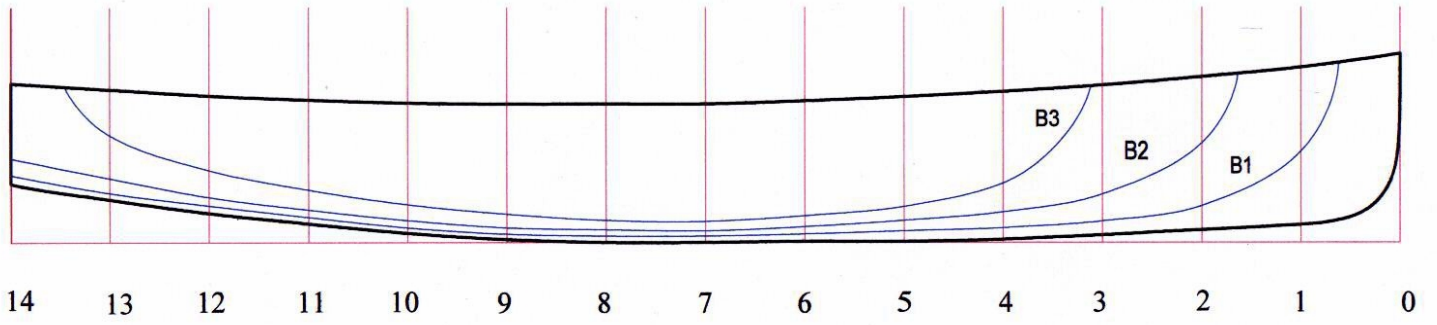
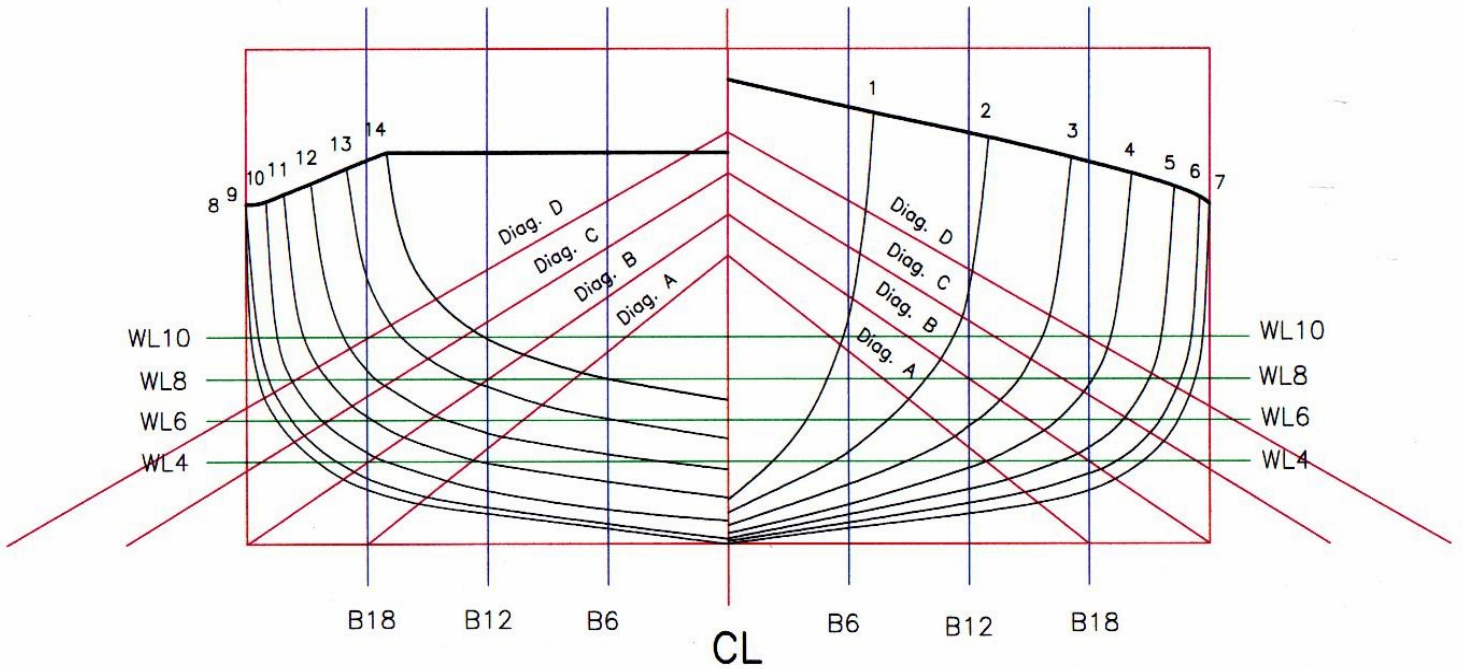


