

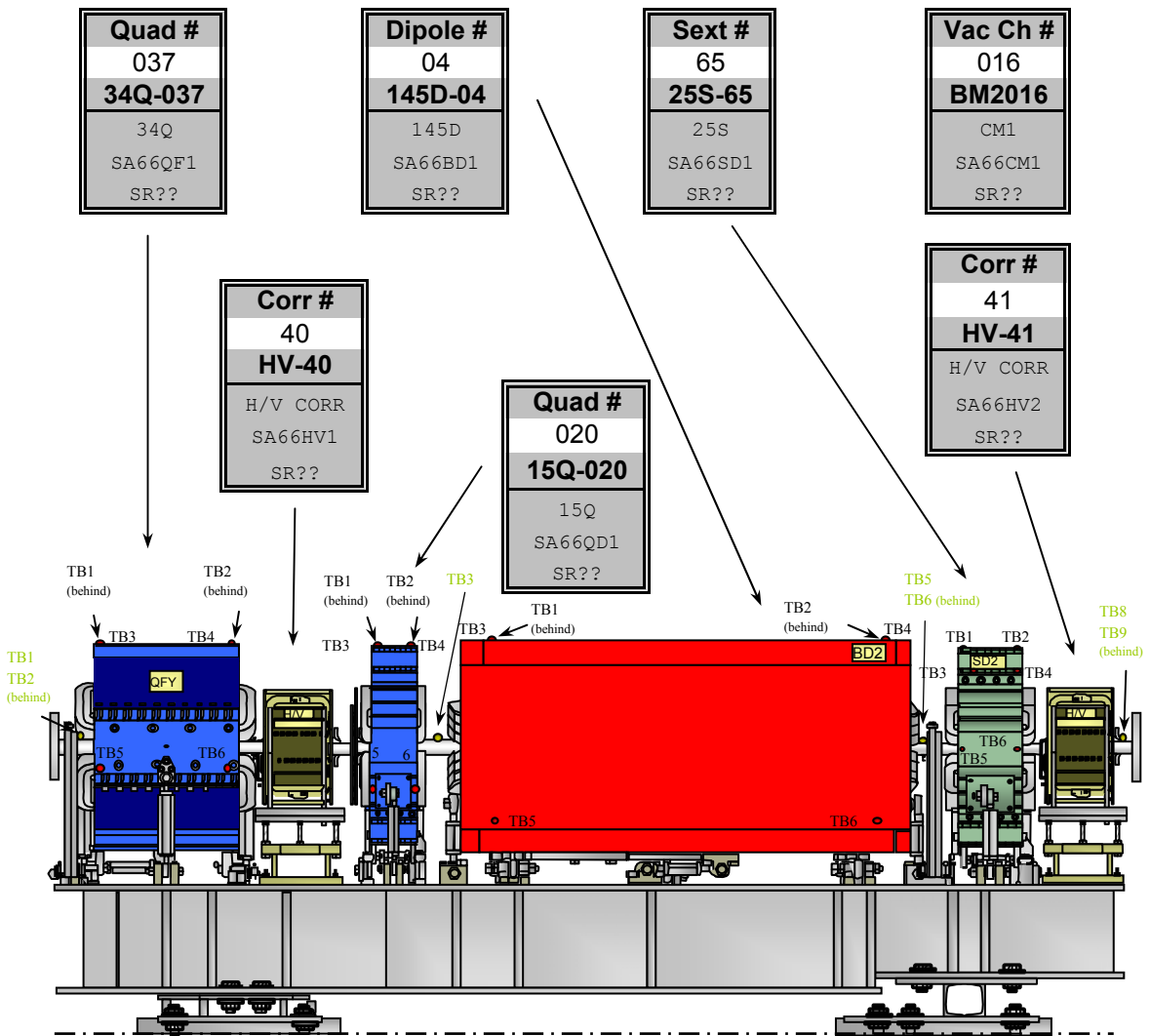
*Raft Description:*

**Date** November 8, 2002

<b>Raft #</b> 66 145D-66	<b>Type</b> 1 145D T-1	<b>Bld. 750 Name</b> SA66	<b>S3 Ring Name</b> SR??
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**Notes:**

The above date represents the latest fiducial date of all components listed below.



**Quadrupole: Fiducial Values for Upstream (34Q) Quadrupole**

Fiducial	Z	X	Y
TB1	-6.304	11.245	16.201
TB2	6.290	11.230	16.200
TB3	-6.318	-11.248	16.200
TB4	6.347	-11.251	16.198
TB5	-5.165	-15.201	-4.838
TB6	4.675	-15.201	-4.860

inches inches inches

QUADRUPOLE  
**34Q-037**

SA66QF1  
SR??

