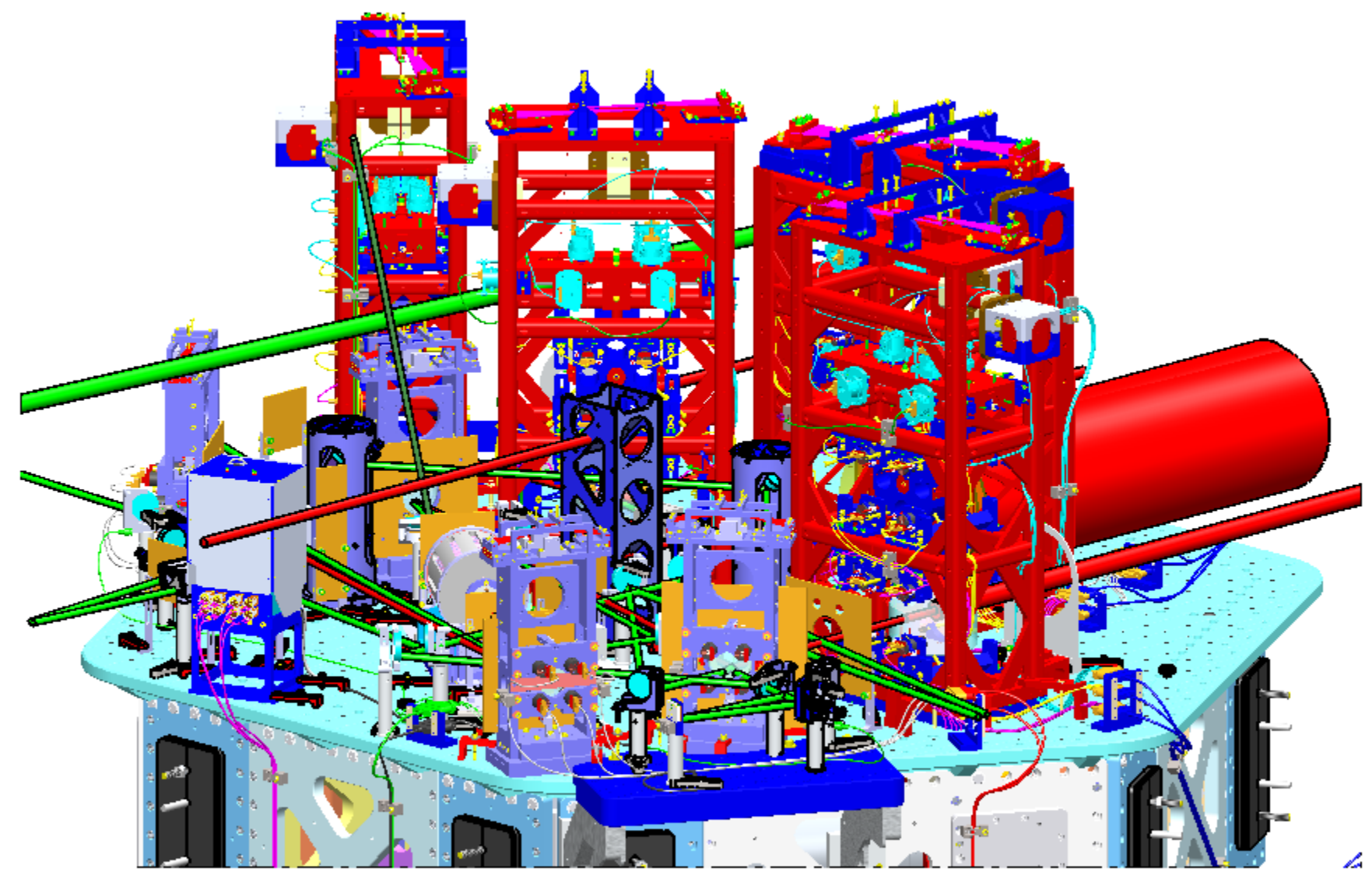
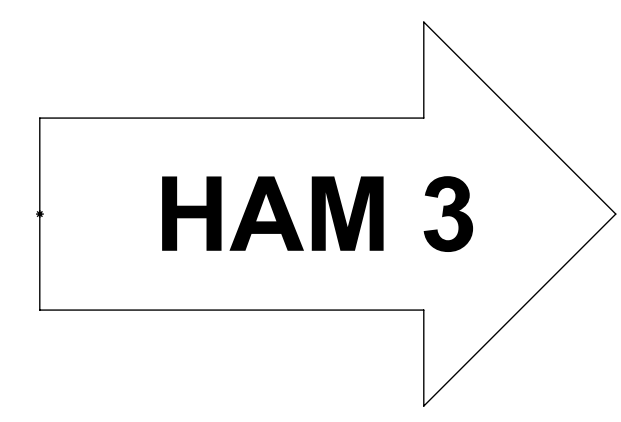
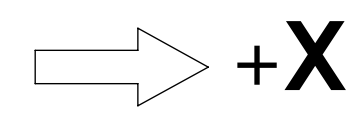
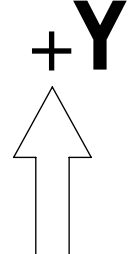
ISO REAR - LEFT