# Blackfly

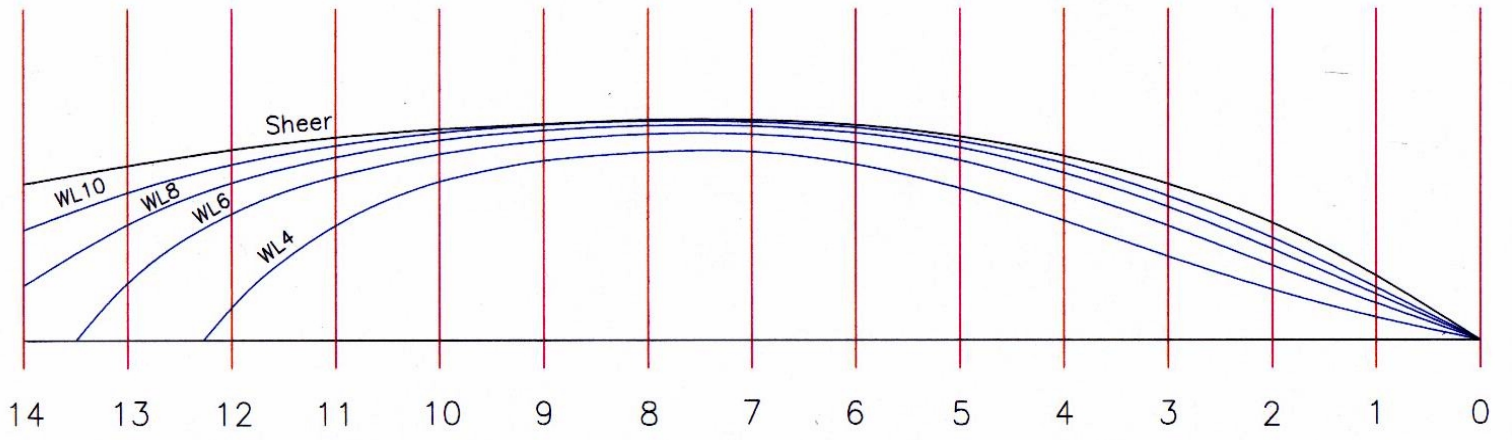
Stations are at 1' intervals



