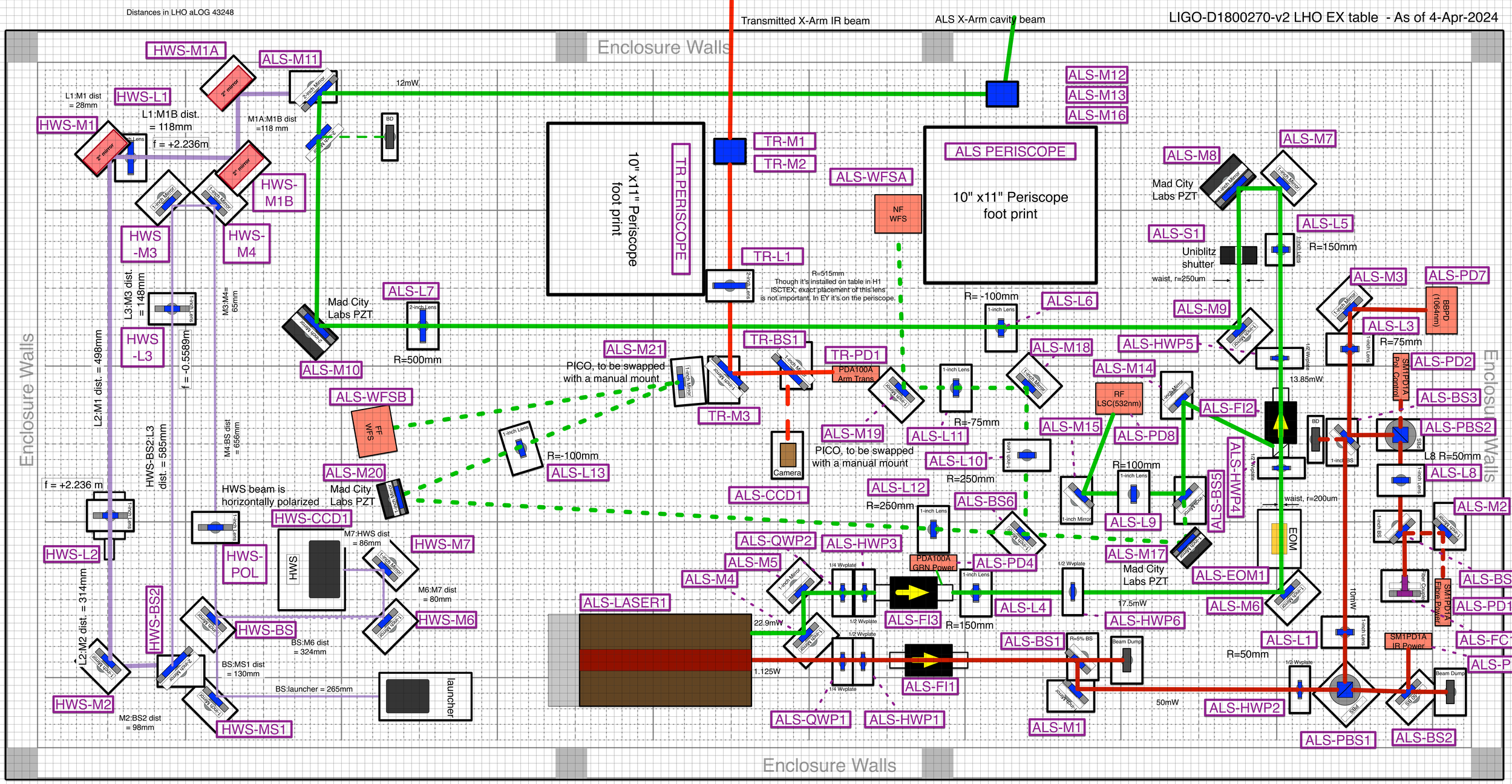
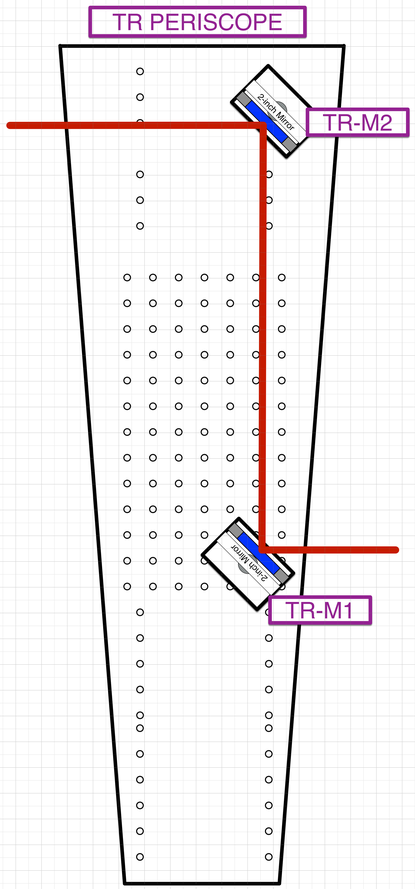
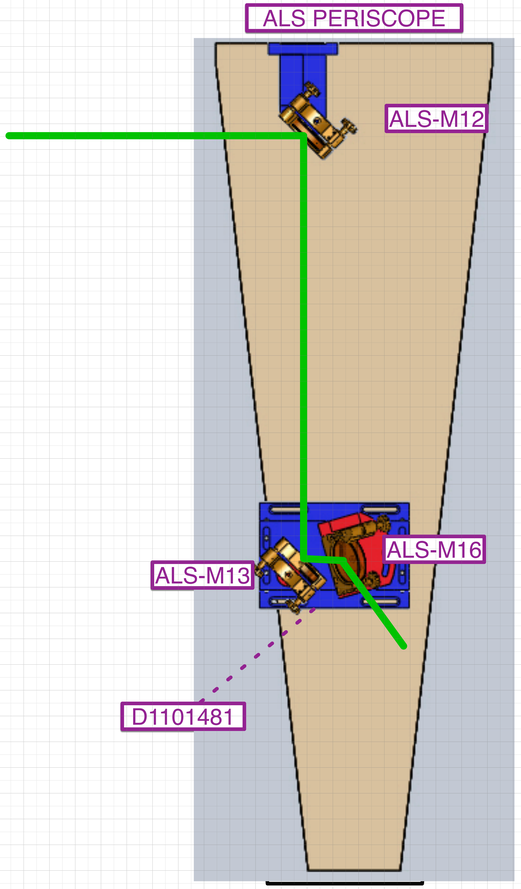