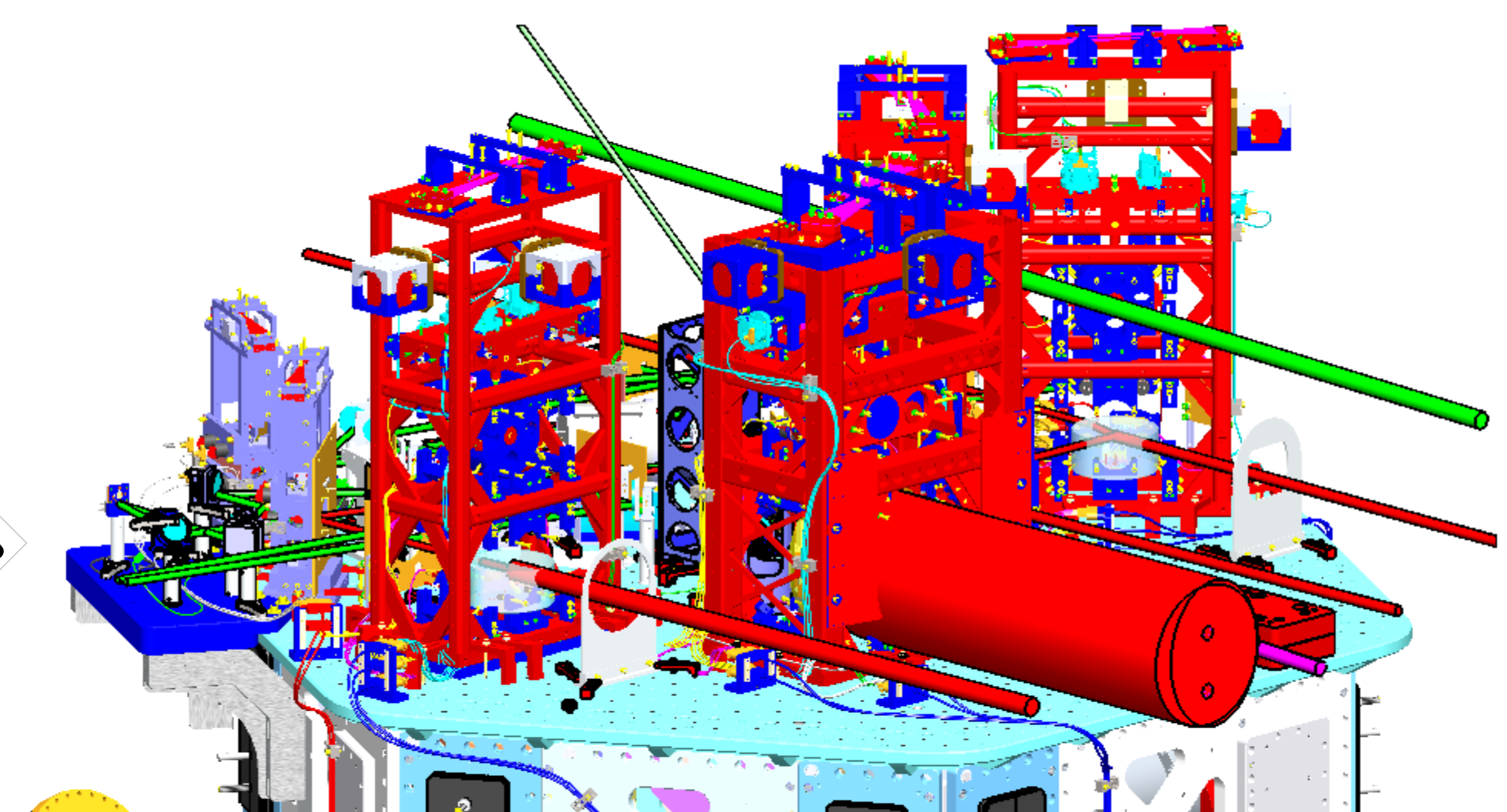
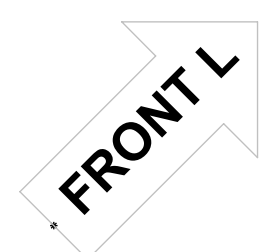
ISO REAR - RIGHT



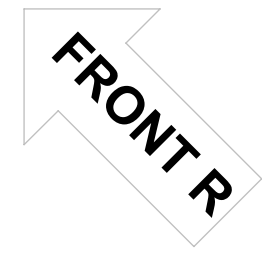
TOP VIEW



ISO FRONT - LEFT



ISO FRONT - RIGHT



# LASER BEAMS - ISO VIEWS

CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
SIZE DWG. NO.	REV.
D D0901083	v11
SCALE: 1:8	PROJECTION:
SHEET 4 OF 6	

D0901083 Asst LIGO Systems: HAM2-H1 Top Level Chamber Assembly, ALL PART PDM REV: X:129, DRAWING PDM REV: X:012

