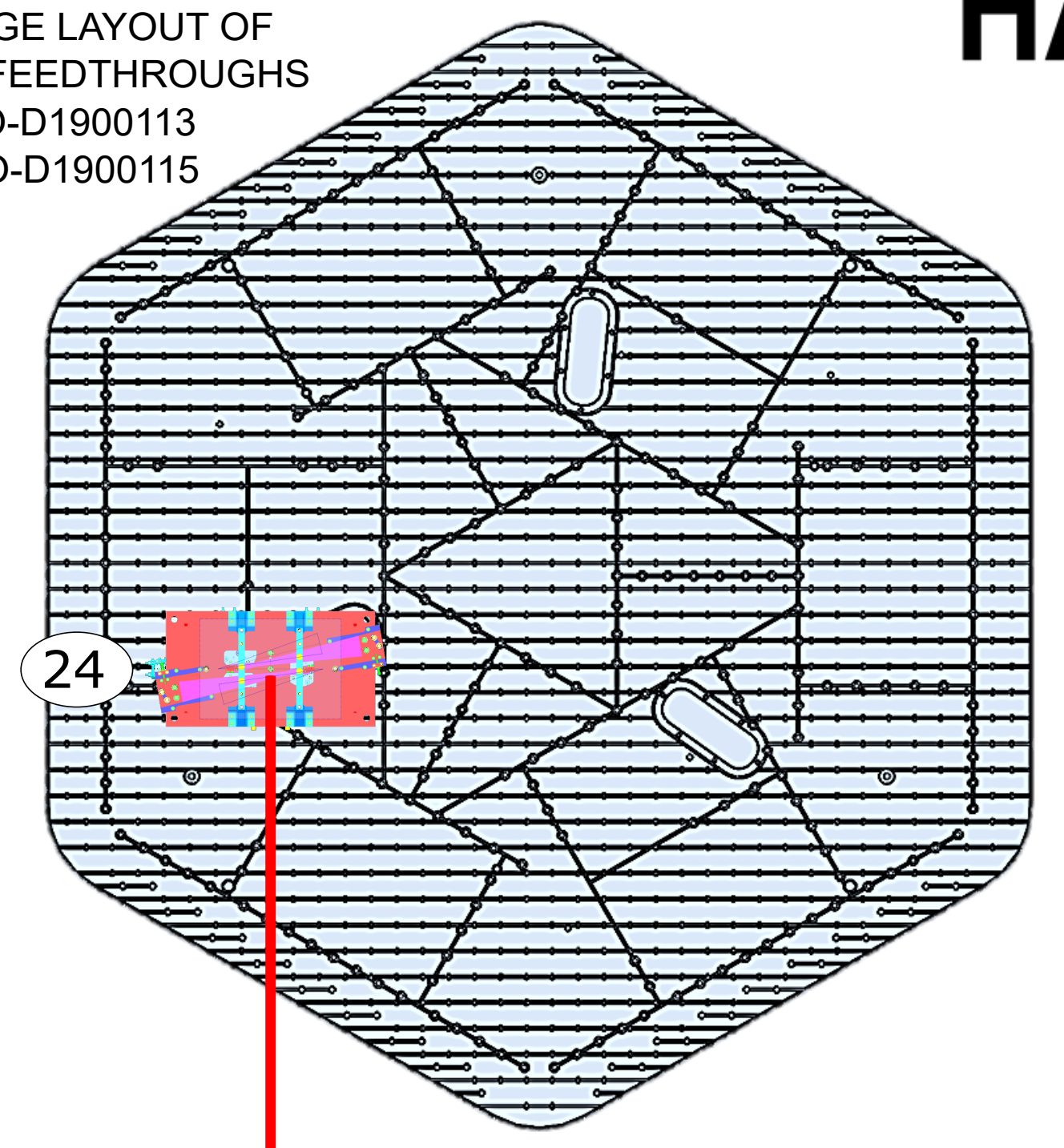
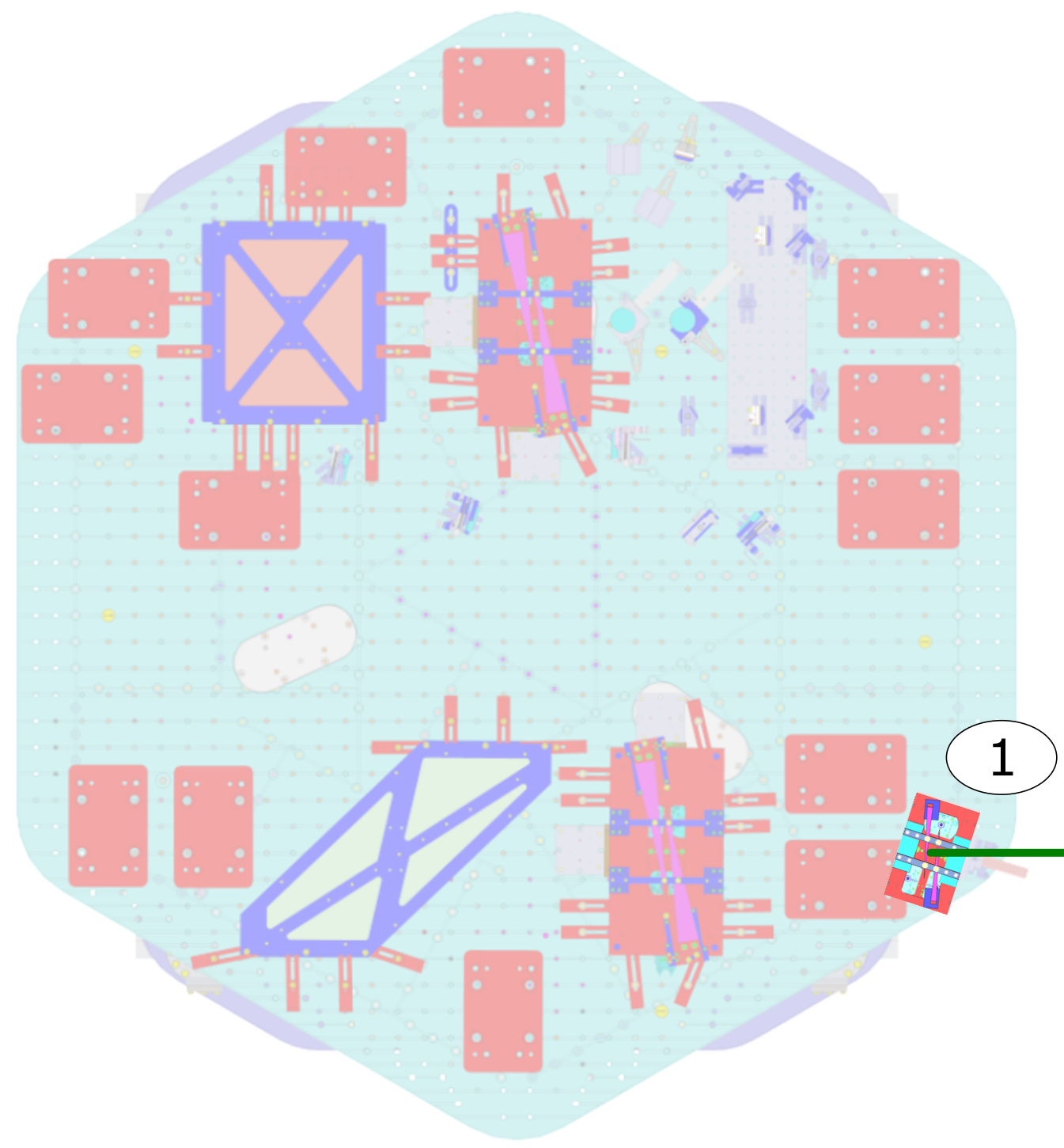