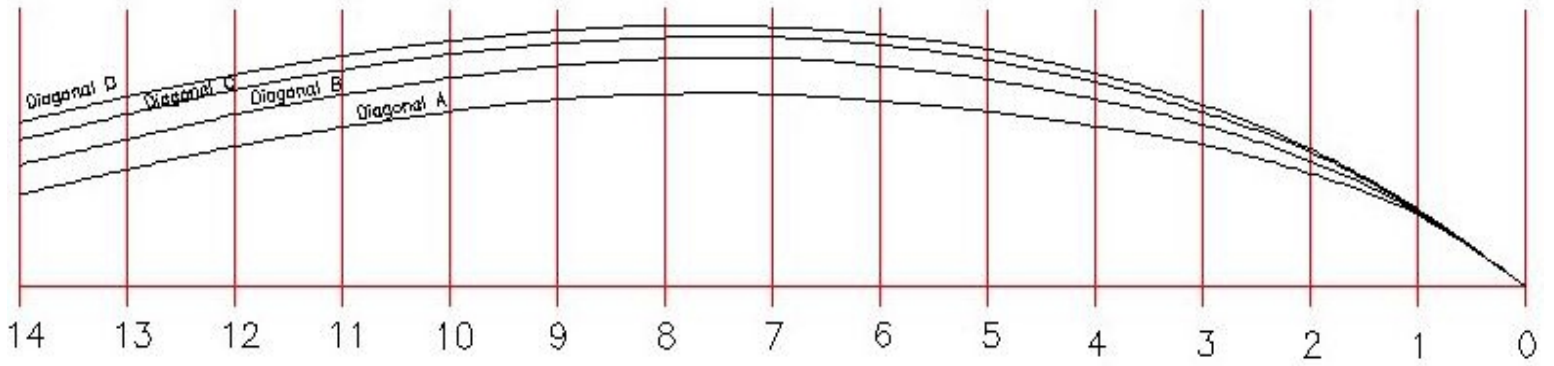
Profil



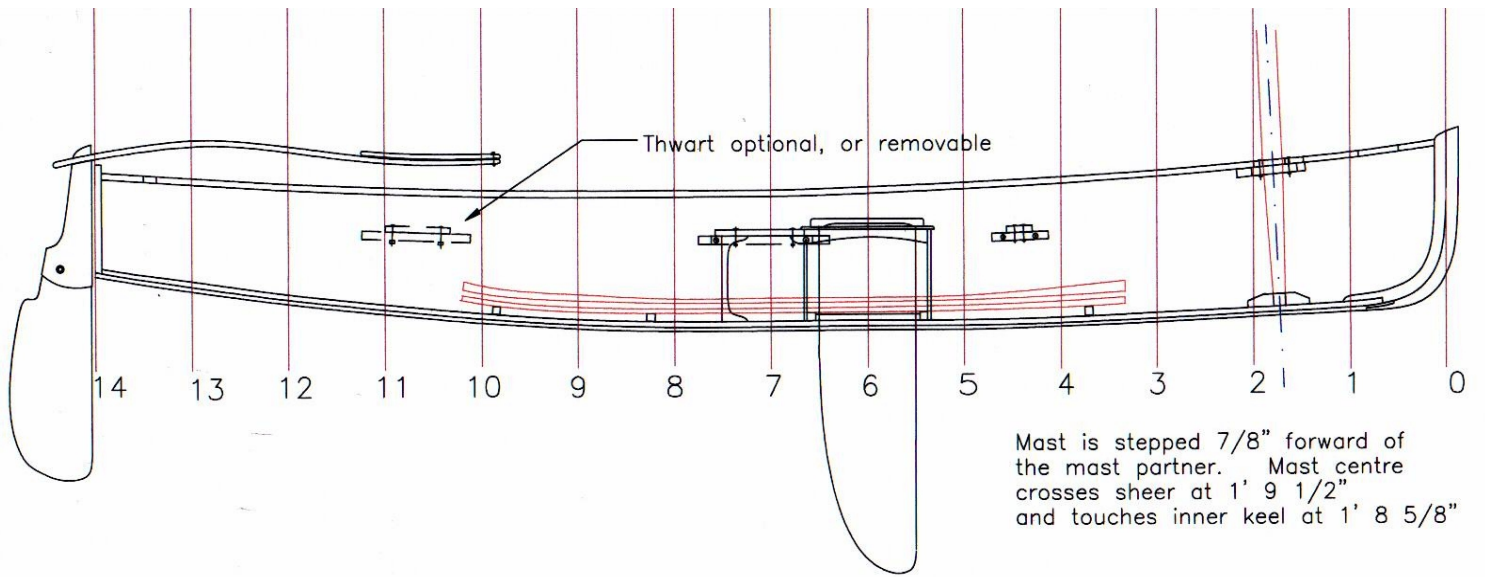
Body Plan (Sectional)