8

7

6

5

4

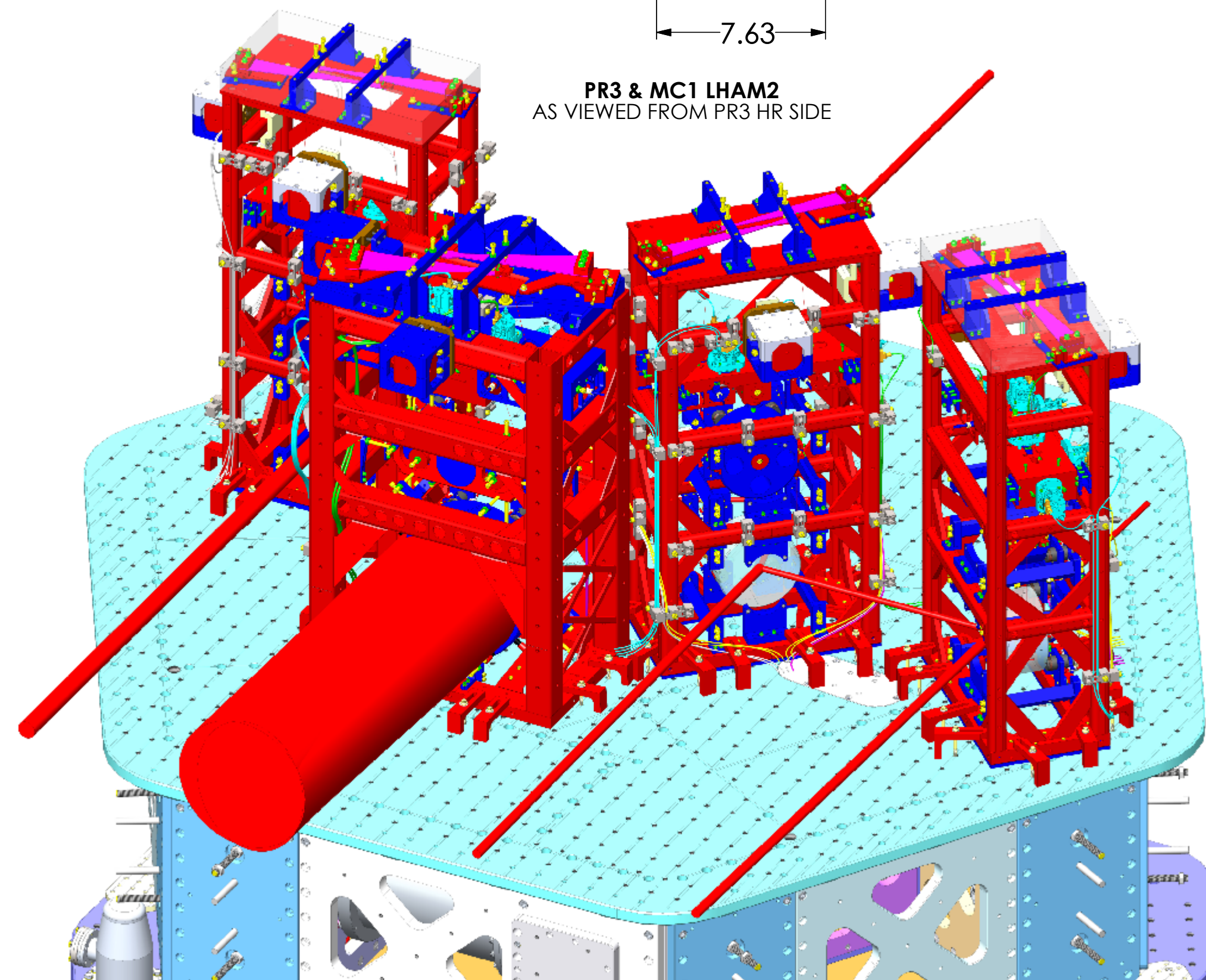