Distances in LHO aLOG 43248
LIGO-D1800270-v2 LHO EX table - As of 4-Apr-2024
Transmitted X-Arm IR beam
ALS X-Arm cavity beam
Enclosure Walls
HWS-M1A
ALS-M11
2" mirror
2-inch Mirror
12mW
L1:M1 dist = 28mm
HWS-L1
L1:M1B dist. = 118mm
f = +2.236m
M1A:M1B dist =118 mm
HWS-M1
2" mirror
1-inch Lens
1-inch Mirror
HWS-M1B
HWS -M3
HWS -M4
BD
TR-M1
TR-M2
TR PERISCOPE
10" x11" Periscope foot print
ALS PERISCOPE
10" x11" Periscope foot print
ALS-M12
ALS-M13
ALS-M16
ALS-WFSA
NF WFS
ALS-M8
Mad City Labs PZT
ALS-M7
ALS-S1
Uniblitz shutter
waist, r=250um
ALS-L5
R=150mm
TR-L1
R=515mm
Though it's installed on table in H1 ISCTEX, exact placement of this lens is not important. In EY it's on the periscope.
R= -100mm
ALS-L6
ALS-M3
ALS-PD7
BBPD (1064nm)
ALS-M9
ALS-HWP5
ALS-L3
R=75mm
L3:M3 dist. = 148mm
M3:M4= 65mm
HWS -L3
ALS-L7
Mad City Labs PZT
2-inch Lens
R=500mm
ALS-M10
TR-BS1
TR-PD1
PDA100A Arm Trans
ALS-M21
PICO, to be swapped with a manual mount
ALS-M18
ALS-M14
RF LSC(532nm)
13.85mW
SM1PD1A Pol Control
ALS-PD2
ALS-BS3
ALS-WFSB
FF WFS
TR-M3
ALS-M19
PICO, to be swapped with a manual mount
ALS-L11
R=-75mm
ALS-M15
ALS-PD8
ALS-FI2
ALS-PBS2
L2:M1 dist. = 498mm
HWS-BS2:L3 dist. = 585mm
M4:BS dist = 656mm
f = -0.5589m
R=-100mm
ALS-L13
Camera
ALS-L10
R=250mm
ALS-L8 R=50mm
ALS-L8
f = +2.236 m
HWS beam is horizontally polarized
ALS-M20
Mad City Labs PZT
ALS-CCD1
ALS-L12
R=250mm
ALS-BS6
R=100mm
ALS-L9
ALS-BS5
ALS-HWP4
waist, r=200um
ALS-M2
HWS-CCD1
M7:HWS dist = 86mm
HWS-M7
HWS-L2
HWS-POL
HWS
ALS-QWP2
ALS-HWP3
ALS-M5
ALS-M4
PDA100A GRN Power
ALS-PD4
ALS-M17
Mad City Labs PZT
EOM
ALS-EOM1
ALS-BS4
ALS-LASER1
22.9mW
ALS-FI3
R=150mm
ALS-L4
17.5mW
ALS-HWP6
ALS-M6
ALS-PD1
M6:M7 dist = 80mm
HWS-M6
HWS-BS2
HWS-BS
BS:M6 dist = 324mm
L2:M2 dist. = 314mm
BS:MS1 dist = 130mm
BS:launcher = 265mm
launcher
1.125W
ALS-BS1
R=5% BS
Beam Dump
ALS-L1
R=50mm
10mW
SM1PD1A Fibre Power
ALS-FC1
SM1PD1A IR Power
ALS-PD5
ALS-FI1
ALS-HWP2
50mW
HWS-M2
M2:BS2 dist = 98mm
HWS-MS1
ALS-QWP1
ALS-HWP1
ALS-M1
ALS-PBS1
ALS-BS2
4ft x 8ft optical table, scale = 1:1


TR PERISCOPE
2-inch Mirror
TR-M2
2-inch Mirror
TR-M1


ALS PERISCOPE
ALS-M12
ALS-M16
ALS-M13
D1101481

CAUTION!