HAM8 FLANGE LAYOUT OF ELECTRICAL FEEDTHROUGHS
L1: LIGO-D1900113
H1: LIGO-D1900115

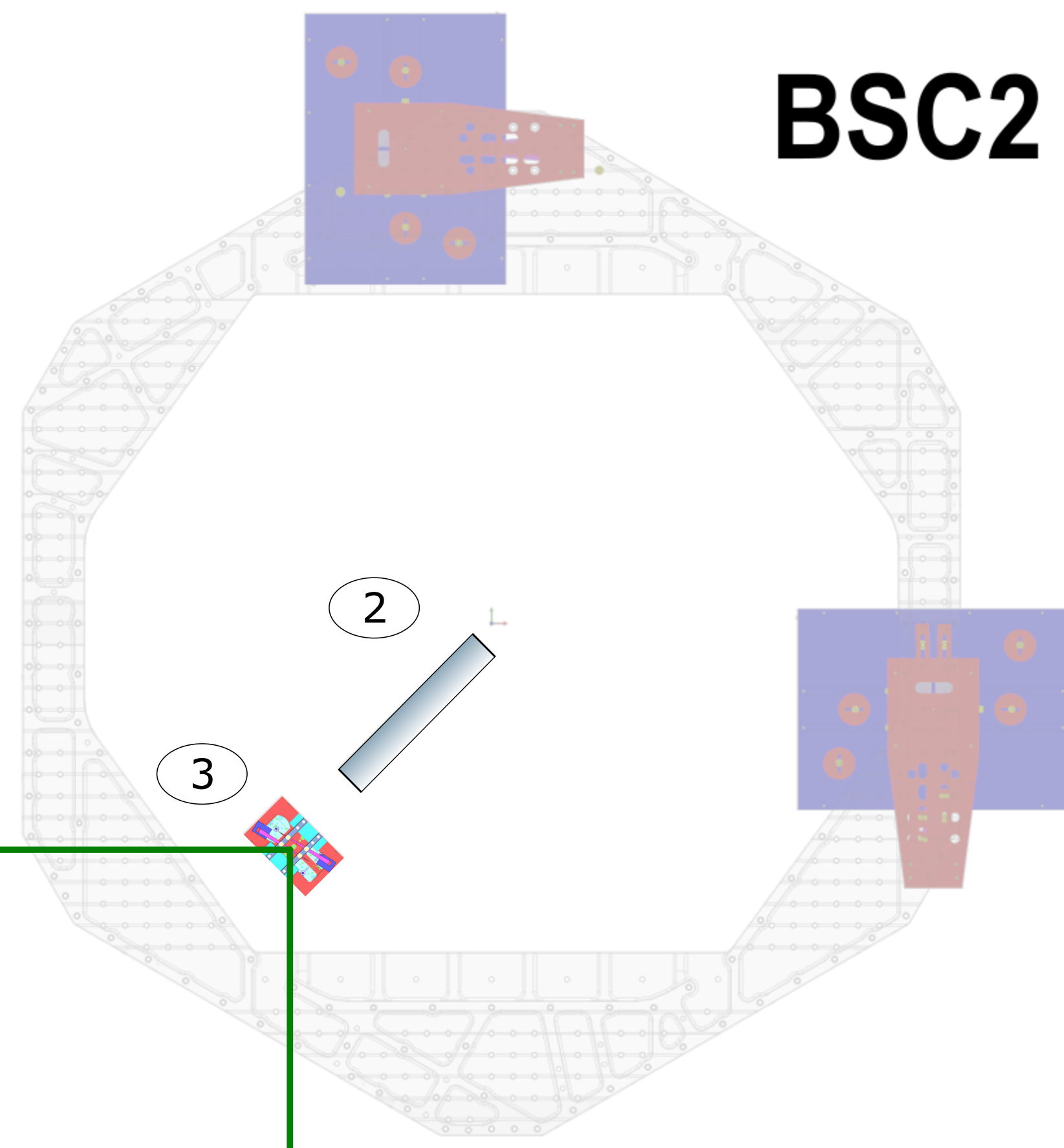


~300m long filter cavity

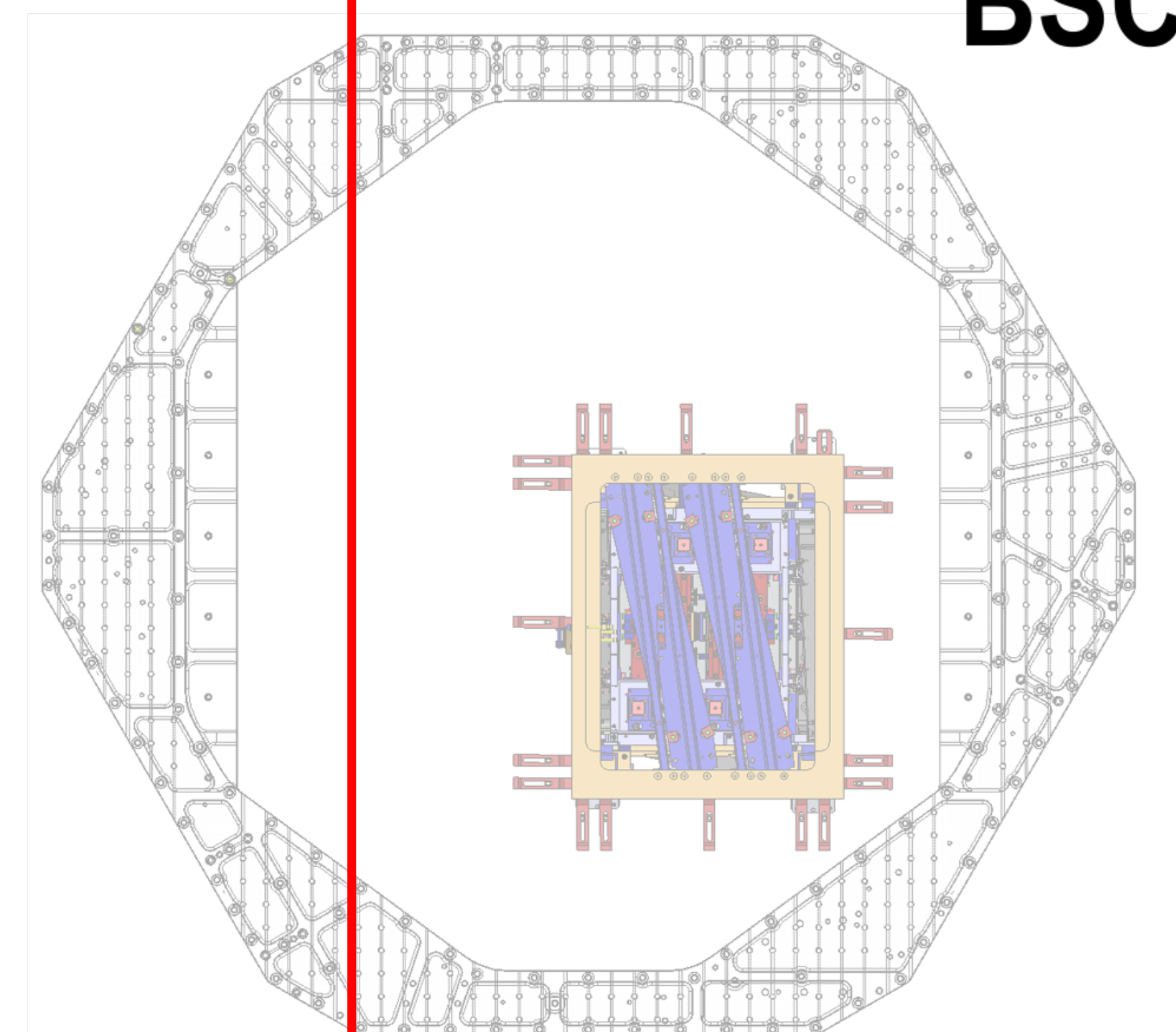
HAM3



BSC2



BSC3



LIGO-D1800027-v24

Page 1 of 2

A+ CONCEPTUAL DESIGN

Completed A+ integrated layout (for observing run O5)

DETAILS:

HAM3

- 1 BHDBS1 (HRTS WITH BS, LO BEAM)

BSC2

- 2 BS (BS 450mm DIAMETER)
- 3 BHDM1 (HRTS WITH MIRROR, LO BEAM)

HAM4

- 4 BHDL1 (HRTS WITH LENS, LO BEAM)

HAM5

- 5 ZM6 (TIP-TILT, SQUEEZER-WITH ECD BRACKET)
- 6 LOW LOSS FARADAY ISOLATOR

HAM6

- 7 BHDBS2 (HRTS)
- 8 OM0 (HRTS)
- 9 OMA1 } HAM DOUBLE SUSPENSION (HDS) +
- 10 OMA2 } ACTIVE MODE MATCHING STAGE (SAMS)
- 11 OMA3 } HAM DOUBLE SUSPENSION (HDS)
- 12 OMAS }
- 13 OMB1 } HDS + SAMS
- 14 OMB2 }
- 15 OMB3 (HDS) "REMOVE BRACKETS"
- 16 OMCA } ON SINGLE OMC PLATFORM
- 17 OMCB }

