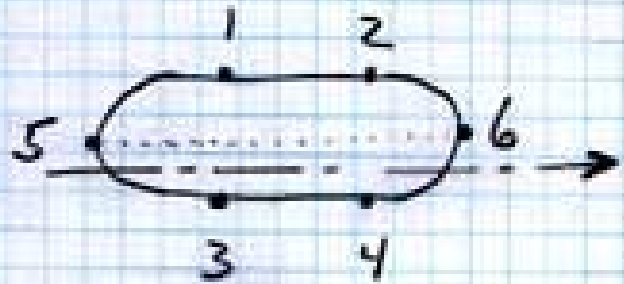
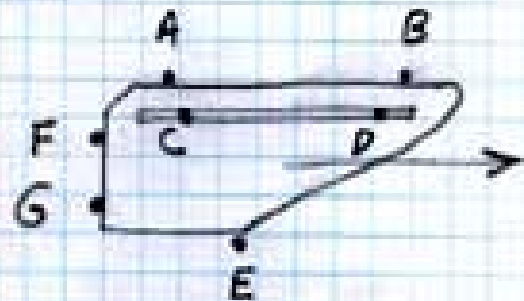


# BL 13 $\pi\phi$ Mirror Tank + Tilt Plate

	Z	X	Y
1	-8.497	7.640	-3.985
2	8.509	7.642	-4.004
3	-4.498	-6.371	-3.983
4	4.494	-6.379	-3.984
5	-16.002	.648	-3.984
6	15.987	.616	-3.976



	Z	X	Y
A	.048	4.486	-11.485
B	15.049	4.434	-11.539
C	2.114	2.719	-8.915
D	16.507	2.669	-8.959
E	1.894	-3.548	-11.465
F	-2.843	1.470	-11.470
G	-2.850	-1.030	-11.468



# BL13 M $\phi$ Mirror Tank

9-24-07  
MP JM

$\frac{1}{8}$ " Dowel pins for  $\phi$

For Value	.063
Now Value	.063
1st F	20.000 +1
N	19.842 +1
2nd F	18.000 +1
N	16.209 +1
$\frac{1}{2}$ R F	20.137 -1
N	20.137 -1
LOS	20.200



Mirror Tank  $\phi$  at  $Y = +.625$   
from undulator  $\phi$

1	2	3	4	5	6	
-20.200	-20.200	-20.200	-20.200	-20.200	-20.200	
7.875	7.877	12.204	12.196	19.223	19.191	Tank $\phi$
19.340	19.340					
<b>7.015</b>	<b>7.017</b>	<b>-6.996</b>	<b>-7.004</b>	<b>+0.023</b>	<b>-0.009</b>	
.625	.625	.625	.625	.625	.625	
<b>7.640</b>	<b>7.642</b>	<b>-6.371</b>	<b>-6.379</b>	<b>.648</b>	<b>.616</b>	B/L

# BL13 MØ Mirror Tank

9-24-07  
MA JM

51.717 to bottom of stand  
41.000" to B/L from print

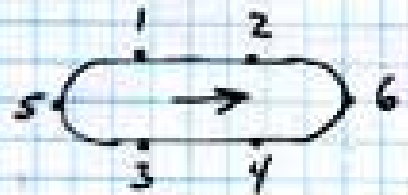
10.717 = HI

Flange set to 3.22 below B/L

$\frac{3.22}{13.937}$

feet

	$\frac{2}{13.937}$	$\frac{3}{13.937}$
13.937	13.937	13.937
11.105	14.120	14.035
13.937	13.937	13.937



1	2	3	4	5	6
10.717	10.717	10.717	10.717	10.717	10.717
13.702	13.721	13.700	13.701	13.701	13.693
$\frac{1.0}{-3.985}$	$\frac{1.0}{-4.004}$	$\frac{1.0}{-3.983}$	$\frac{1.0}{-3.984}$	$\frac{1.0}{-3.984}$	$\frac{1.0}{-3.976}$

14.25"  $\phi$  Dowel pins  $\pm$   $\phi$  Tank

1	2	3	4	5	6
-20.878	28.165	-20.878	28.165	-20.878	28.165
11.381	18.656	7.823	15.114	3.876	11.178
-8.497	8.509	-4.498	4.494	-16.002	15.987

1/3 Dowel

14.25  
.063  
12.952

28.165 for 2, 4, 6

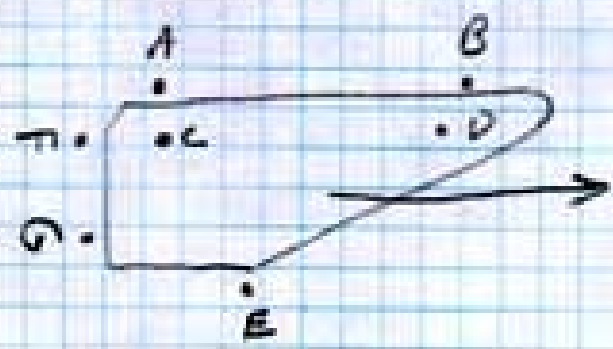
1/3 Dowel

14.25  
.063  
5.565

-20.878 to dowel  $\phi$   
1/3 dowel  
read  
ft 1, 3, 5

# BL13 MØ Mirror Plate

9-25-07  
MØ JM



X

$$\begin{array}{r} \text{LOS} = 19.575 \\ \quad \quad \quad \underline{.625} \\ \quad \quad \quad 20.200 \end{array} \text{ to tank } \text{E}$$