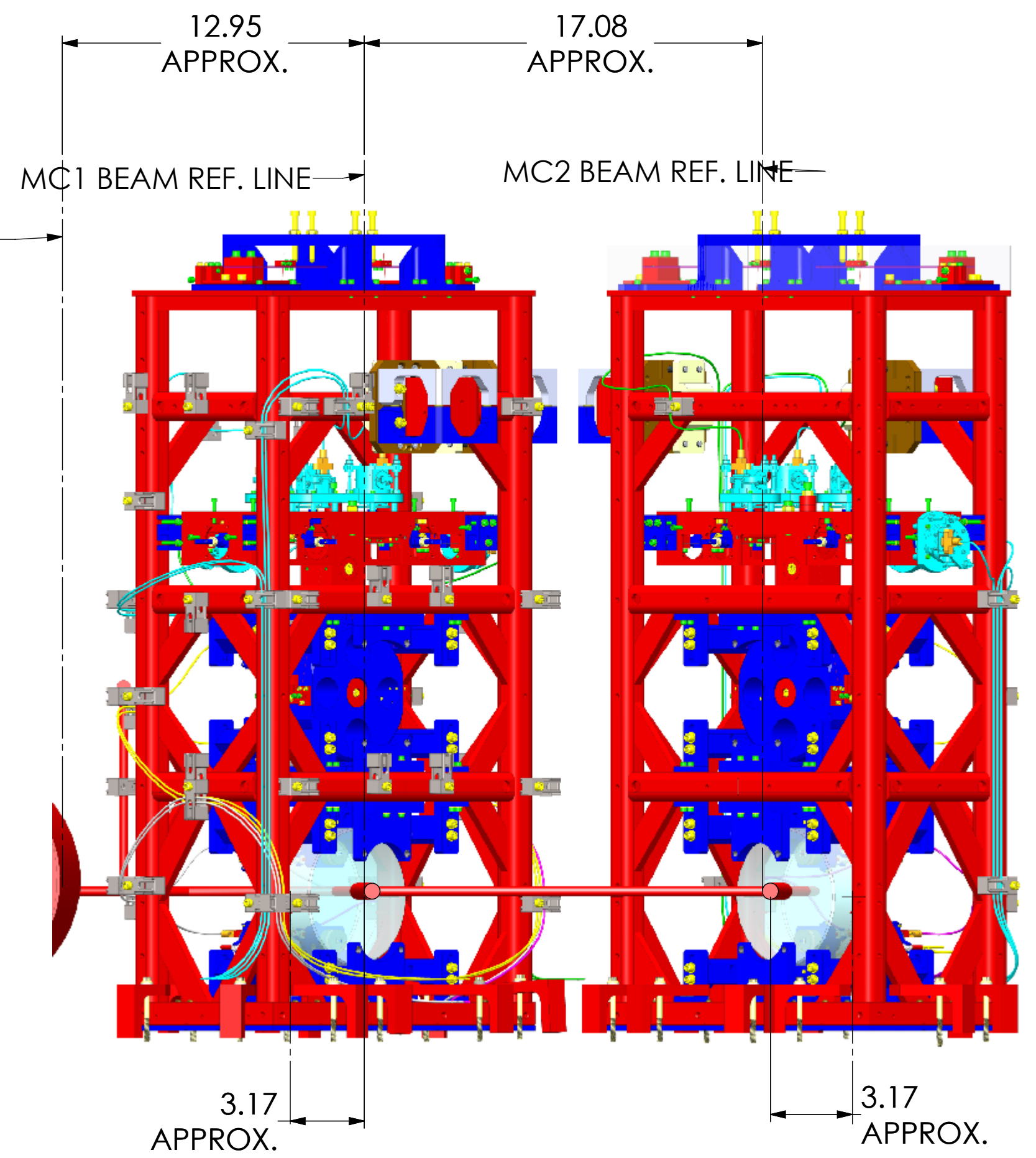
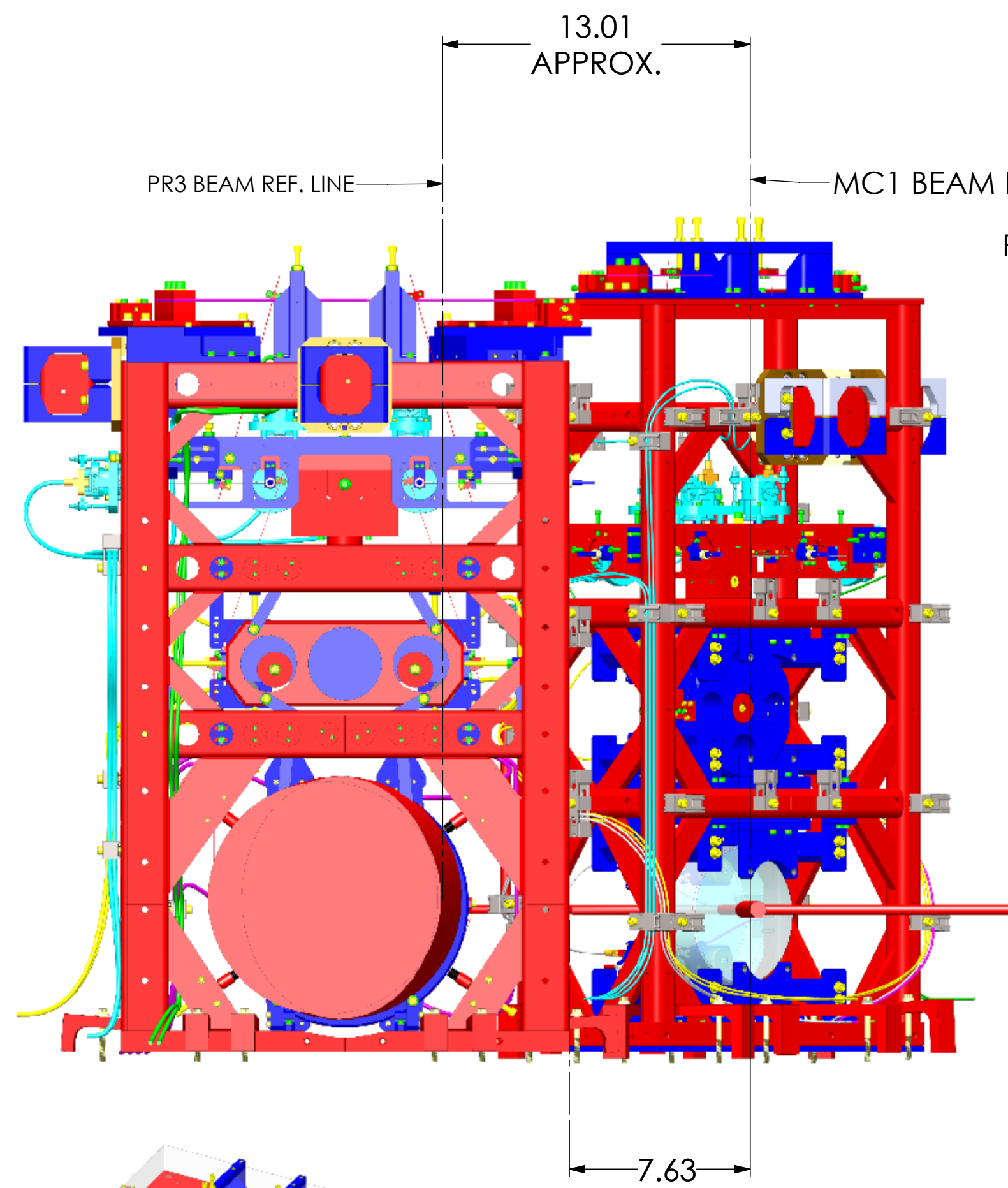
