

# Fiducial Data Summary for 50Q Rafts

50Q-38

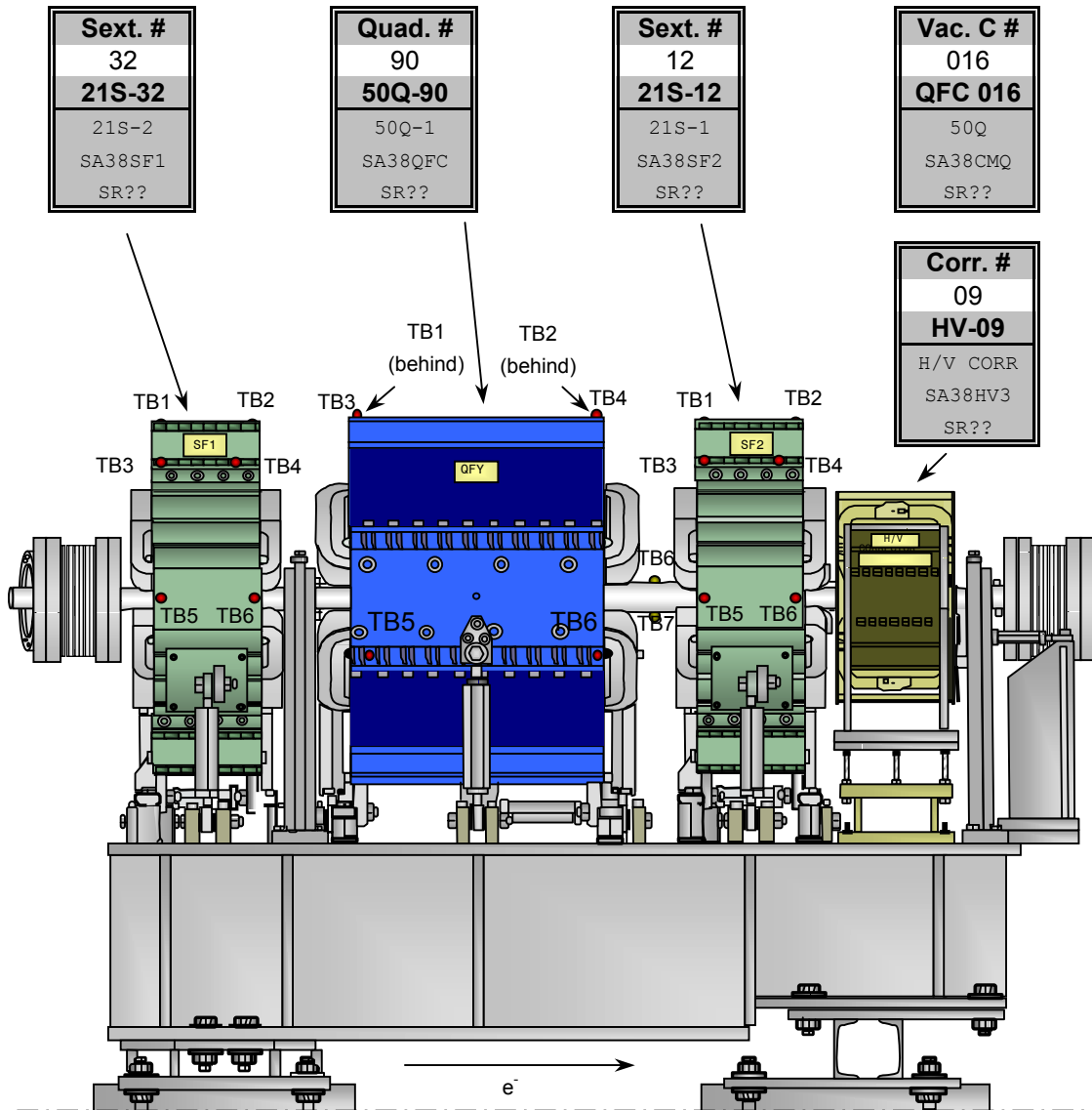
**Raft Description:**

**Date** January 21, 2002

<b>Raft #</b> 38 50Q-38	<b>Type</b> 1 50Q T-1	<b>Bld. 750 Name</b> SA38	<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.



<b>Sext. #</b>
32
<b>21S-32</b>
21S-2
SA38SF1
SR??

<b>Quad. #</b>
90
<b>50Q-90</b>
50Q-1
SA38QFC
SR??

<b>Sext. #</b>
12
<b>21S-12</b>
21S-1
SA38SF2
SR??

<b>Vac. C #</b>
016
<b>QFC 016</b>
50Q
SA38CMQ
SR??

<b>Corr. #</b>
09
<b>HV-09</b>
H/V CORR
SA38HV3
SR??

