Meas WL	23.08	Bilge Factor	1.02				Horizontal Section Coordinates										
Section #	Dist Aft of FP	Half Girth	Sect Draft	y0	y1/2	y1	y2	y3	y4	Half BWL [b]	b*x_FP	Sect Area	Sect Mom't	b*x_FP^2	b^3	freeboard	beam @ deck
-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-3.3333	0
0	1.6667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-3.2552	0.6250
1	3.98	0.990	0.578	0	0.167	0.354	0.500	0.583	0.667	0.724	2.878	0.572	2.274	11.44	0.379	-3.1094	1.5000
2	6.28	1.281	0.974	0	0.292	0.563	0.833	1.083	1.333	1.573	9.883	1.796	11.287	62.10	3.892	-2.9740	2.3542
3	8.59	2.458	1.021	0	0.500	0.833	1.229	1.563	1.875	2.208	18.973	2.722	23.388	163.01	10.769	-2.9167	3.0833
4	10.90	3.089	1.146	0	0.750	1.167	1.604	2.063	2.479	2.854	31.110	4.058	44.234	339.10	23.251	-2.7917	3.8333
5	13.21	3.542	1.167	0	0.958	1.458	2.042	2.542	2.875	3.281	43.340	4.999	66.026	572.45	35.328	-2.7500	4.2500
6	15.52	3.677	1.104	0	1.125	1.750	2.375	2.813	3.125	3.417	53.015	5.288	82.048	822.62	39.885	-2.7500	4.3333
7	17.83	3.594	0.927	0	1.042	1.646	2.188	2.667	3.000	3.323	59.231	4.198	74.823	1055.79	36.691	-2.7604	4.1875
8	20.13	3.188	0.615	0	0.833	1.375	1.917	2.333	2.625	3.000	60.400	2.422	48.773	1216.05	27.000	-2.8021	3.9375
9	22.44	2.547	0.396	0	0.708	1.188	1.583	1.979	2.271	2.542	57.039	1.325	29.746	1280.06	16.419	-2.7292	3.6458
10	24.750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2.7500	3.3333
11	25.833	0	-2.625	0	1.917	2.417	2.813	3.000	3.104	0	0	0	0	0	0	-2.7500	3.1875

Wet Surf 117.709

Waterplane Area 107.722

Ctr Float'n 14.653

Vol Displ 63.398

Mass Displ 4057

Long Ctr Buoy 14.051

Long Mom Inertia 3356.9

Long Metacentric Radius 52.9

Transv Mom Inertia 300.80

Transv Metacentric Radius 4.745

	Ft	In	Decimal	Ft	In	Decimal	Ft	In	Decimal	Ft	In	Decimal	Ft	In	Decimal	Ft	In	Decimal
FP offset	0	20	1.6667															
Meas WL	23	1	23.0833															
Meas Sect #	Measurement Stations			Full Girth Measurements			Full Beam Waterline Measurements			CL Sect Height AGL Measurements			Port Sect Height AGL Measurements			Stbd Sect Height AGL Measurements		
0	0	0	0.0000							5	1	5.0833						
1	2	3 3/4	2.3083	1	11 3/4	1.9792	1	5 3/8	1.4479	4	6	4.5000	5	1	5.0833	5	7/8	5.0729
2	4	7 3/8	4.6167	2	6 3/4	2.5625	3	1 3/4	3.1458	4	2 1/8	4.1771	5	2 1/2	5.2083	5	1 1/8	5.0938
3	6	11 1/8	6.9250	4	11	4.9167	4	5	4.4167	4	3/4	4.0625	5	1 1/4	5.1042	5	3/4	5.0625
4	9	2 3/4	9.2333	6	2 1/8	6.1771	5	8 1/2	5.7083	3	11 3/4	3.9792	5	1 1/2	5.1250	5	1 1/2	5.1250
5	11	6 1/2	11.5417	7	1	7.0833	6	6 3/4	6.5625	4	0	4.0000	5	1 3/4	5.1458	5	2 1/4	5.1875
6	13	10 1/4	13.8500	7	4 1/4	7.3542	6	10	6.8333	4	3/4	4.0625	5	2	5.1667	5	2	5.1667
7	16	1 7/8	16.1583	7	2 1/4	7.1875	6	7 3/4	6.6458	4	2 3/4	4.2292	5	1 1/2	5.1250	5	2 1/4	5.1875
8	18	5 5/8	18.4667	6	4 1/2	6.3750	6	0	6.0000	4	6	4.5000	5	1 1/4	5.1042	5	1 1/2	5.1250
9	20	9 1/4	20.7750	5	1 1/8	5.0938	5	1	5.0833	4	9 1/2	4.7917	5	2	5.1667	5	2 1/2	5.2083
10	23	1	23.0833							5	2	5.1667						
Transom	24	2	24.1667							5	3 1/2	5.2917						

