



Jefferson Lab Alignment Group

Data Transmittal

TO: T. Whitlatch

DATE: 03/18/2022

FROM: LEB

Checked:

: D2029

DETAILS:

M:\align\DATA\Step2B\HallID\TAGGER\Hodoscope\220318A

Below are the results of the Hodoscope Plate survey from 17th March, 2022. The hodoscope ideals location are at the top upstream beam right corners of each hodoscope plate (see figure 1). Left side was not constructed, instead a sphere level was used to check roll. For the beam following values, a positive Z is downstream, a positive X is to the beam left, and a positive Y is above.

Meas. Plate	Corner	Mechanical Coord.			Beam Following Coord.		
		X[m]	Y[m]	Z[m]	dx[mm]	dy[mm]	dz[mm]
HODPL1	h1-top-br-ds	79.53679	104.77081	304.38324	0.14	0.01	0.99
	h1-top-br-us	79.71814	104.77080	303.09936	-0.08	0.00	-0.23
HODPL2	h2-top-br-ds	79.35526	104.77088	305.66653	0.12	0.08	0.39
	h2-top-br-us	79.53594	104.77085	304.38727	-0.13	0.05	-1.25
HODPL3	h3-top-br-ds	79.21487	104.77085	306.65800	-0.04	0.05	2.54
	h3-top-br-us	79.35458	104.77085	305.67065	0.04	0.05	1.04
HODPL4	h4-top-br-ds	79.06710	104.77089	307.70186	-0.18	0.09	0.17
	h4-top-br-us	79.21464	104.77081	306.66044	0.07	0.01	-0.09
HODPL5	h5-top-br-ds	78.92103	104.77088	308.73590	0.00	0.08	0.53
	h5-top-br-us	79.06715	104.77091	307.70338	0.10	0.11	-0.88
HODPL6	h6-top-br-ds	78.72942	104.77103	310.08751	-0.47	0.23	1.42
	h6-top-br-us	78.89810	104.77068	308.89962	0.20	-0.12	0.50
HODPL8	h8-top-br-ds	78.39640	104.77065	312.44442	-0.13	-0.15	0.19
	h8-top-br-us	78.52608	104.77067	311.56351	-0.14	-0.13	-1.21



Figure 1. Hodoscope Plate 1