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

Fiducial	Z	X	Y
TB1	-3.655	4.240	15.509
TB2	3.646	4.218	15.509
TB3	-3.625	-10.464	12.559
TB4	2.288	-10.532	12.520
TB5	-3.711	-15.063	0.024
TB6	3.755	-15.064	0.024

inches          inches          inches

**SEXTUPOLE  
21S-32**

SA38SF1  
SR??

12/20/01

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

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

Fiducial	Z	X	Y
TB1	-9.464	11.241	16.211
TB2	9.476	11.235	16.213
TB3	-9.470	-11.260	16.198
TB4	9.473	-11.265	16.196
TB5	-8.367	-15.199	-4.717
TB6	9.214	-15.201	-4.712

inches          inches          inches

**QUADRUPOLE  
50Q-90**

SA38QFC  
SR??

1/3/02

**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	-3.744	4.220	15.512
TB2	3.743	4.163	15.509
TB3	-3.635	-10.495	12.543
TB4	2.280	-10.486	12.547
TB5	-3.744	-15.064	-0.028
TB6	3.716	-15.063	0.072

inches      inches      inches

**SEXTUPOLE  
21S-12**

SA38SF2  
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

**H/V CORRECTOR  
HV-09**

SA38HV3  
SR??

No Date

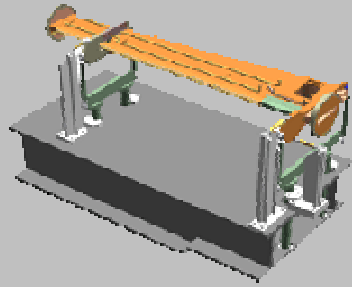
**Description:**  
Fiducials based on known nominal values.

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

Fiducial	Z	X	Y
TB1	-13.809	-3.462	4.403
TB2	-13.816	7.269	4.369
TB3	37.475	-5.458	4.411
TB4	37.581	13.287	2.948
TB5	33.445	7.553	2.068
TB6	N/A	N/A	N/A
TB7	N/A	N/A	N/A

inches      inches      inches

**VACUUM CHAMBER**  
**QFC 016**



SA38CMQ  
SR??

1/21/02

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

**Building 750 Deck Data**

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

750 Name	Z	X	Y	Yaw
SA38SF1	-0.535	-3.500	0.000	0.0000
SA38QFC	0.000	-3.500	0.000	0.0000
SA38CMQ	0.000	-3.500	0.000	0.0000
SA38SF2	0.535	-3.500	0.000	0.0000

meters      meters      meters      degrees

Date of Deck File: April 16, 2002

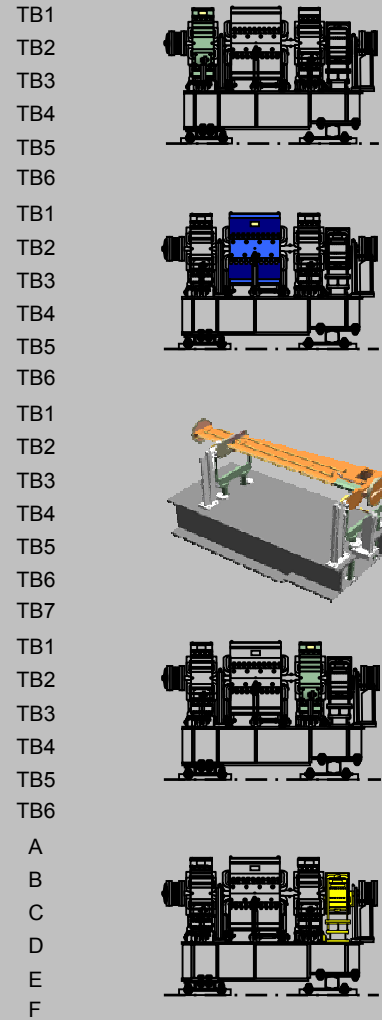
Location of Raft: WEST

50Q-38

**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 )
SA38SF1	-0.032	0.001	0.003
	-0.033	-0.002	0.004
	-0.019	0.003	-0.002
	N/A	N/A	N/A
	-0.016	0.004	-0.003
	-0.019	0.003	-0.002
SA38QFC	-0.021	-0.004	-0.003
	-0.023	0.003	0.000
	-0.012	0.001	-0.003
	-0.014	0.007	-0.003
	-0.007	-0.001	-0.004
	-0.014	0.004	-0.002
SA38CMQ	-0.004	0.000	0.001
	-0.004	-0.006	-0.002
	0.004	-0.006	0.003
	0.000	-0.004	0.000
	-0.001	-0.005	-0.002
	N/A	N/A	N/A
	N/A	N/A	N/A
SA38SF2	0.002	0.004	-0.001
	0.005	-0.001	-0.003
	-0.005	0.000	0.002
	-0.008	0.001	-0.002
	-0.007	0.000	-0.001
	-0.010	0.002	0.000
SA38HV3		-0.013	
		-0.011	
		-0.014	
		-0.014	
			0.009
			0.019
	inches	inches	inches



Latest File Date: March 5, 2002

**50Q-38**

**Description:**

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