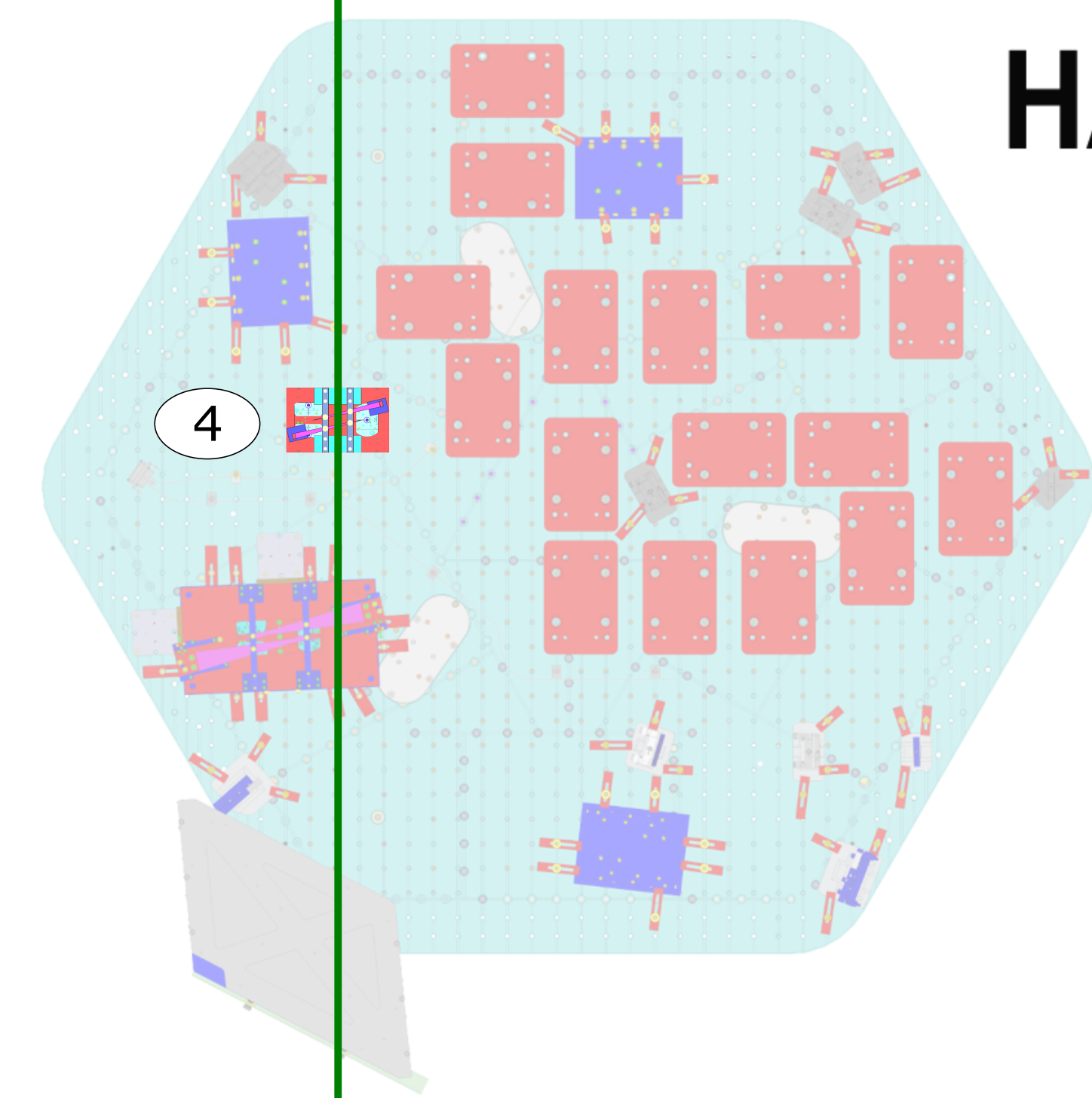
HAM7

- 18 ZM1 (TIP-TILT, SQUEEZER-WITH ECD BRACKET)
- 19 ZM2 (HDS + SAMS)
- 20 ZM3 (TIP-TILT, SQUEEZER)
- 21 ZM4 (HDS + SAMS)
- 22 ZM5 (HDS + SAMS)
- 23 FC1 (HSTS TRIPLE, FILTER CAVITY)

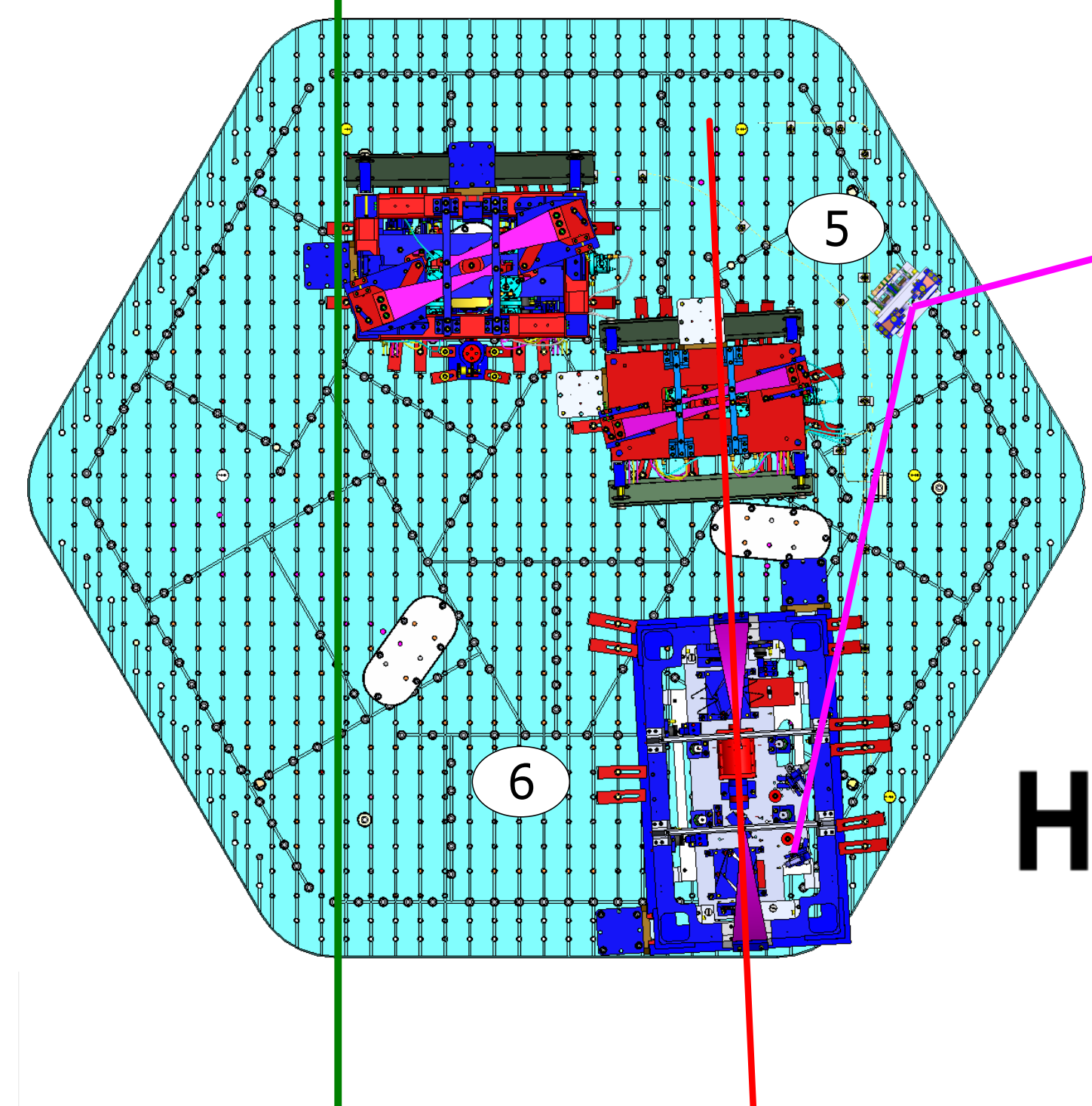
HAM8

- 24 FC2 (HSTS TRIPLE, FILTER CAVITY)