Tools: Tape meas, plumb bob, chalk, chalk line (opt), something to mark ground (flour, spray paint, etc.)

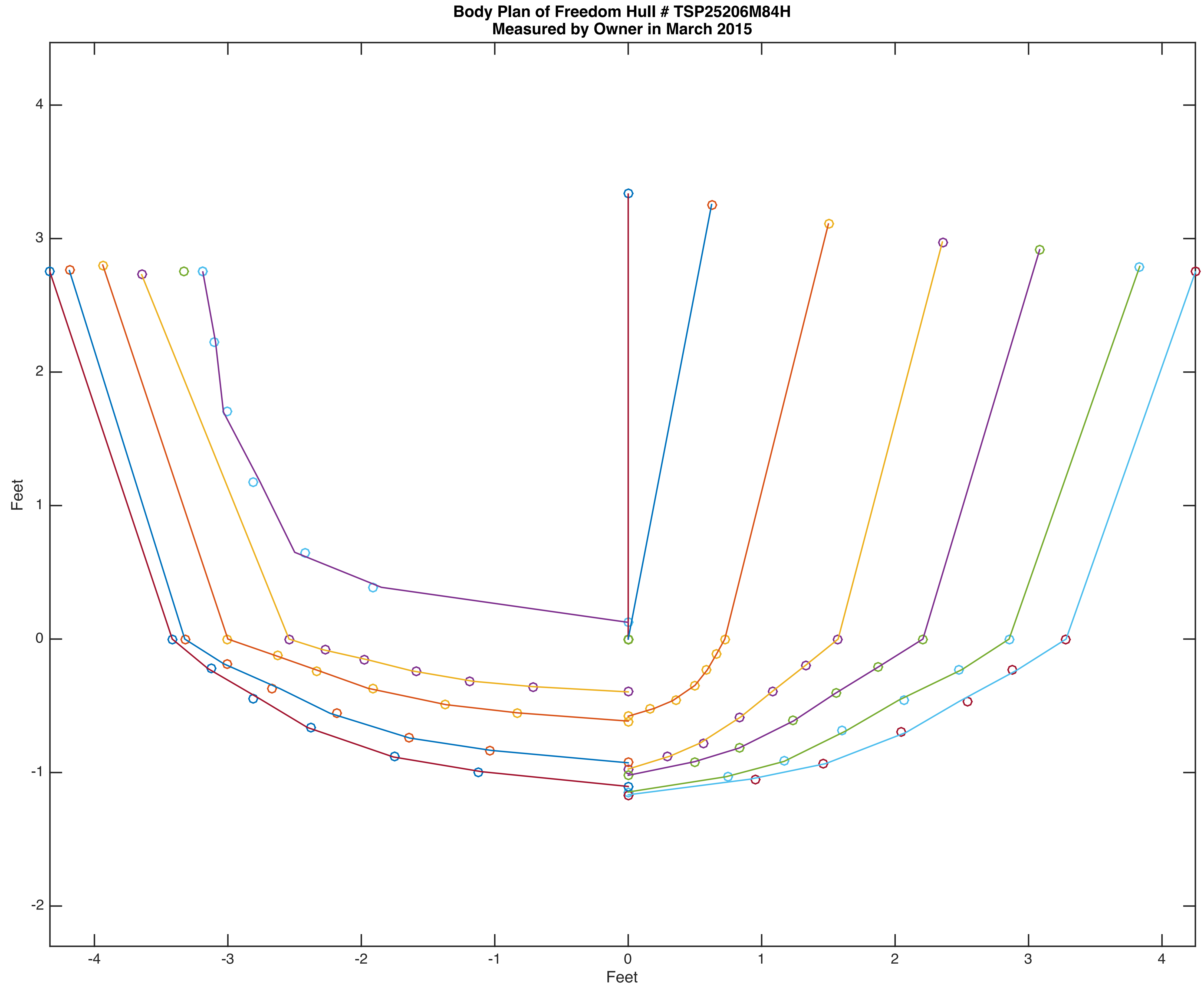
Procedure

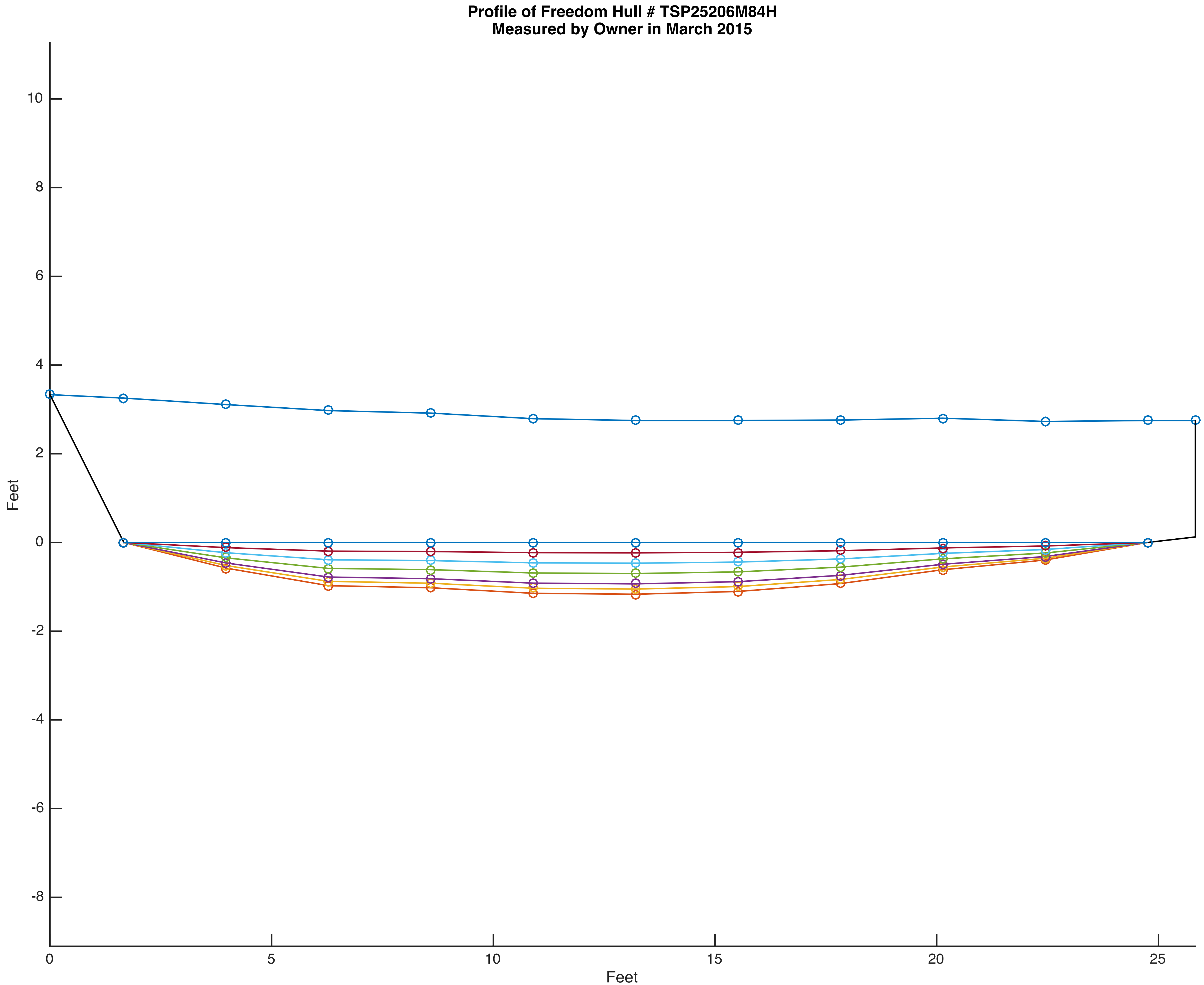
1 Drop plumb bobs from WL @ Stations 0 & 10, and also from FP (tip of bow) & transom; mark ground.
2 Meas distance between WL marks from Step 1 & enter @ B31:C31; also enter offset of FP from bow WL pt @ B30:C30 and transom distance from bow WL @ B44:C44 (if chalk line avail, mark CL on ground)
3 Mark ground below CL @ stations computed in B34:C43
4 Use plumb bob to mark stations along CL above marks from Step 3 (if chalk line avail, mark CL on hull)
5 Measure full girth at each station from port WL to stbd WL & enter @ E34:F42; mark WL beam points at each end of meas tape
6 Drop plumb bobs from WL beam points & mark on ground.
7 Measure full beam at each station using marks from Step 6 & enter @ H34:I42.
8 Measure height from ground at each station for CL, and both port & stbd WL beam points & enter @ K33:L44, N34:O42, & Q34:R42 respectively.

