



# Jefferson Lab Alignment Group

## Data Transmittal

**TO:** T. Carstens, T. Whitlach

**DATE:** 09/07/2016

**FROM:** Chris Curtis

**Checked:**

**# :** D1729

**DETAILS:**

Data: \Geonet\Data\HallD\SRV16

Below are the results of the recent elevation survey (Srv16) in the Hall D region compared to surveys carried out over the last 5.5 years. The surveys of the previous years were standardized such that the same monuments were used as baseline references. The location of the Hall D monuments can be seen in the accompanying diagram. All measurements are in meters.

TAGGER	Elev.	Diff 8/15	Diff 1/15	Diff 7/14	Diff 1/13	Diff 4/12	Diff 10/11	Diff 2/11
RNL0624	2102.8989			-0.0011				
RNL0630	2102.9136	-0.0003	-0.0001	-0.0010				
RNL0640	2102.9031	-0.0004	-0.0003	-0.0010	-0.0021	-0.0026	-0.0055	-0.0199
RNL0650	2102.9018	-0.0003	-0.0002	-0.0009	-0.0017	-0.0022	-0.0046	-0.0185
RNL0670	2102.9115	-0.0003	-0.0003	-0.0010	-0.0020	-0.0028	-0.0060	-0.0202
RNL0680	2102.9055	-0.0005	-0.0004	-0.0011		-0.0029	-0.0059	-0.0201
	<b>Months:</b>	<b>11.0</b>	<b>18.0</b>	<b>24.0</b>	<b>42.0</b>	<b>51.1</b>	<b>57.1</b>	<b>65.0</b>
<b>1σ = 0.12mm</b>	<b>Avg Floor:</b>	<b>-0.00036</b>	<b>-0.00025</b>	<b>-0.00100</b>	<b>-0.00195</b>	<b>-0.00266</b>	<b>-0.00549</b>	<b>-0.01967</b>
COL. CAVE	Elev.	Diff 8/15	Diff 1/15	Diff 7/14	Diff 1/13	Diff 4/12	Diff 8/11	Diff 2/11
RSD0020	2103.7140	-0.0004	-0.0011	-0.0015	-0.0023	-0.0022	-0.0028	-0.0054
RSD0030	2103.7215	-0.0003	-0.0010	-0.0014	-0.0022	-0.0021	-0.0026	-0.0047
RSD0040	2103.7227	-0.0004	-0.0010	-0.0015	-0.0022			
RSD0050	2103.7257	-0.0003	-0.0009	-0.0013	-0.0020			
RSD0060	2103.7232	-0.0003	-0.0009	-0.0013	-0.0019	-0.0017	-0.0017	-0.0020
RSD0070	2103.7290	-0.0003	-0.0009	-0.0012	-0.0019	0.0003	0.0004	0.0002
	<b>Months:</b>	<b>11.0</b>	<b>18.0</b>	<b>24.0</b>	<b>42.0</b>	<b>51.1</b>	<b>57.1</b>	<b>65.0</b>
<b>1σ = 0.20mm</b>	<b>Avg Floor:</b>	<b>-0.00035</b>	<b>-0.00097</b>	<b>-0.00138</b>	<b>-0.00208</b>	<b>-0.00142</b>	<b>-0.00167</b>	<b>-0.00298</b>
HALL D	Elev.	Diff 8/15	Diff 1/15	Diff 7/14	Diff 1/13	Diff 4/12	Diff 8/11	Diff 2/11
RSD0160	2101.1946	-0.0003	-0.0009	-0.0011	-0.0016	-0.0012	-0.0006	-0.0002
RSD0180	2101.2020	-0.0003	-0.0009	-0.0011	-0.0015	-0.0010	-0.0002	0.0001
RSD0320	2101.2087	-0.0001	-0.0008	-0.0013	-0.0015	-0.0012	-0.0005	-0.0003
RSD0360	2101.2090	-0.0002	-0.0006	-0.0010	-0.0012	-0.0011	-0.0005	0.0002
RSD0390	2101.2062	-0.0003	-0.0007	-0.0010	-0.0012	-0.0009	0.0000	0.0005
RSD0430	2101.2100	-0.0002	-0.0007	-0.0012		-0.0011	-0.0004	-0.0002
RSD0440	2101.2066	-0.0003	-0.0007	-0.0011	-0.0014	-0.0012	-0.0006	0.0000
RSD0480	2101.2083	-0.0003	-0.0009	-0.0010	-0.0014	-0.0010	0.0001	0.0005
	<b>Months:</b>	<b>11.0</b>	<b>18.0</b>	<b>24.0</b>	<b>42.0</b>	<b>51.1</b>	<b>57.1</b>	<b>65.0</b>
<b>1σ = 0.19mm</b>	<b>Avg Floor:</b>	<b>-0.00025</b>	<b>-0.00077</b>	<b>-0.00111</b>	<b>-0.00138</b>	<b>-0.00110</b>	<b>-0.00035</b>	<b>0.00007</b>

### HALL D MONUMENT LOCATIONS