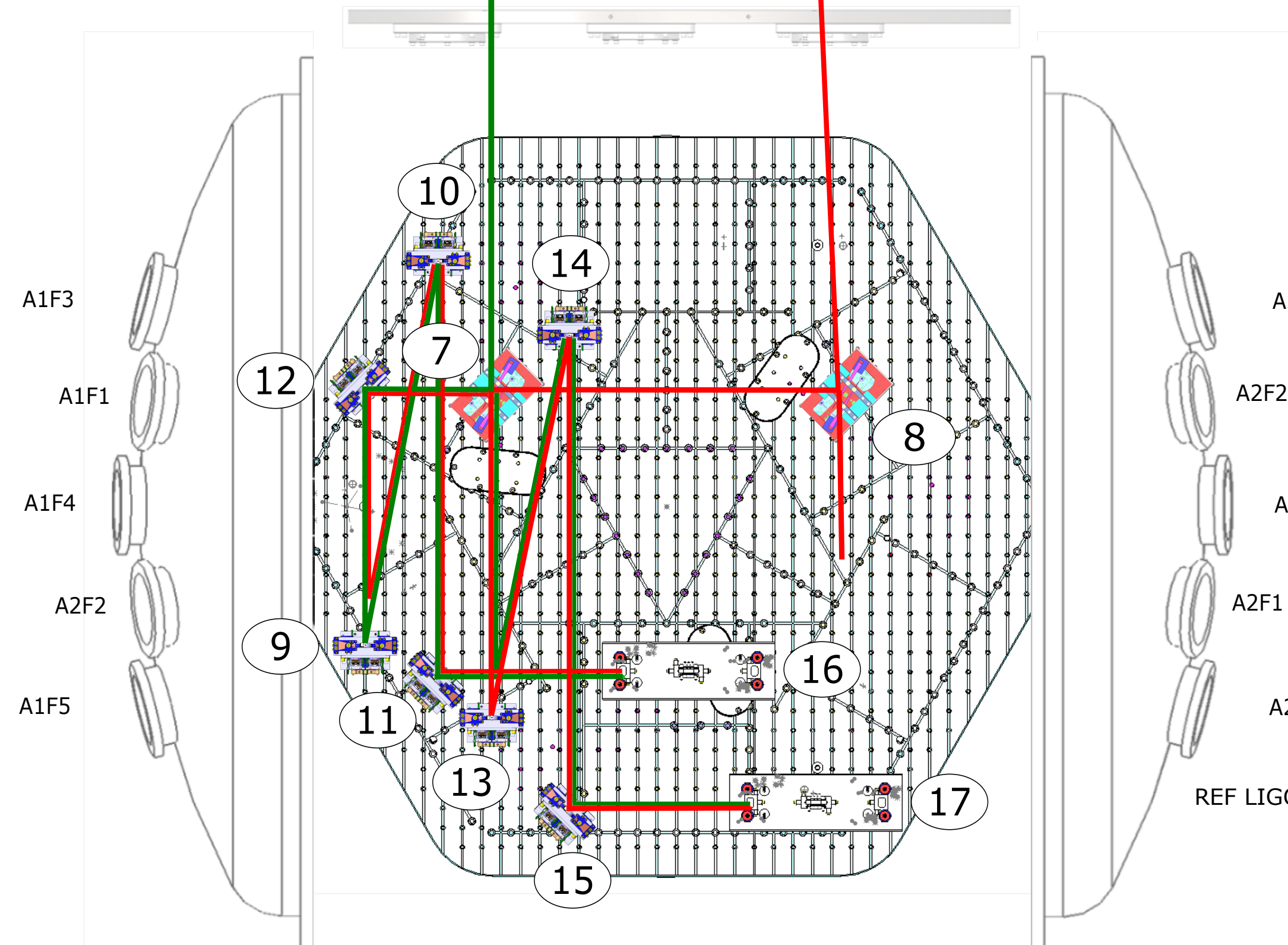
HAM4



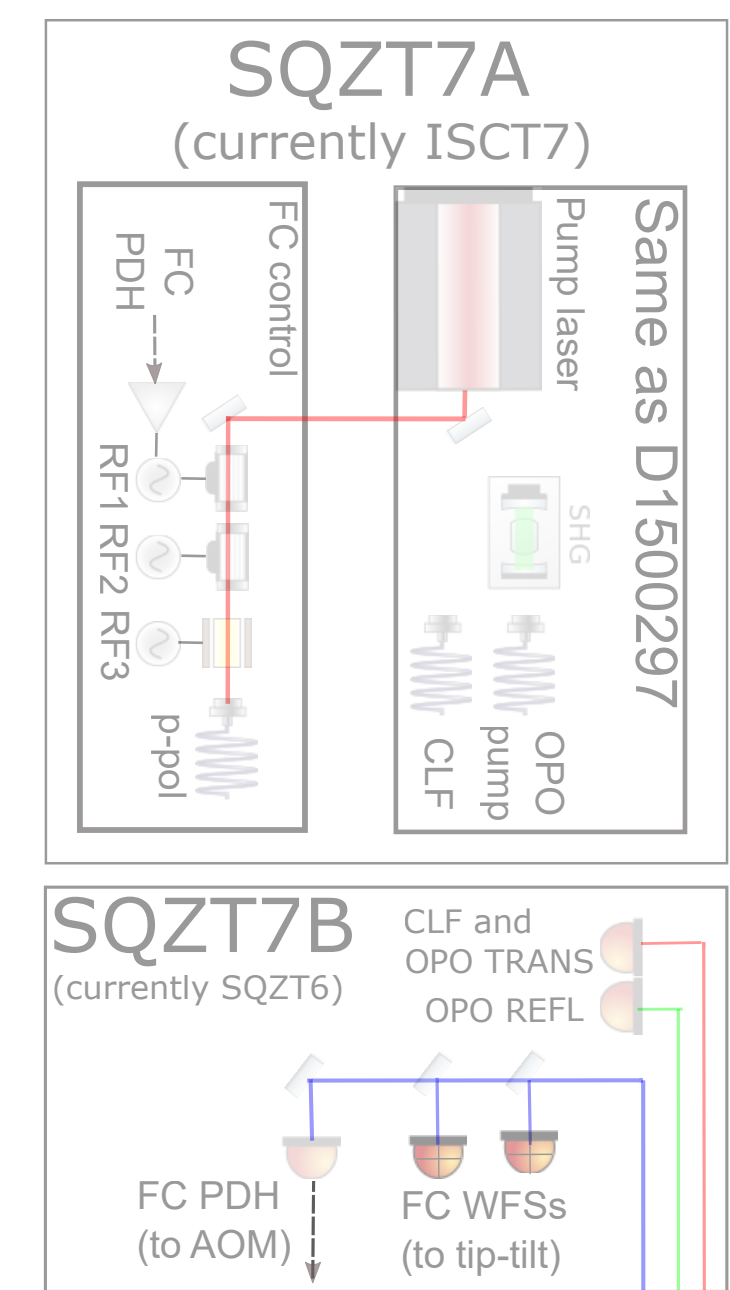
HAM5



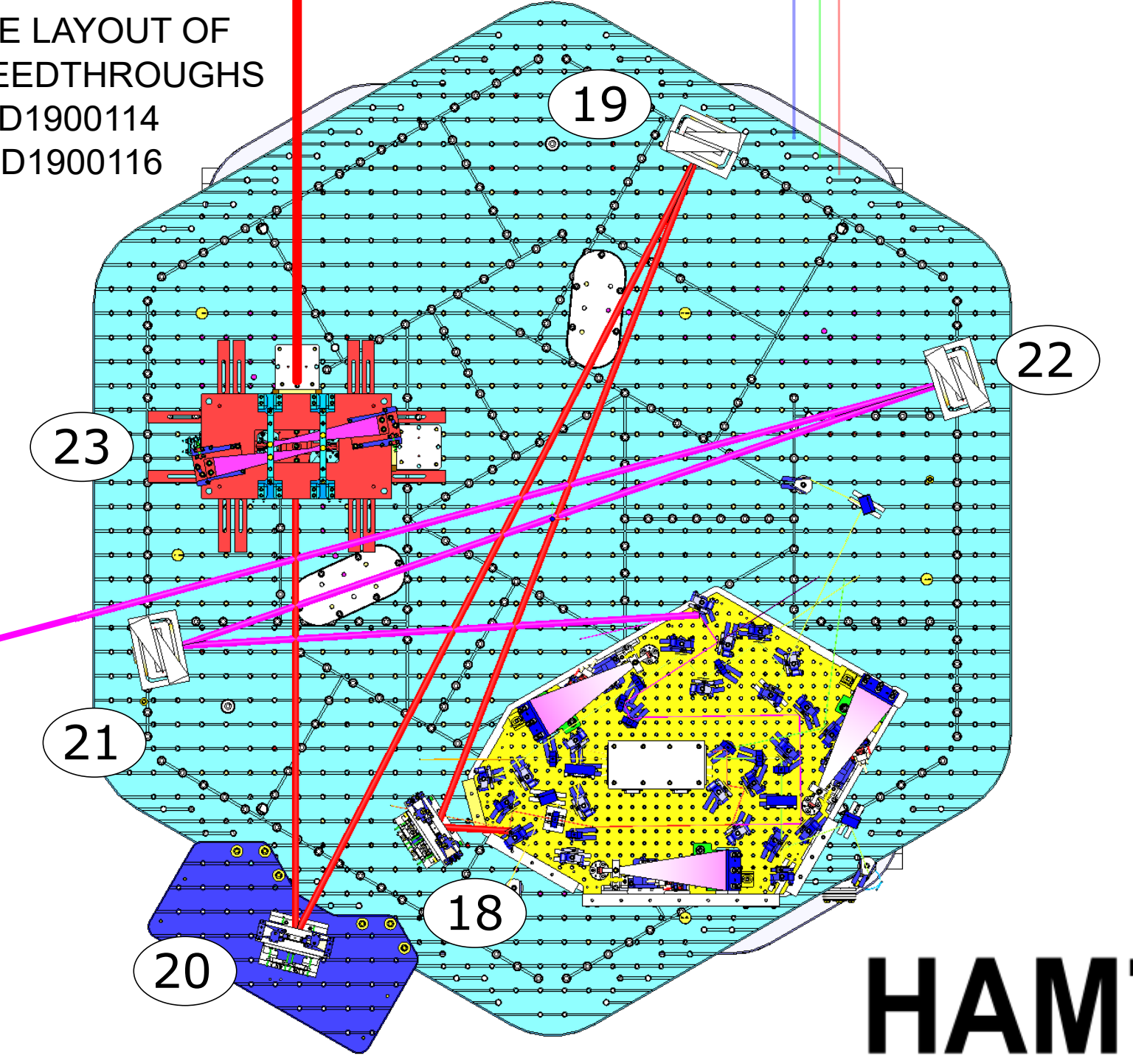
HAM6



HAM7 FLANGE LAYOUT OF ELECTRICAL FEEDTHROUGHS
L1: LIGO-D1900114