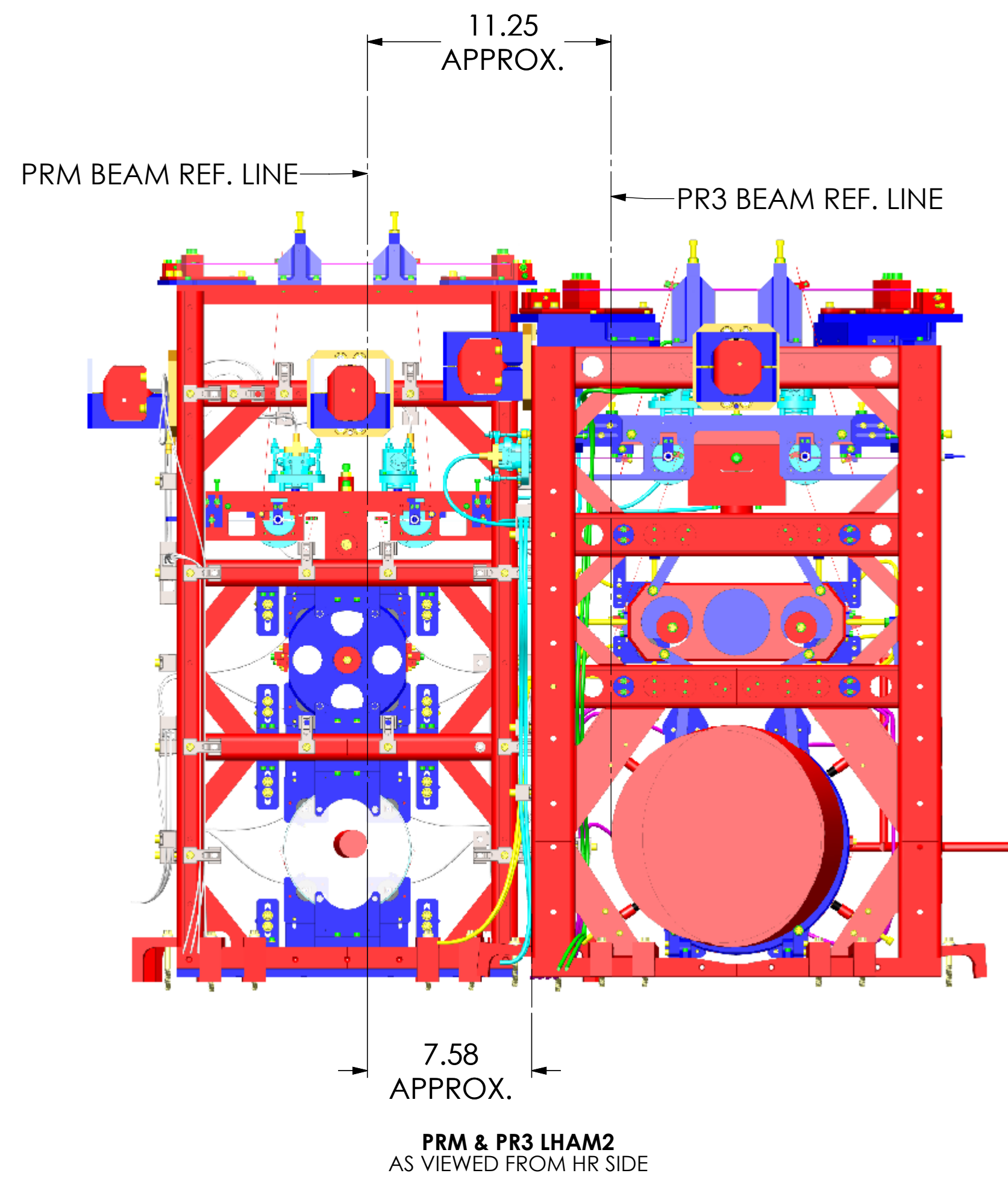
3