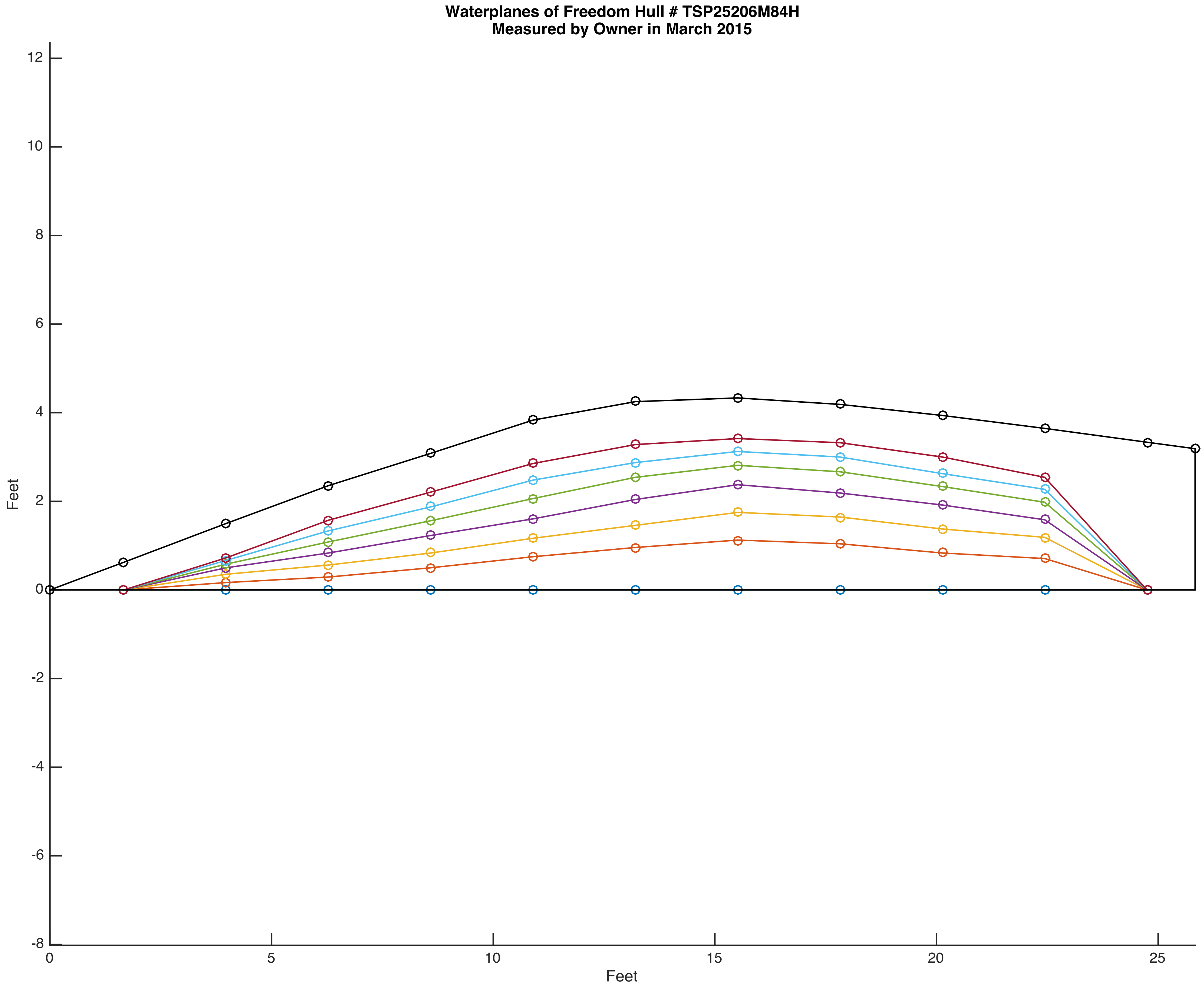
9 For each section profile station, measure out indicated height AGL along plumb line and slide top end of plumb line along section until full length is paid out; mark ground at bob's location.
10 Measure section profile station widths along ground from CL to marks from Step 9; use either port or stbd measurement; do not mix