H1: LIGO-D1900116

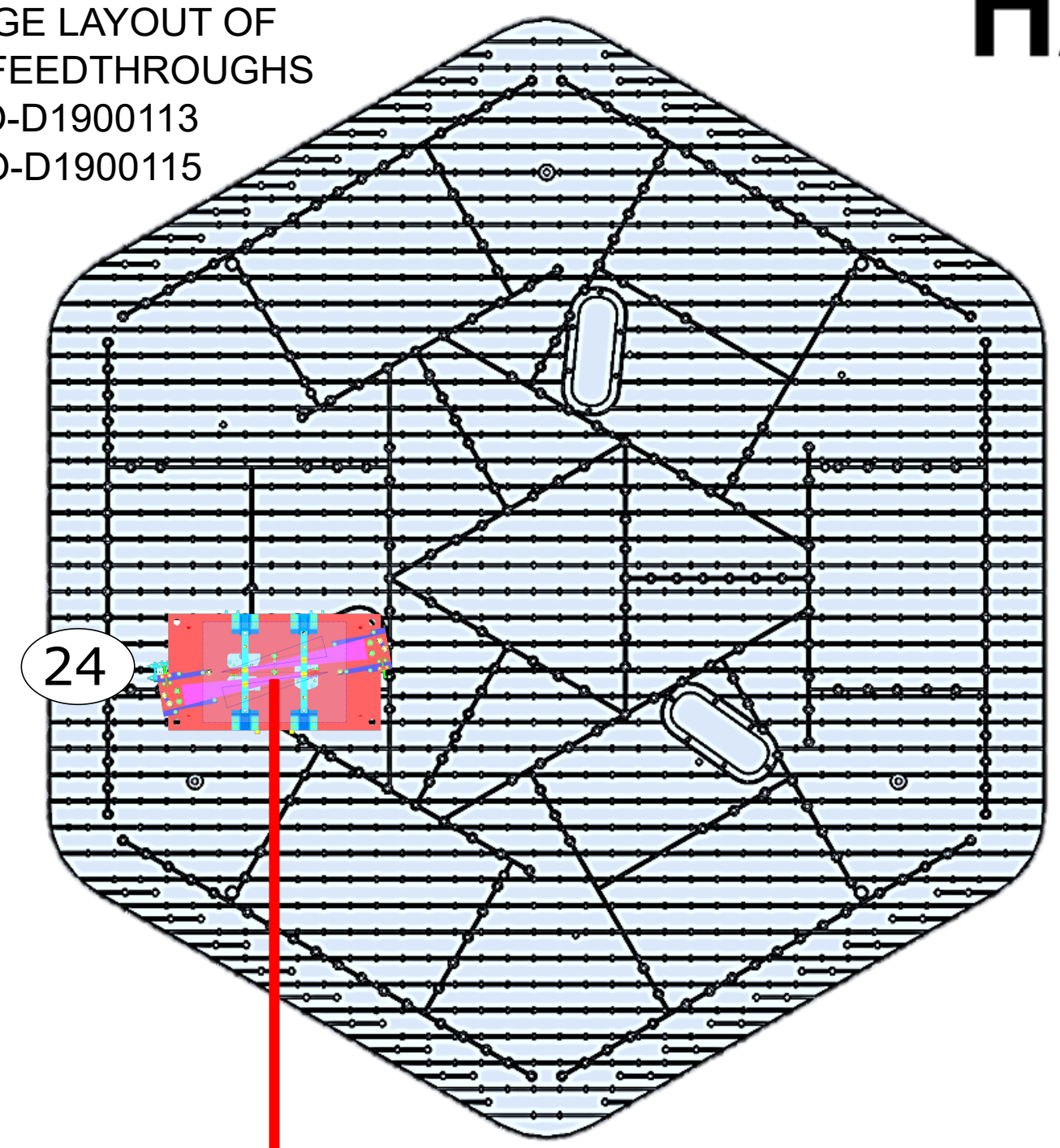


HAM7



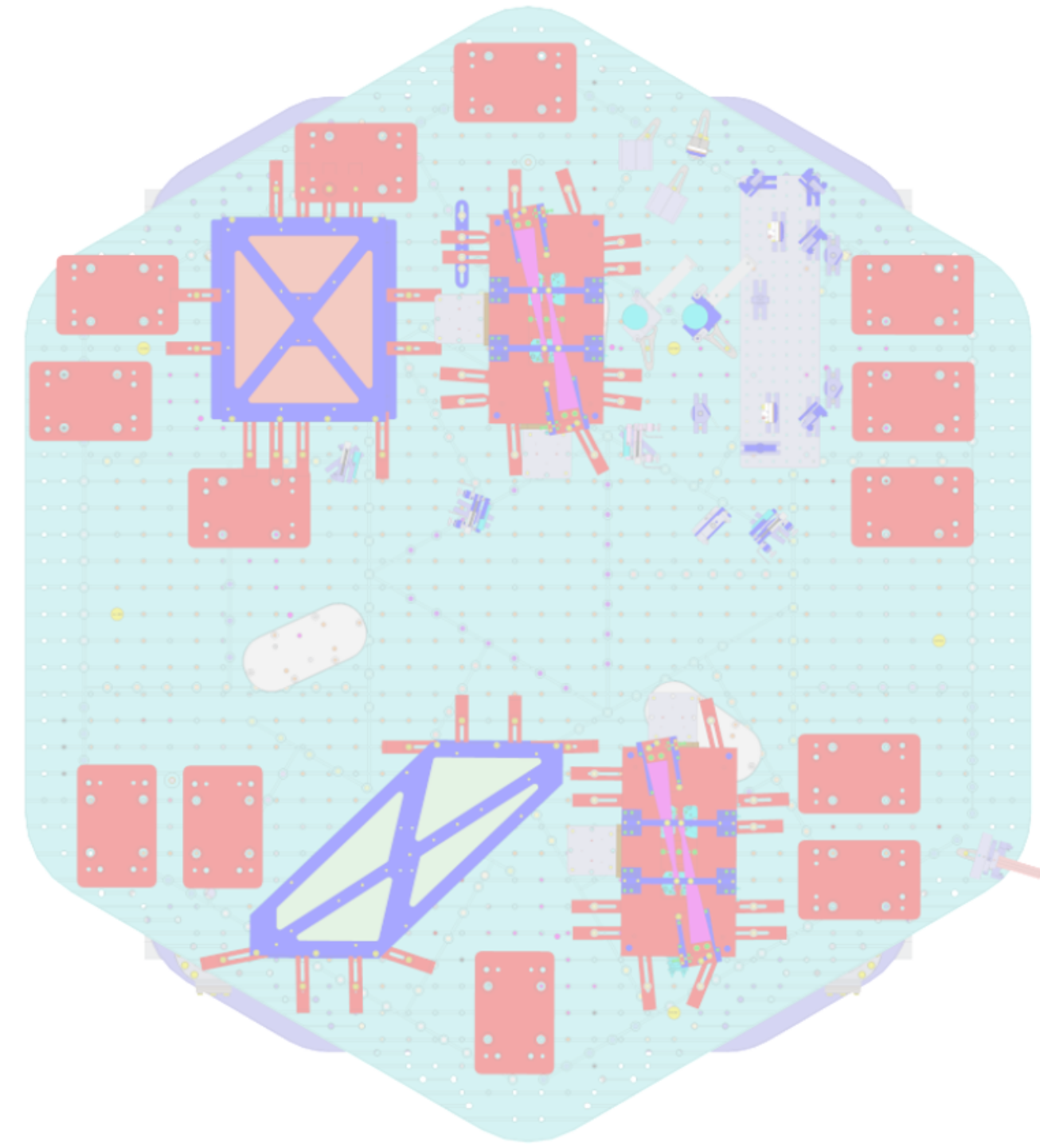
HAM8 FLANGE LAYOUT OF ELECTRICAL FEEDTHROUGHS
L1: LIGO-D1900113
H1: LIGO-D1900115