2

1

H  
G  
F  
E  
D  
C  
B  
A

H  
G  
F  
E  
D  
C  
B  
A



# LASER BEAMS HR SIDE CLEARANCES

<b>LIGO</b> CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
SIZE DWG. NO.	REV.
D D0901083	v11
SCALE: NTS	PROJECTION:
SHEET 5 OF 6	

8

7

6

5

4

3

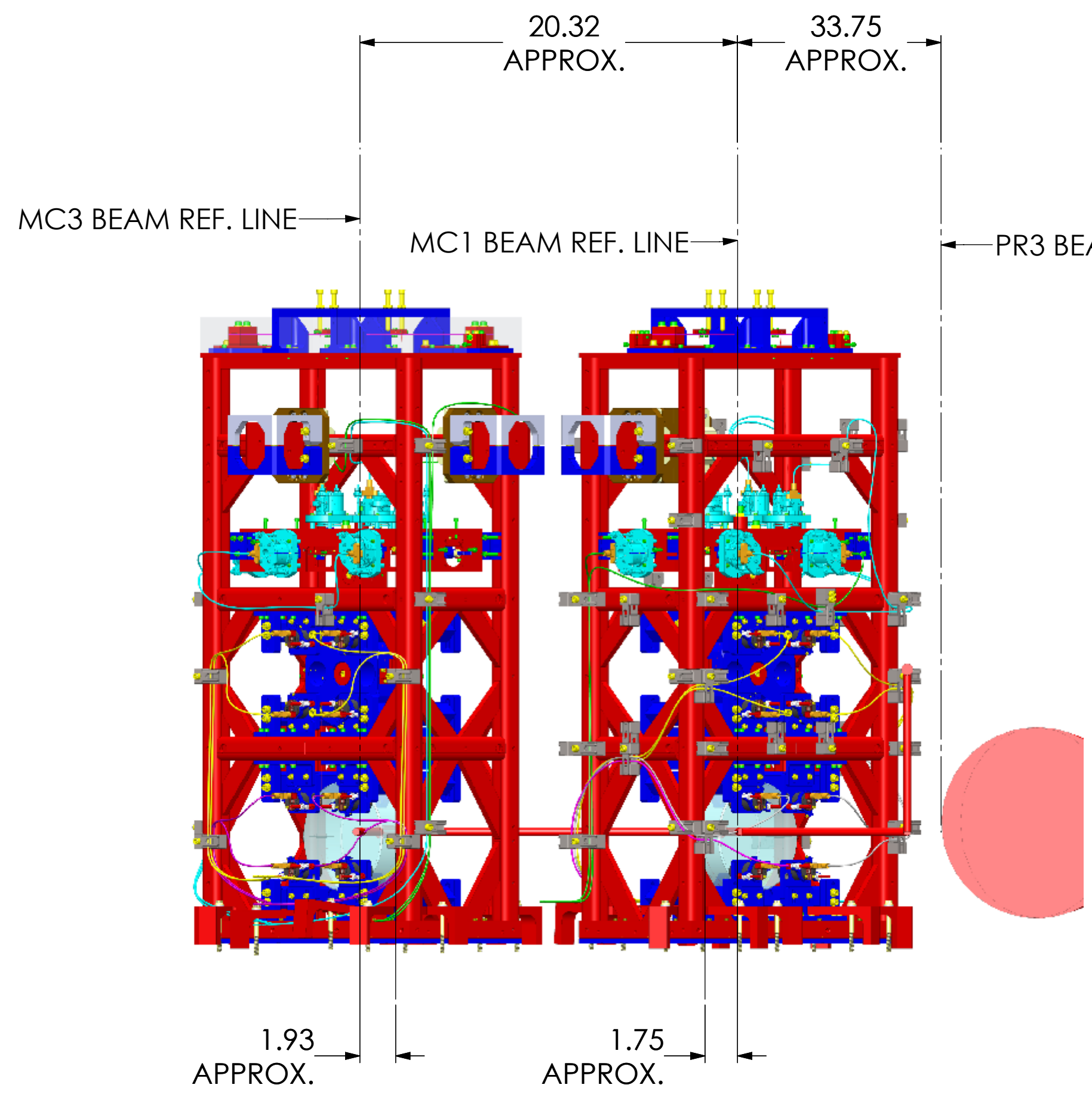
2

1