Meas Sect #	*Sect Station 1/2 Height AGL Coordinate*			*Sect Station 1/2 Width Meas*			*Sect Station 1 Height AGL Coordinate*			*Sect Station 1 Width Meas*			*Sect Station 2 Height AGL Coordinate*			*Sect Station 2 Width Meas*		
	Ft	*In*	*Decimal*	*Ft*	*In*	*Decimal*	*Ft*	*In*	*Decimal*	*Ft*	*In*	*Decimal*	*Ft*	*In*	*Decimal*	*Ft*	*In*	*Decimal*
0																		
1	4	6 3/4	4.5578	0	2	0.1667	4	7 3/8	4.6156	0	4 1/4	0.3542	4	8 3/4	4.7313	0	6	0.5000
2	4	3 1/4	4.2745	0	3 1/2	0.2917	4	4 1/2	4.3719	0	6 3/4	0.5625	4	6 3/4	4.5667	0	10	0.8333
3	4	2	4.1646	0	6	0.5000	4	3 1/4	4.2667	0	10	0.8333	4	5 5/8	4.4708	1	2 3/4	1.2292
4	4	1 1/8	4.0938	0	9	0.7500	4	2 1/2	4.2083	1	2	1.1667	4	5 1/4	4.4375	1	7 1/4	1.6042
5	4	1 3/8	4.1167	0	11 1/2	0.9583	4	2 3/4	4.2333	1	5 1/2	1.4583	4	5 5/8	4.4667	2	1/2	2.0417
6	4	2 1/8	4.1729	1	1 1/2	1.1250	4	3 3/8	4.2833	1	9	1.7500	4	6	4.5042	2	4 1/2	2.3750
7	4	3 7/8	4.3219	1	1/2	1.0417	4	5	4.4146	1	7 3/4	1.6458	4	7 1/4	4.6000	2	2 1/4	2.1875
8	4	6 3/4	4.5615	0	10	0.8333	4	7 1/2	4.6229	1	4 1/2	1.3750	4	9	4.7458	1	11	1.9167
9	4	10	4.8313	0	8 1/2	0.7083	4	10 1/2	4.8708	1	2 1/4	1.1875	4	11 3/8	4.9500	1	7	1.5833
10																		
Transom	5	6 5/8	5.5542		23	1.9167	5	9 3/4	5.8167		29	2.4167	6	4 1/8	6.3417		33 3/4	2.8125

