

# Fiducial Data Summary for 50Q Rafts

50Q-37

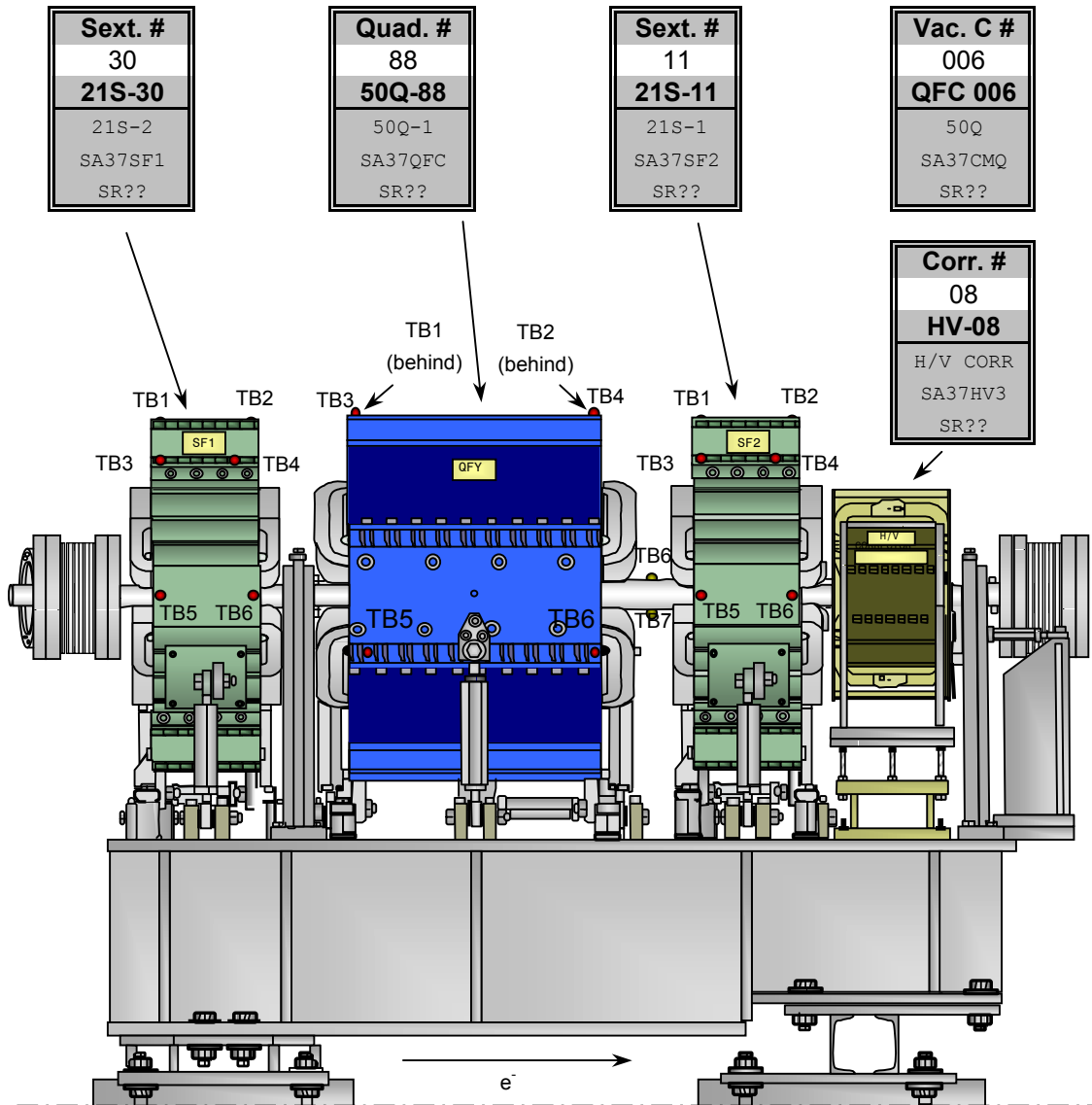
Raft Description:

**Date** November 14, 2001

<b>Raft #</b> 37 50Q-37	<b>Type</b> 1 50Q T-1	<b>Bld. 750 Name</b> SA37	<b>S3 Ring Name</b> SR??
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**Notes:**

The above date represents the latest fiducial date of all components listed below.  
SPEAR3 Ring number not yet known.



**Sextupole: Fiducial Values for Upstream (21S-2) Sextupole**

Fiducial	Z	X	Y
TB1	-3.716	4.214	15.509
TB2	3.671	4.227	15.508
TB3	-3.630	-10.494	12.542
TB4	2.288	-10.495	12.544
TB5	-3.774	-15.071	0.064
TB6	3.762	-15.061	0.021

inches          inches          inches

**SEXTUPOLE**  
**21S-30**

SA37SF1  
SR??