HAM8

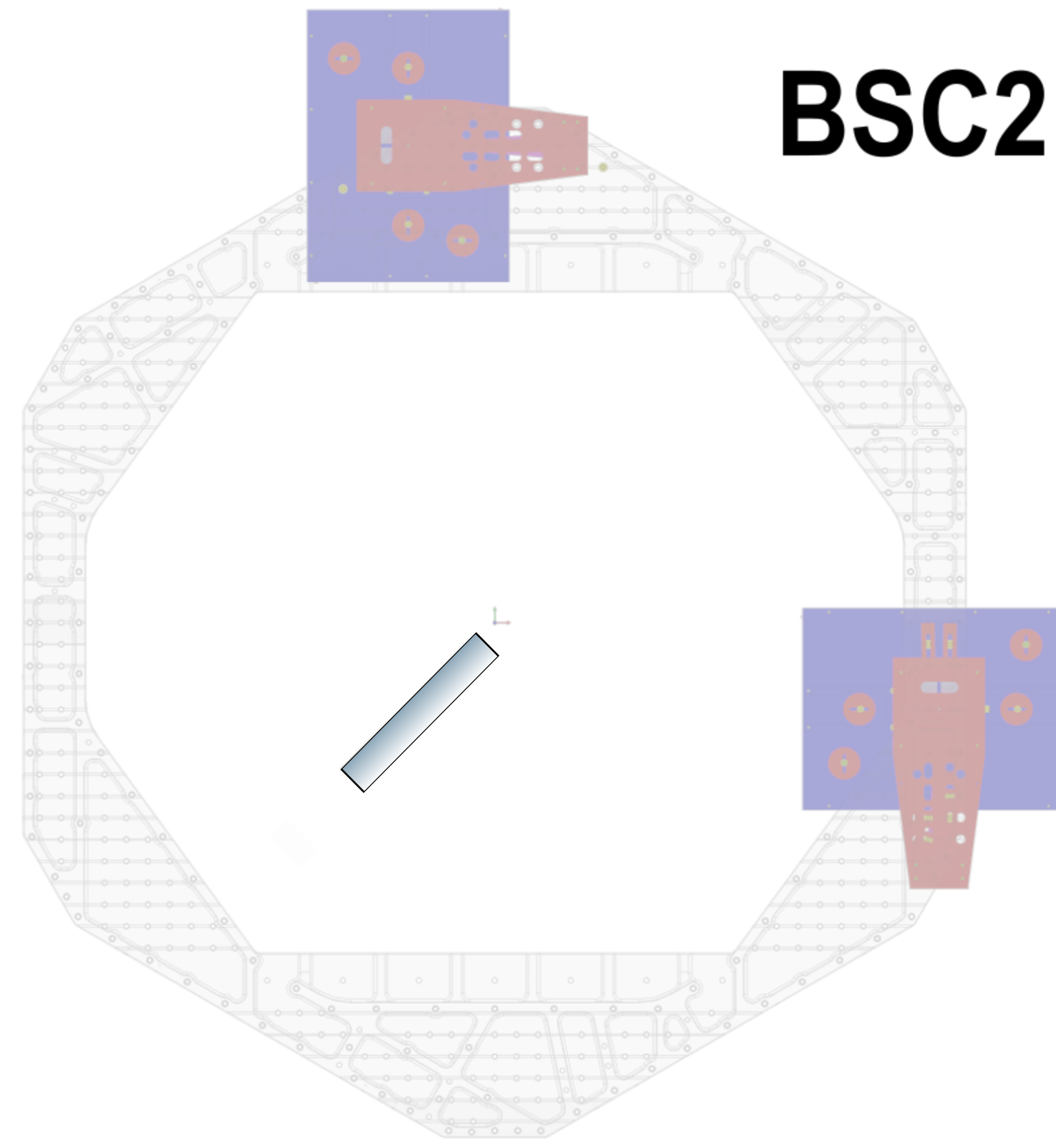


~300m long filter cavity

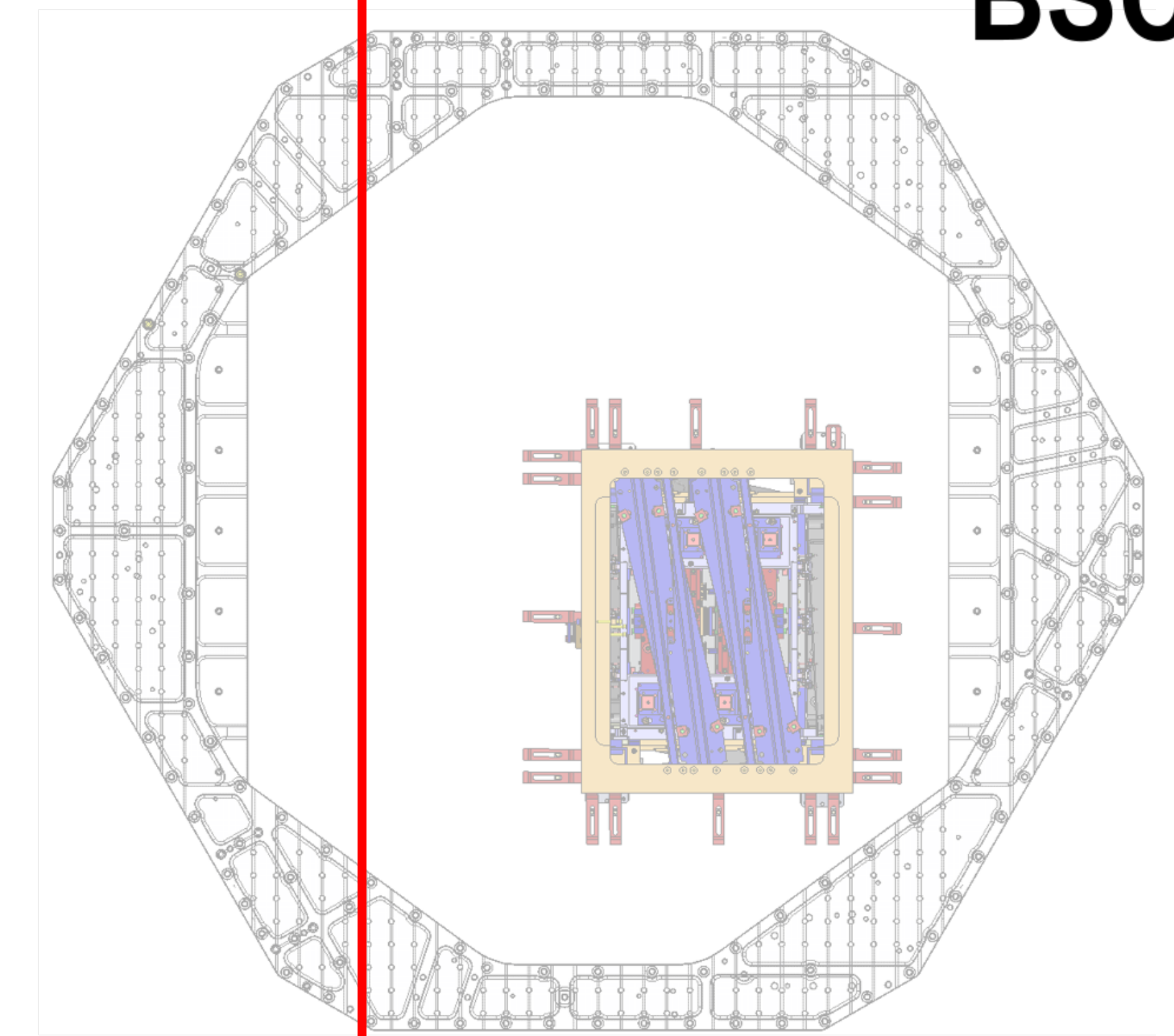
HAM3



BSC2



BSC3



LIGO-D1800027-v24
Page 2 of 2

A+ CONCEPTUAL DESIGN

Partial A+ integrated layout
(planned for observing run 04)

DETAILS:

HAM3

BSC2

HAM4

HAM5

- ⑤ ZM6 (TIP-TILT, SQUEEZER-WITH ECD BRACKET)
- ⑥ LOW LOSS FARADAY ISOLATOR

HAM6

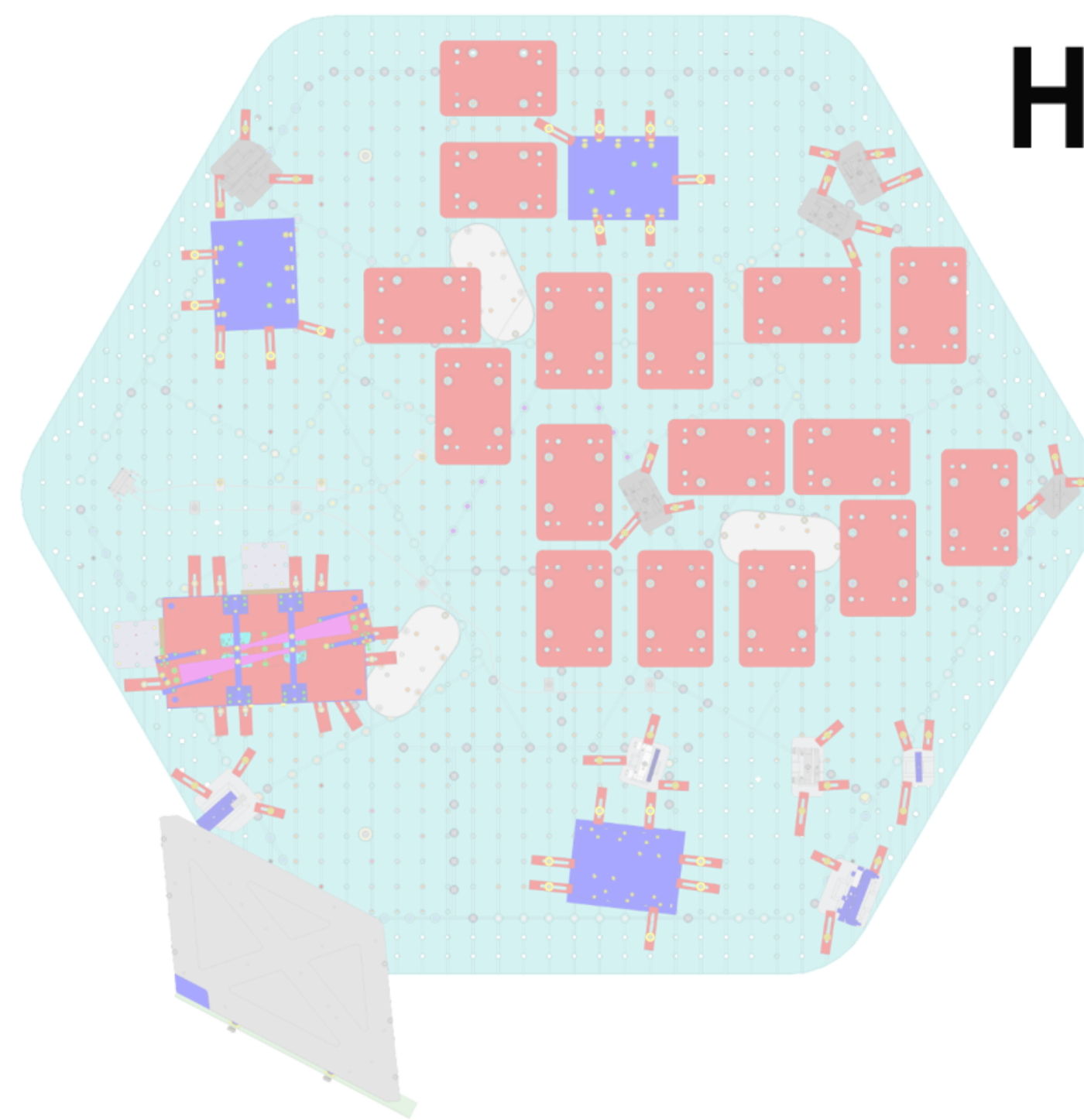
HAM7

- ⑱ ZM1 (TIP-TILT, SQUEEZER-WITH ECD BRACKET)
- ⑲ ZM2 (HDS + SAMS)
- ⑳ ZM3 (TIP-TILT, SQUEEZER)
- ㉑ ZM4 (HDS + SAMS)
- ㉒ ZM5 (HDS + SAMS)
- ㉓ FC1 (HSTS TRIPLE, FILTER CAVITY)

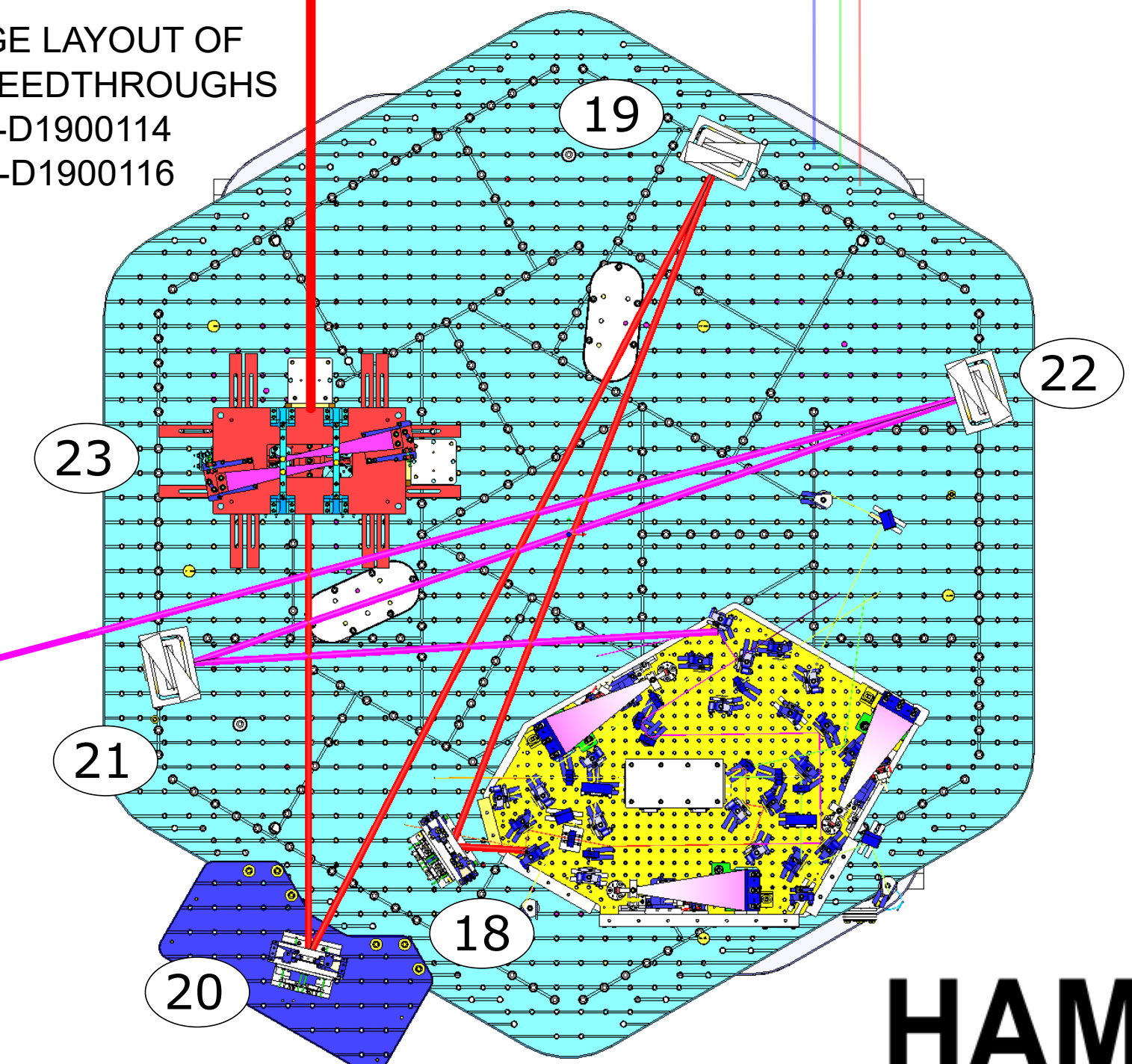
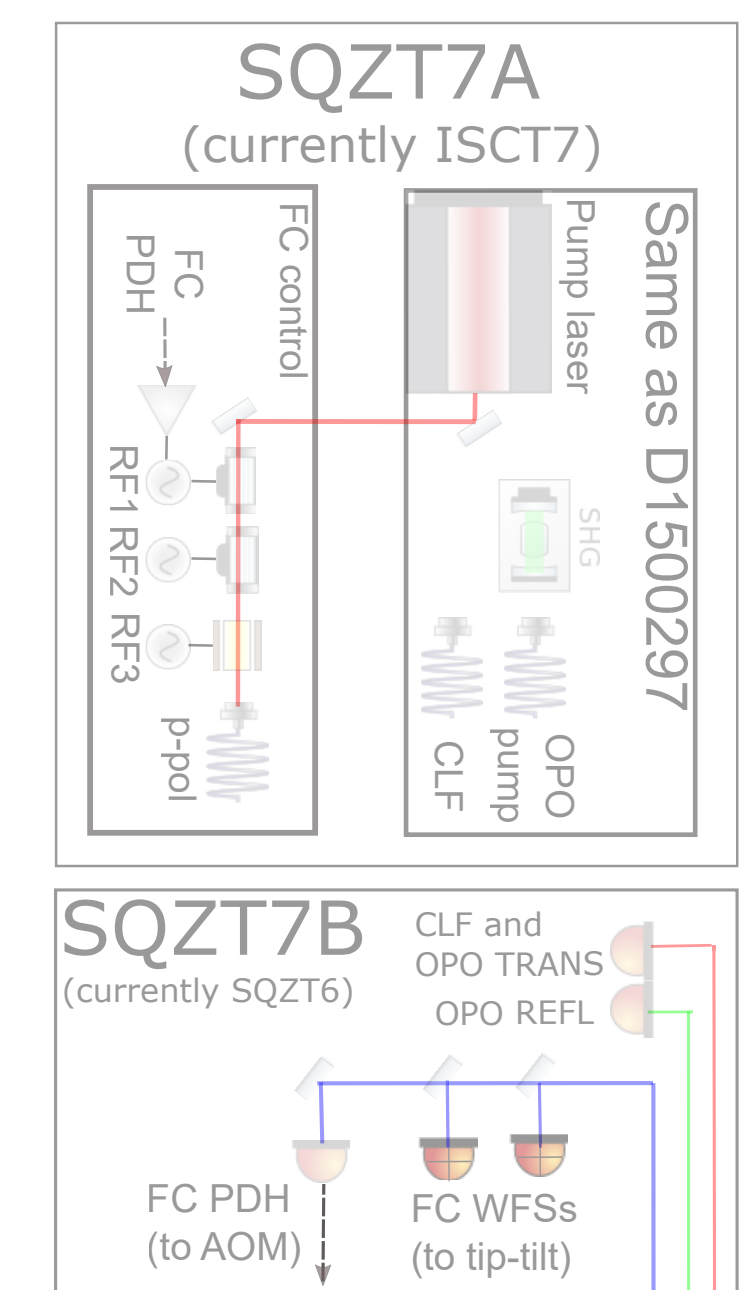
HAM8