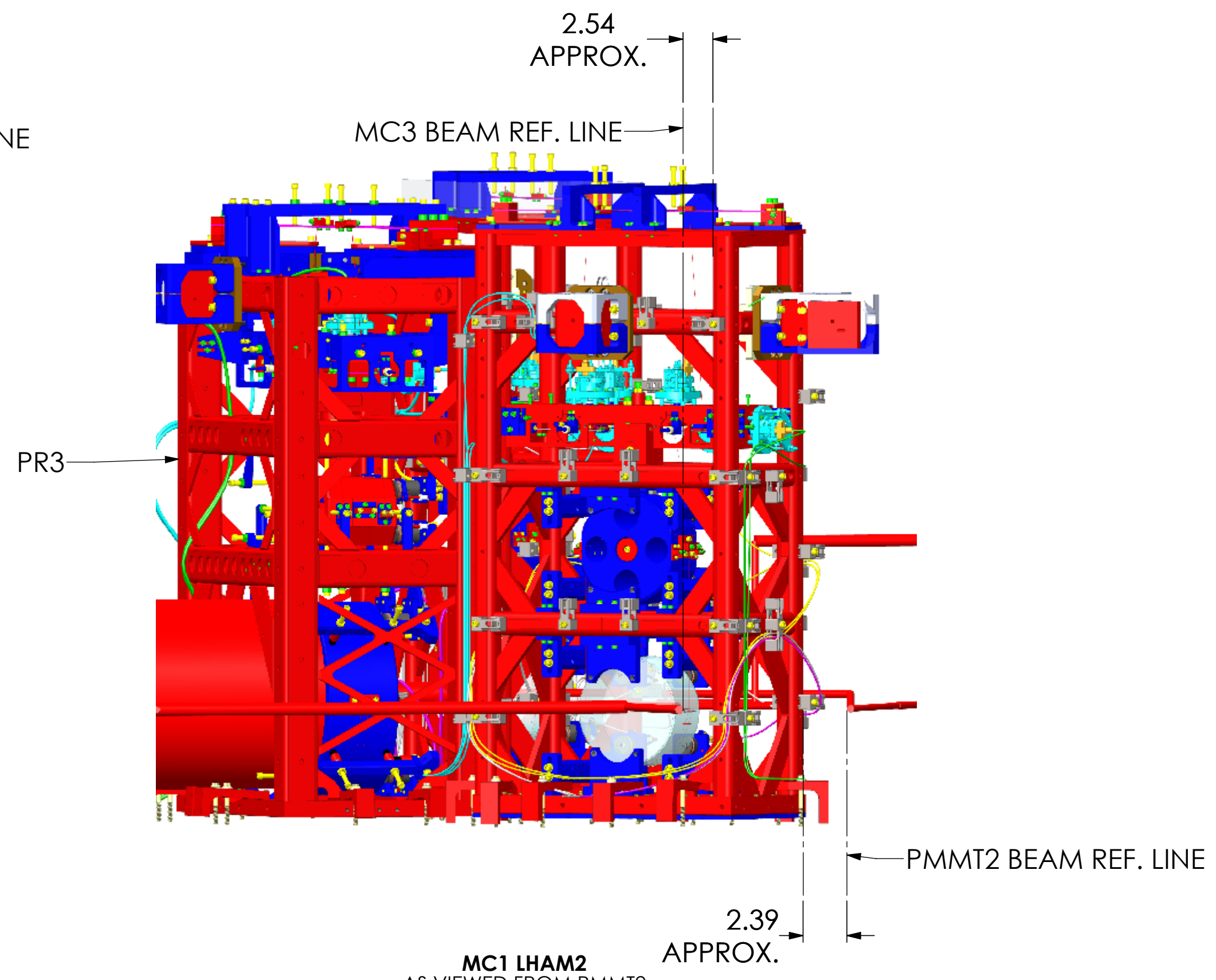
8 7 6 5 4 3 2 1

H  
G  
F  
E  
D  
C  
B  
A

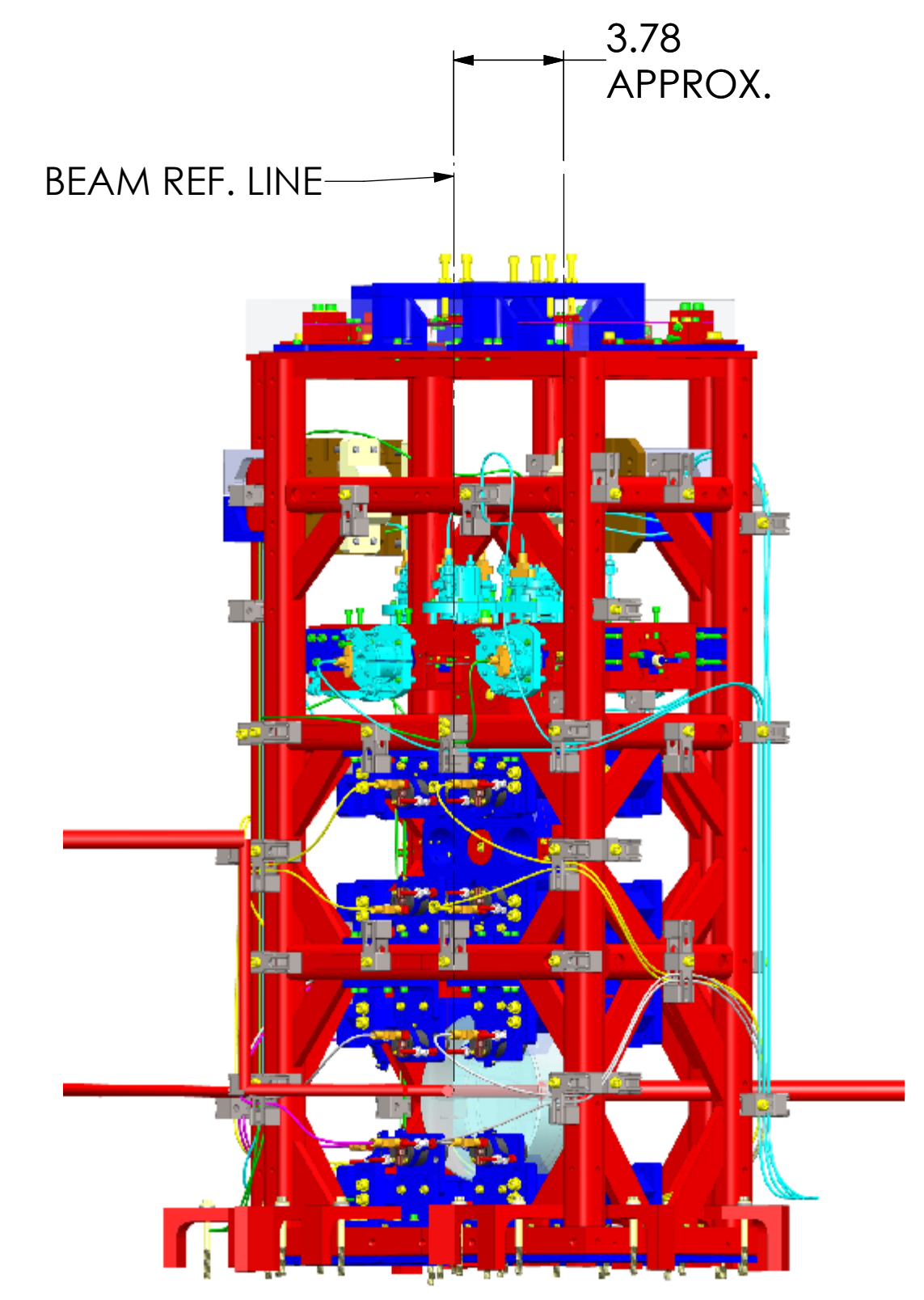
H  
G  
F  
E  
D  
C  
B  
A



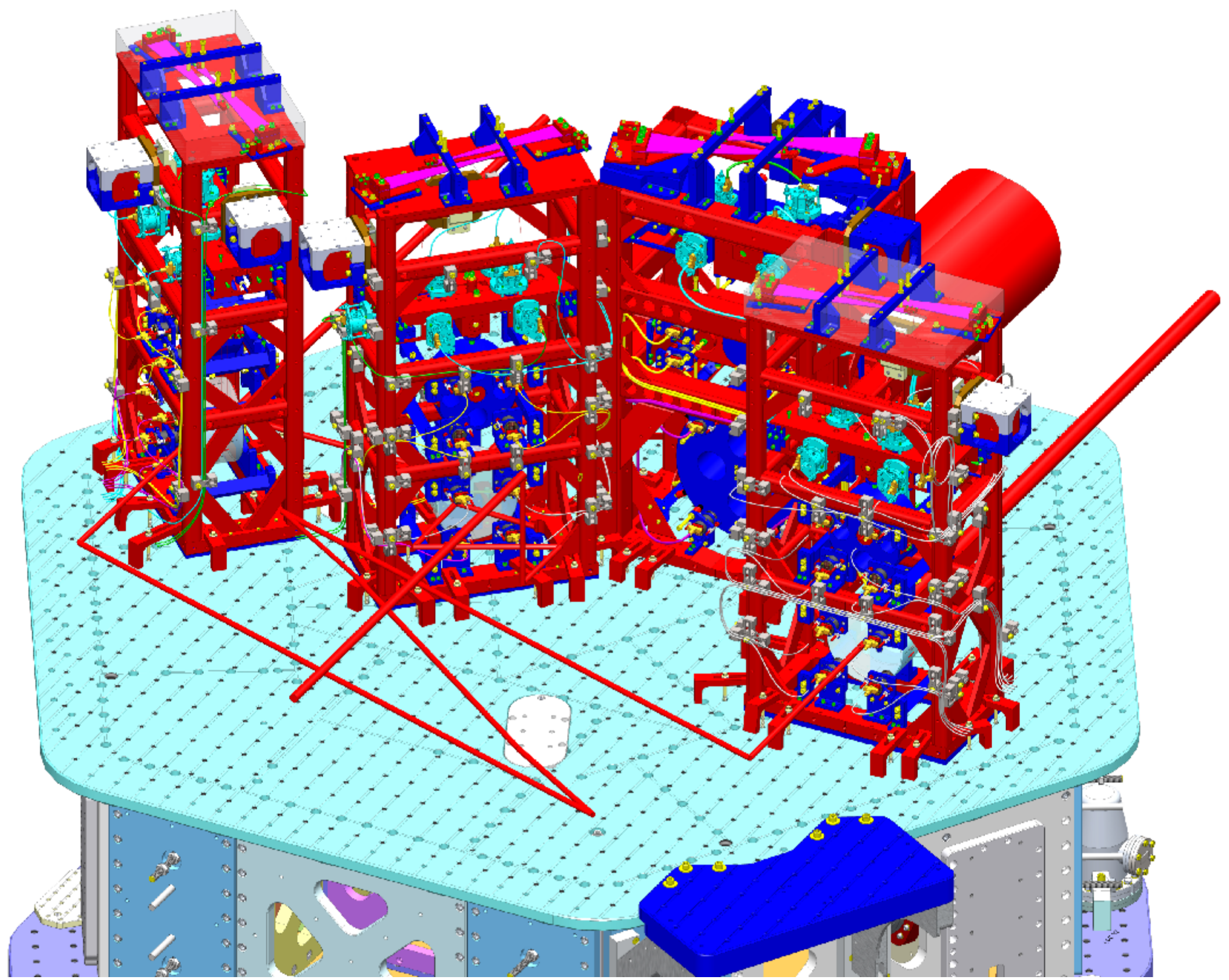
MC3 & MC1 LHAM2  
AS VIEWED FROM AR SIDE



MC1 LHAM2  
AS VIEWED FROM PMMT2



MC1 LHAM2  
ISO VIEW, REAR RIGHT



ISO VIEW, FRONT LEFT

# LASER BEAMS AR SIDE CLEARANCES

<b>LIGO</b> CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
SIZE DWG. NO.	REV.
D D0901083	v11
SCALE: NTS	PROJECTION:
SHEET 6 OF 6	

8 7 6 5 4 3 2 1

D0901083-AsstLIGO Systems-HAM2-H1 Top Level Chamber Assembly, ALL PART PDM REV., DRAWING PDM REV.:X-012