



Jefferson Lab Alignment Group

Data Transmittal

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DATE: 24 Jan 2012

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Checked:

: D1431

DETAILS:

DATA: ..\Inspection\HallD\120113B

Below are the locations of the FDC rails on the Hall D platform. Values are in millimeters in a right handed system relative to the ideal beam position, with +X to the beam left, and +Y up. The ideal X is based on an I-Beam width of 170mm, and drawing D00000-05-00-1003 (-). The ideal Y is based on a value of 1038.2mm (3' 4⁷/₈") below beam. Point names follow the marks in the hall, with bl / br points being the left and right parts of the rail, and the integers (1, 4, 5, 22) being for elevation.

Beam Left Rail	Point	Measured Location (mm)			Ideals		Diff Ideal	
		X	Y	Z	X	Y	X	Y
	1	302.1	-1044.7	-361.6		-1038.2		-6.5
	1bl	379.6	-954.2	-398.9	390.0		-10.4	
	1br	209.2	-956.3	-403.3	219.6		-10.4	
	4	296.6	-1051.7	-1254.3		-1038.2		-13.4
	4bl	383.9	-962.2	-1361.4	390.0		-6.1	
	4br	215.0	-963.1	-1364.4	219.6		-4.6	
	5	295.0	-1051.9	-1550.8		-1038.2		-13.7
	5bl	384.5	-961.0	-1605.0	390.0		-5.5	
	5br	211.0	-963.3	-1604.5	219.6		-8.6	
	11bl	384.1	-960.6	-3371.4	390.0		-5.9	
	11br	213.5	-963.2	-3389.7	219.6		-6.1	
	17bl	386.7	-962.3	-5202.6	390.0		-3.3	
	17br	217.2	-964.7	-5209.2	219.6		-2.4	
	22	304.4	-1056.1	-6732.8		-1038.2		-17.9
	23bl	389.2	-966.2	-6959.4	390.0		-0.8	
	23br	219.4	-966.3	-6956.3	219.6		-0.2	
Beam Right Rail	1	-326.8	-1041.4	-370.9		-1038.2		-3.2
	1bl	-239.9	-950.1	-402.8	-219.6		-20.3	
	1br	-408.4	-952.9	-399.6	-390.0		-18.4	
	4	-319.7	-1046.8	-1253.5		-1038.2		-8.6
	4bl	-229.0	-956.4	-1339.6	-219.6		-9.4	
	4br	-397.5	-956.9	-1355.5	-390.0		-7.5	
	5	-312.4	-1047.7	-1544.3		-1038.2		-9.5
	5bl	-230.0	-956.9	-1599.8	-219.6		-10.4	
	5br	-399.7	-959.0	-1595.5	-390.0		-9.7	
	11bl	-226.3	-961.4	-3378.2	-219.6		-6.7	
	11br	-398.3	-962.0	-3374.9	-390.0		-8.3	
	17bl	-222.9	-961.5	-5205.0	-219.6		-3.3	
	17br	-394.3	-964.0	-5198.2	-390.0		-4.3	
	22	-307.5	-1054.1	-6729.6		-1038.2		-15.9
	23bl	-219.9	-962.8	-6947.0	-219.6		-0.3	
	23br	-392.2	-965.9	-6948.8	-390.0		-2.2	