$$\begin{array}{r} \text{E} \\ -19.575 \\ \quad \quad \quad 15.027 \\ \hline -3.548 \end{array}$$

$$\begin{array}{r} \text{F} \\ -19.575 \\ \quad \quad \quad 20.045 \\ \hline +1.470 \end{array}$$

$$\begin{array}{r} \text{G} \\ -19.575 \\ \quad \quad \quad 17.545 \\ \hline -1.030 \end{array}$$

## New Buck In

- For #2 7.642
- Adv #1 7.640
- 1st F 4.000 +1
- N 4.391 +1
- 2nd F 6.300 +1
- N 6.304 +1
- 3rd F 7.312 -1
- N 7.314 -1
- LOS 14.954

$$\begin{array}{r} \text{A} \\ -14.954 \\ \quad \quad \quad 9.468 \\ \hline 4.486 \end{array}$$

$$\begin{array}{r} \text{B} \\ -14.954 \\ \quad \quad \quad 9.520 \\ \hline 4.434 \end{array}$$

$$\begin{array}{r} \text{C} \\ -14.954 \\ \quad \quad \quad 11.235 \\ \hline 2.719 \end{array}$$

$$\begin{array}{r} \text{D} \\ -14.954 \\ \quad \quad \quad 11.285 \\ \hline 2.669 \end{array}$$

$$\begin{array}{r} \text{T/B } 5 \checkmark \\ -14.954 \\ \quad \quad \quad .648 \\ \hline 13.306 \checkmark \\ \quad \quad \quad \underline{.007} \\ \quad \quad \quad 13.309 \checkmark \end{array}$$

BL13 Mg Mirror Plate

9-25-07  
MP JM

$$\begin{array}{r} T/O 5 \quad -3.984 \\ \quad \quad 3.224 \\ \hline \quad \quad -8.208 \end{array}$$

$$\begin{array}{r} T/O 3 \quad -3.983 \\ \quad \quad 3.225 \\ \hline \quad \quad -8.208 \end{array}$$

$$\begin{array}{r} A \\ -8.208 \\ 3.027 \\ .250 \end{array}$$

$$\begin{array}{r} B \\ -8.208 \\ 2.331 \end{array}$$

$$\begin{array}{r} C \\ -8.208 \\ .457 \\ .250 \end{array}$$

$$\begin{array}{r} D \\ -8.208 \\ .501 \\ .250 \end{array}$$

$$\begin{array}{r} E \\ -8.208 \\ 3.007 \\ .250 \end{array}$$

$$\begin{array}{r} F \\ -8.208 \\ 3.012 \\ .250 \end{array}$$

$$\begin{array}{r} G \\ -8.208 \\ 3.010 \\ .250 \end{array}$$

-11.485

-11.539

-8.915

-8.959

-11.465

-11.470

-11.468

# BL13 MP Mirror Plate

9-25-07  
MP JM



14.25 & 1/8" down to tank

14.25	
.063	1/8" down
3.105	rod
1	ft
-18.418	LOS

A	B	C	D	E	F	G
-18.418	-18.418	-18.418	-18.418	-18.418	-18.418	-18.418
17.466	32.467	19.532	33.925	19.312	14.575	14.568
1	1	1	1	1	1	1
+1.048	15.049	2.114	16.507	1.894	-2.843	-2.850

# BC13 Mirror Mφ

9-27-07  
MA JM

Put mirror plate parallel to Tank

o/s	y/s	u/s	o/s
13.795	13.610	13.518	13.497
	13.747	13.502	13.499
13.682	13.725	13.546	13.546
13.640	13.657		
13.665	13.658		
13.654	13.654		
13.599	13.555		

Mirror top edge 20mm thick = .787

o/s

10.717  
.394 1/2 mirror

o/s	y/s
9.323	9.440
9.340	9.368
9.380	9.397
9.397	9.326
9.326	9.312
9.312	9.322
9.322	9.325

9.323
9.430
9.397
9.332
9.326
9.403
9.322
9.312
9.326
9.327

X

o/s

20.200

19.575

19.711

18.711

18.771 -60

18.879 -118

18.888 -177

18.825 -114

18.757 -76

18.726

18.710

18.707

18.706

o/s

19.575

19.439

18.439

18.775 -336

18.647 -208

18.665 -226

18.635 -196

18.557 -118

18.480 -71

18.436

18.438

18.440

o/s

18.663 78

18.705

18.710

18.712

chin guard

18.703

o/s

18.396 13

18.446

18.440

18.437

18.421

18.420

18.428

1.1°