9/6/01

**Description:**  
Fiducials based on values posted on web-page. (Check for updates.)

**Vacuum Chamber: Fiducial Values for BM2 Vacuum Chamber**

Fiducial	Z	X	Y
TB1	-77.159	-6.222	4.373
TB2	-77.216	7.229	4.391
TB3	-34.895	-0.027	4.364
TB4	0.342	3.795	2.391
TB5	34.514	-4.640	4.393
TB6	35.775	2.413	4.393
TB7	53.883	-4.264	2.408
TB8	58.034	-12.401	2.953
TB9	60.995	3.028	2.931
TB0	N/A	N/A	N/A

inches inches inches

VACUUM CHAMBER  
**BM2016**

SA66CM1  
SR??

11/8/02

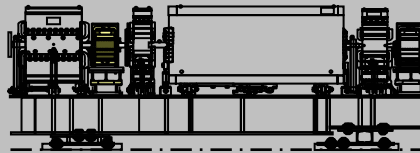
**Description:**  
Fiducials based on values posted on web-page. (Check for updates.)

**HV1 Corrector: Fiducial Values for Corrector**

Fiducial	Z	X	Y
1	-0.003	-0.323	-10.196
2	-0.002	-10.046	-10.205
A	0.000	-20.003	0.000
B	0.000	-20.003	0.000
C	0.000	-20.003	0.000
D	0.000	-20.003	0.000
E	0.000	0.000	17.935
F	0.000	0.000	17.935

inches          inches          inches

**HV1 CORRECTOR  
HV-40**



SA66HV1  
SR??

**No Date**

**Description:**

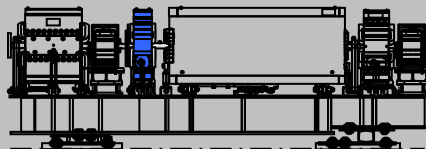
Fiducials based on known nominal values.

**Quadrupole: Fiducial Values for Upstream (15Q) Quadrupole**

Fiducial	Z	X	Y
TB1	-2.589	11.245	16.199
TB2	2.577	11.248	16.200
TB3	-2.581	-11.244	16.200
TB4	2.568	-11.260	16.202
TB5	-1.468	-15.198	-4.790
TB6	2.486	-15.198	-4.788

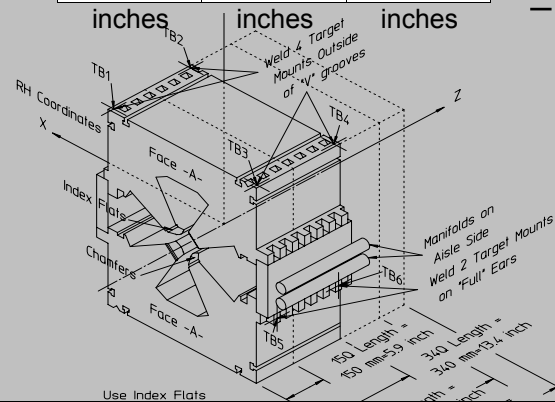
inches          inches          inches

**QUADRUPOLE  
15Q-020**



SA66QD1  
SR??

**8/8/01**



**Description:**

Fiducials based on values posted on web-page. (Check for updates.)

**Gradient Dipole: Fiducial Values for Dipole (145D)**

Fiducial	Z	X	Y
TB1	-26.555	3.431	16.999
TB2	26.506	3.438	17.004
TB3	-26.565	-22.406	16.997
TB4	26.533	-22.412	16.996
TB5	-26.487	-24.245	-11.759
TB6	26.498	-24.264	-11.636

inches inches inches

**GRADIENT DIPOLE**  
**145D-04**

SA66BD1  
SR??

5/15/01

**Description:**  
Fiducials based on values posted on web-page. (Check for updates.)

**Sextupole: Fiducial Values for 25S Sextupole**

Fiducial	Z	X	Y
TB1	-4.491	4.203	15.506
TB2	4.306	4.202	15.509
TB3	-4.426	-10.512	12.529
TB4	3.449	-10.491	12.542
TB5	-4.563	-15.063	0.032
TB6	4.534	-15.063	0.095

inches inches inches

**SEXTUPOLE**  
**25S-65**

SA66SD1  
SR??

8/9/01

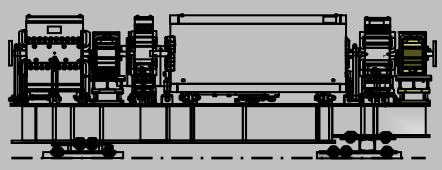
**Description:**  
Fiducials based on values posted on web-page. (Check for updates.)

**HV2 Corrector: Fiducial Values for Corrector**

Fiducial	Z	X	Y
1	-0.003	-0.323	-10.196
2	-0.002	-10.046	-10.205
A	0.000	-20.003	0.000
B	0.000	-20.003	0.000
C	0.000	-20.003	0.000
D	0.000	-20.003	0.000
E	0.000	0.000	17.935
F	0.000	0.000	17.935

inches          inches          inches

**HV2 CORRECTOR**  
**HV-41**



SA66HV2  
SR??