- ⑳ FC2 (HSTS TRIPLE, FILTER CAVITY)

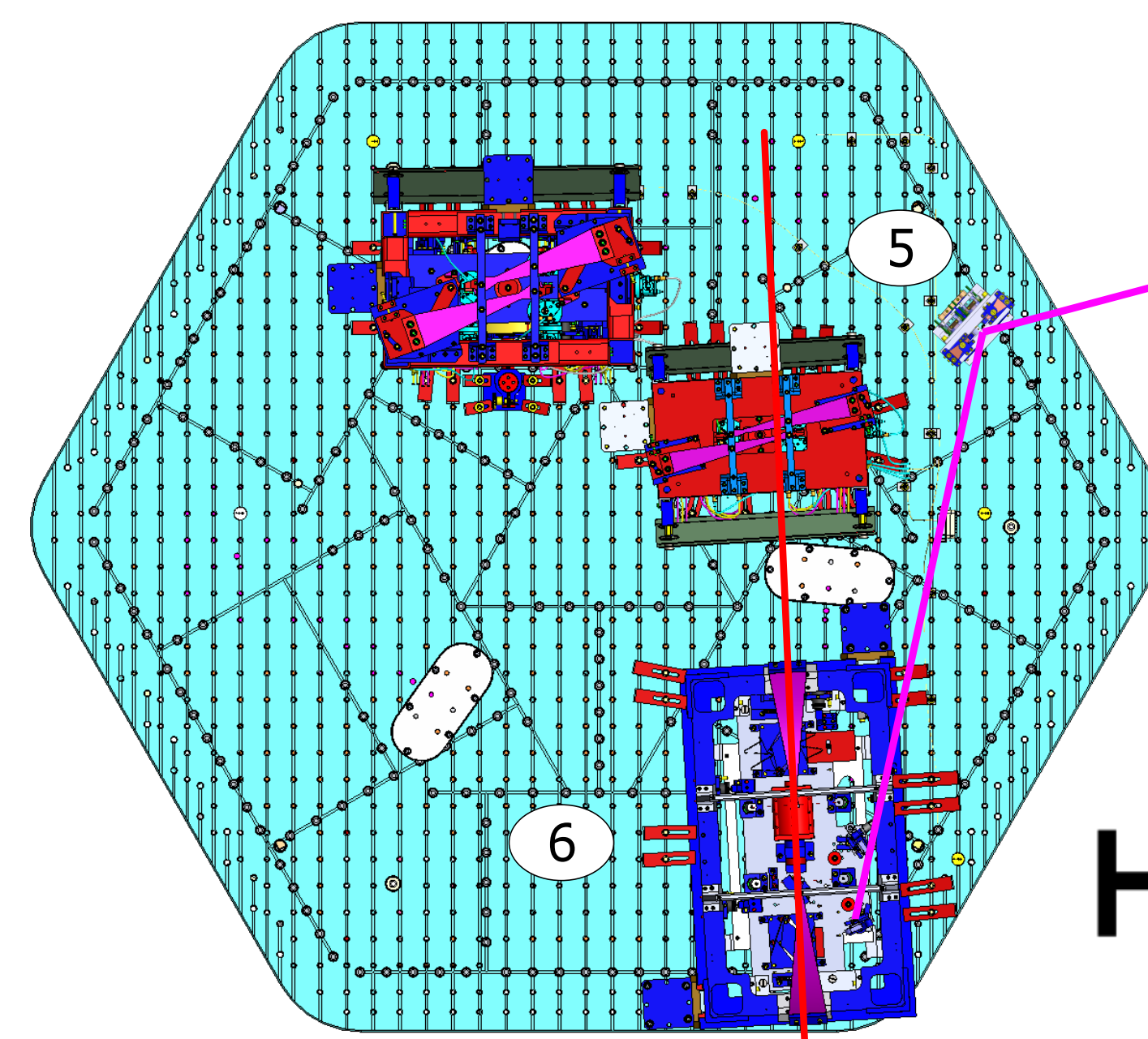
HAM4



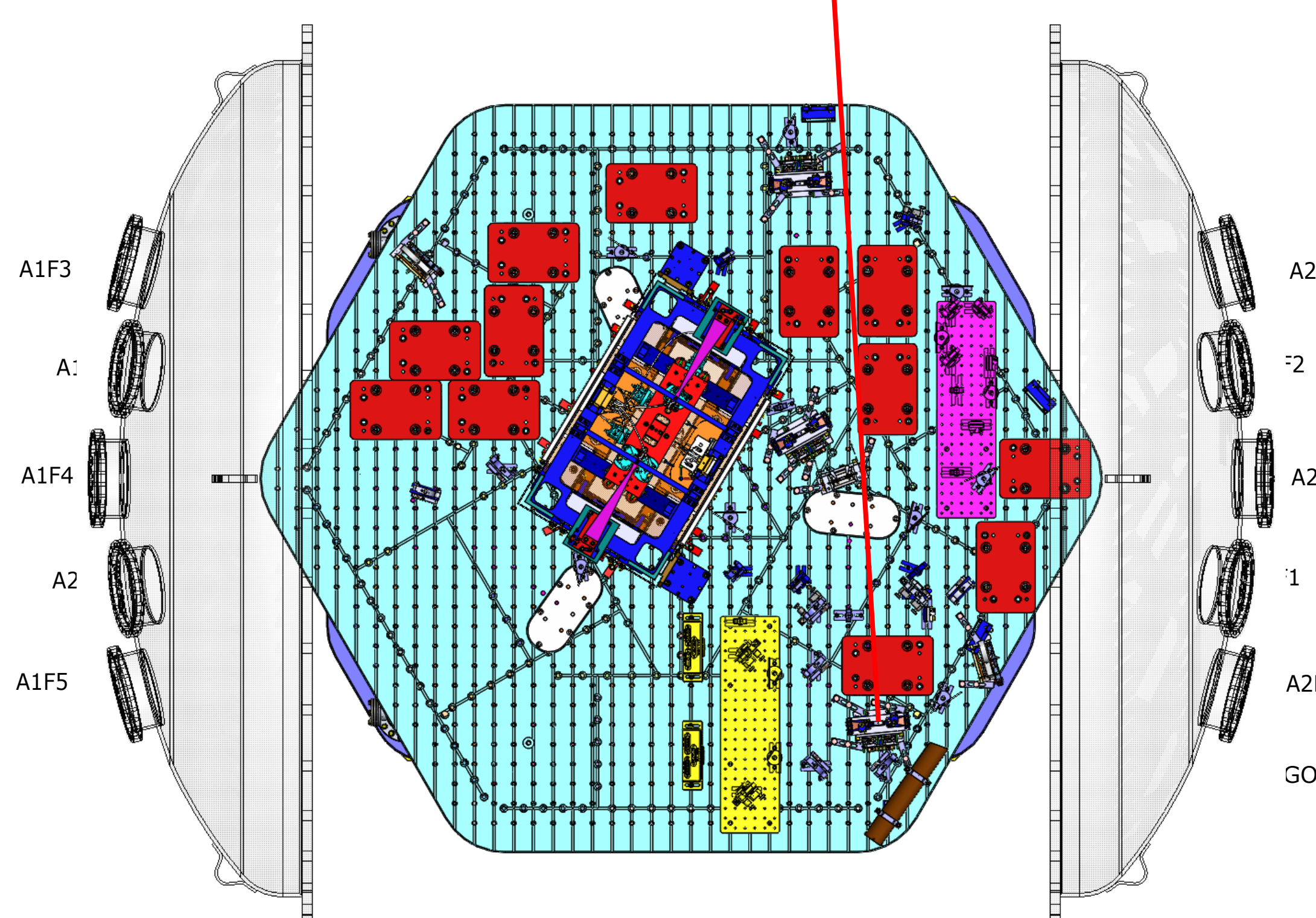
HAM7 FLANGE LAYOUT OF ELECTRICAL FEEDTHROUGHS
L1: LIGO-D1900114
H1: LIGO-D1900116



HAM7



HAM5



HAM6

GO-D0901812