10/25/01

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

**Quadrupole: Fiducial Values for Quadrupole (50Q-1)**

Fiducial	Z	X	Y
TB1	-9.468	11.256	16.203
TB2	9.443	11.263	16.203
TB3	-9.453	-11.255	16.205
TB4	9.468	-11.232	16.203
TB5	-8.395	-15.202	-4.763
TB6	9.278	-15.202	-4.763

inches          inches          inches

**QUADRUPOLE**  
**50Q-88**

SA37QFC  
SR??

10/29/01

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

**Sextupole: Fiducial Values for Downstream (21S-1) Sextupole**

Fiducial	Z	X	Y
TB1	-3.731	4.218	15.507
TB2	3.745	4.197	15.510
TB3	-3.630	-10.509	12.537
TB4	2.267	-10.515	12.527
TB5	-3.747	-15.063	0.024
TB6	3.742	-15.063	0.017

inches      inches      inches

SA37SF2  
SR??

11/14/01

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

**H/V 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

SA37HV3  
SR??

No Date

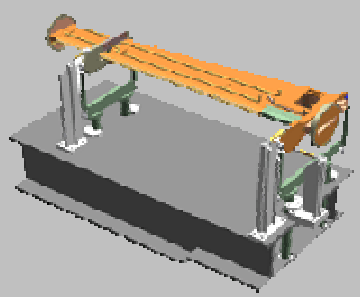
**Description:**  
Fiducials based on known nominal values.

**Vacuum Chamber: Fiducial Values for QFC (50Q) Vacuum Chamber**

Fiducial	Z	X	Y
TB1	-13.947	-3.364	4.409
TB2	-13.948	7.280	4.375
TB3	37.416	-5.488	4.402
TB4	37.511	13.229	2.964
TB5	33.423	7.545	2.065
TB6	13.390	2.604	2.346
TB7	13.513	2.627	-2.336

inches          inches          inches

**VACUUM CHAMBER**  
**QFC 006**



SA37CMQ  
SR??

8/1/01

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

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

750 Name	Z	X	Y	Yaw
SA37SF1	-0.535	0.000	0.000	0.0000
SA37QFC	0.000	0.000	0.000	0.0000
SA37CMQ	0.000	0.000	0.000	0.0000
SA37SF2	0.535	0.000	0.000	0.0000

meters          meters          meters          degrees

Date of Deck File: April 16, 2002

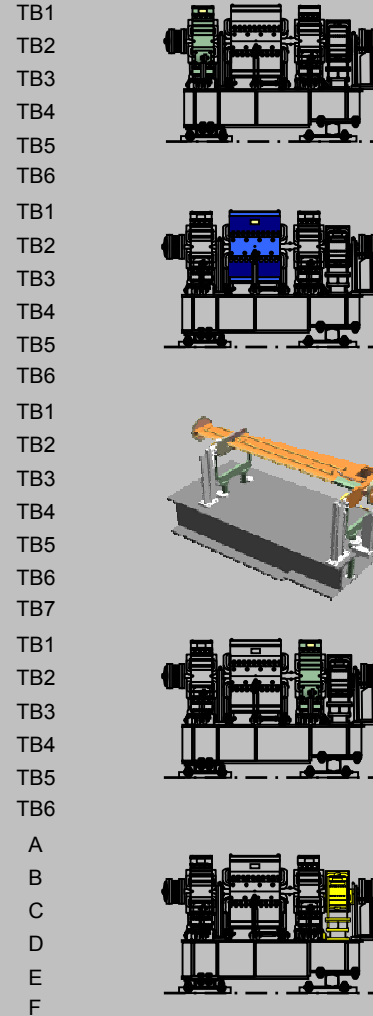
Location of Raft: EAST

**50Q-37**

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

**Building 750 As-Built:**

750 Name	delta Z	delta X	delta Y ( delta H )
SA37SF1	0.018	-0.004	0.001
	0.015	-0.004	-0.001
	0.013	-0.004	0.002
	0.014	-0.009	0.000
	0.012	-0.001	0.000
	0.007	0.002	-0.003
SA37QFC	-0.012	-0.007	0.000
	-0.015	-0.005	0.003
	-0.016	0.001	-0.001
	-0.021	-0.002	0.005
	-0.003	-0.007	0.001
	-0.007	0.001	0.004
SA37CMQ	0.005	-0.007	0.000
	0.005	-0.004	0.002
	-0.004	0.001	-0.003
	-0.007	-0.004	-0.003
	-0.006	-0.001	0.000
	N/A	N/A	N/A
	N/A	N/A	N/A
SA37SF2	-0.003	-0.008	-0.001
	-0.004	-0.004	0.000
	-0.005	-0.005	-0.003
	-0.006	0.010	0.000
	-0.006	0.000	-0.004
	-0.004	-0.005	0.000
SA37HV3		-0.010	
		0.003	
		-0.010	
		-0.002	
			-0.002
			0.005
	inches	inches	inches



Latest File Date: February 21, 2002

**50Q-37**

**Description:**

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