No Date

**Description:**  
Fiducials based on known nominal values.

**Building 750 Deck: Positions of Component Origins**

750 Name	Z	X	Y	Yaw
SA66QF1	-4.114	-3.811	0.000	10.5882
SA66QD1	-3.485	-3.694	0.000	10.5882
SA66CM1	-2.450	-3.500	0.000	10.5882
SA66BD1	-2.447	-3.534	0.000	5.2941
SA66SD1	-1.367	-3.500	0.000	0.0000

meters          meters          meters          degrees

Date of Deck File: March 10, 2003

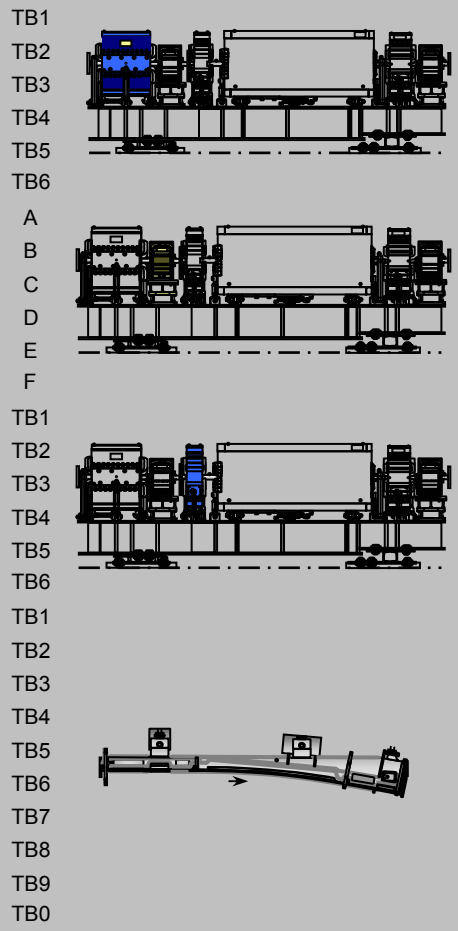
Location of Raft: WEST 145D-66

**Description:**  
Deck coordinates representing origin of the specific component's coordinate system.

**Building 750 As-Built: (TABLE 1 of 2)**

750 Name	delta Z	delta X	delta Y ( delta H )
SA66QF1	0.009	0.001	-0.002
	0.009	-0.001	-0.001
	-0.003	0.008	0.002
	0.003	-0.003	-0.001
	-0.012	0.000	0.002
	-0.013	-0.003	0.001
SA66HV1		0.005	
		0.003	
		-0.011	
		-0.002	
			-0.008
			-0.010
SA66QD1	0.002	0.001	-0.001
	0.004	0.001	-0.001
	0.011	-0.002	0.000
	0.013	-0.003	-0.003
	0.002	-3.005	0.002
	0.002	-0.004	-0.003
SA66CM1	N/A	N/A	N/A
	N/A	N/A	N/A
	N/A	N/A	N/A
	N/A	N/A	N/A
	N/A	N/A	N/A
	N/A	N/A	N/A
	N/A	N/A	N/A
	N/A	N/A	N/A
	N/A	N/A	N/A
	N/A	N/A	N/A

inches          inches          inches



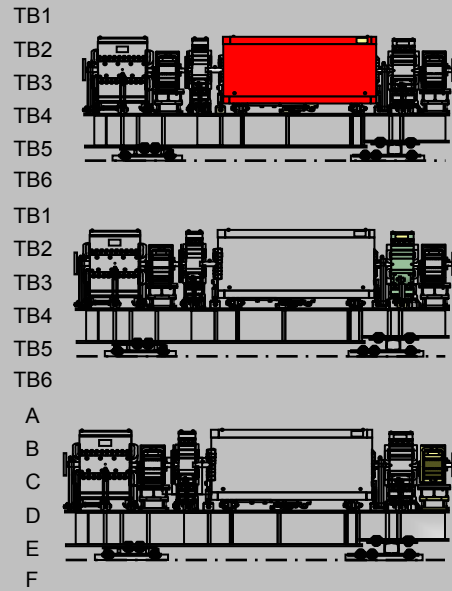
Latest File Date: February 4, 2003

**145D-66**

**Description:**  
 Values representing the difference between the design and actual fiducial measurements.

**Building 750 As-Built: (TABLE 2 of 2)**

750 Name	delta Z	delta X	delta Y ( delta H )
SA66BD1	0.005	-0.003	0.001
	-0.002	0.005	-0.001
	0.005	0.006	0.001
	0.000	0.006	0.000
	0.003	0.002	0.002
	0.002	0.008	0.002
SA66SD1	0.002	-0.003	0.004
	0.000	0.000	0.000
	-0.010	-0.003	0.003
	-0.009	-0.003	0.001
	-0.013	0.003	0.001
	-0.013	0.002	-0.002
SA66HV2		-0.052	
		-0.035	
		-0.042	
		-0.037	
			0.000
			0.005
	inches	inches	inches



Latest File Date: February 4, 2003

**145D-66**

**Description:**

Values representing the difference between the design and actual fiducial measurements.