Meas Sect #	*Sect Station 3 Height AGL Coordinate*			*Sect Station 3 Width Meas*			*Sect Station 4 Height AGL Coordinate*			*Sect Station 4 Width Meas*			*Sect Station Top Height AGL Meas*			*Sect Station Top Width Meas*		
	Ft	*In*	*Decimal*	*Ft*	*In*	*Decimal*	*Ft*	*In*	*Decimal*	*Ft*	*In*	*Decimal*	*Ft*	*In*	*Decimal*	*Ft*	*In*	*Decimal*
-1														101	8.4167			
0														100	8.3333		7 1/2	0.6250
1	4	10 1/8	4.8469	0	7	0.5833	4	11 1/2	4.9625	0	8	0.6667		98 1/4	8.1875		18	1.5000
2	4	9 1/8	4.7615	1	1	1.0833	4	11 1/2	4.9563	1	4	1.3333		97 1/2	8.1250		28 1/4	2.3542
3	4	8 1/8	4.6750	1	6 3/4	1.5625	4	10 1/2	4.8792	1	10 1/2	1.8750		96	8.0000		37	3.0833
4	4	8	4.6667	2	3/4	2.0625	4	10 3/4	4.8958	2	5 3/4	2.4792		95	7.9167		46	3.8333
5	4	8 3/8	4.7000	2	6 1/2	2.5417	4	11 1/4	4.9333	2	10 1/2	2.8750		95	7.9167		51	4.2500
6	4	8 3/4	4.7250	2	9 3/4	2.8125	4	11 3/8	4.9458	3	1 1/2	3.1250		95	7.9167		52	4.3333
7	4	9 3/8	4.7854	2	8	2.6667	4	11 5/8	4.9708	3	0	3.0000		95	7.9167		50 1/4	4.1875
8	4	10 3/8	4.8688	2	4	2.3333	4	11 7/8	4.9917	2	7 1/2	2.6250		95	7.9167		47 1/4	3.9375
9	5	3/8	5.0292	1	11 3/4	1.9792	5	1 1/4	5.1083	2	3 1/4	2.2708		95	7.9167		43 3/4	3.6458
10														95	7.9167		40	3.3333
Transom	6	10 3/8	6.8667		36	3.0000	7	4 3/4	7.3917		37 1/4	3.1042		95	7.9167		38 1/4	3.1875


Body Plan of Freedom Hull # TSP25206M84H
Measured by Owner in March 2015
Feet
Feet
4
3
2
1
0
-1
-2
-4
-3
-2
-1
0
1
2
3
4


Profile of Freedom Hull # TSP25206M84H
Measured by Owner in March 2015
Feet
Feet
10
8
6
4
2
0
-2
-4
-6
-8
0
5
10
15
20
25



Waterplanes of Freedom Hull # TSP25206M84H
Measured by Owner in March 2015
Feet
Feet
12
10
8
6
4
2
0
-2
-4
-6
-8
0
5
10
15
20
25