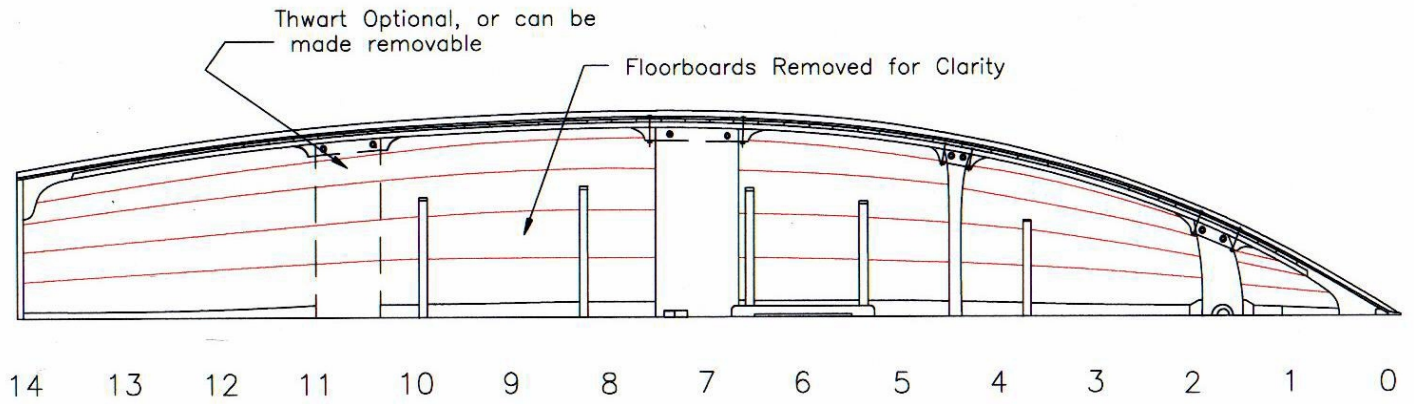
### Halfbreadths



### Diagonals



Construction Plan Profile



Construction Plan, aerial

## Blackfly – Materials list, and Tables of Offsets

Recommended Construction method: Lapstrake plywood, as described in Iain Oughtred's book, *Clinker Plywood Boatbuilding*, Tom Hill's *Ultralight Boatbuilding* and John Brooks's *How to Build Glued-Lapstrake Wooden Boats* (all texts available through the *WoodenBoat* store at [www.woodenboat.com](http://www.woodenboat.com)).

Moulds do not need to be bevelled. Forward moulds should be located aft of the station marks on the strongback; aft moulds should be located forward of station marks.

### Materials:

Keel, Inner-----	5/8" cherry, ash, or similar
Keel, Outer-----	1/2" cherry, ash...
Stem, Inner & Outer-----	1 1/2" laminated cherry, ash, doug fir, spruce or other
Transom-----	3/4" mahogany, butternut, spanish cedar, or similar (transom may also be built up from 3/16" ply and solid frame)
Planking-----	3/16" marine-grade okoume plywood, or similar. Bottom planks (garboard, broadstrake and third plank) may be gotten out of 1/4" ply for added strength. If weight is not a concern, 1/4" may be used throughout.
Rubrails-----	3/4" Cherry, ash...
Gunwale-----	5/8" X 3/4" Cherry, or similar
Sheer clamp (inwale)-----	1/2" X 5/8" spruce
Sheer clamp spacer blocks-----	3/8" spruce
Floor frames -----	1" White cedar
Breasthook-----	7/8" cherry, ash...
Quarter knees-----	5/8" Cherry, ash...
Mast thwart-----	7/8" Cherry, ash...
Middle thwart and support-----	3/4" Butternut, mahogany, or other lightweight wood. Thwart may be narrowed to save weight, but not reduced in thickness.
Canoe-style thwart, forward-----	7/8" X 2" cherry, ash...
Removable thwart (aft)-----	3/4" Butternut, mahogany or similar
Risers-----	3/4" cherry, ash...
Daggerboard trunk-----	3/16" ply panels, with cedar spacers and cherry (or other) braces & cap.
Rudder-----	5/8" mahogany, or similar
Daggerboard-----	3/4" mahogany, or similar
Tiller-----	5/8" laminated ash, cherry.....

## Offsets

Offsets in feet- inches-eighths to the inside of the planking

Heights above baseline

Buttocks spaced at 6" intervals from CL

STA	Sheer	Butt18	Butt12	Butt6	Keel
0	1-10-2	-	-	-	0-11-0
1	1-8-7 +	-	-	0-10-7 +	0-2-1 +
2	1-7-6	-	0-11-7	0-4-3 +	0-1-4 +
3	1-6-6	-	0-5-6	0-2-6	0-0-7
4	1-6-0	0-7-5 +	0-3-5	0-1-6	0-0-4
5	1-5-3	0-4-5 +	0-2-5	0-1-3	0-0-2
6	1-4-7 +	0-3-3	0-1-7 +	0-1-0	0-0-1
7	1-4-5	0-2-4 +	0-1-3 +	0-0-6	0-0-0
8	1-4-4	0-2-5	0-1-4	0-0-6	0-0-0
9	1-4-4 +	0-3-3	0-1-6 +	0-1-0+	0-0-2 +
10	1-4-6	0-4-4	0-2-5	0-1-6+	0-1-1
11	1-5-0	0-6-2 +	0-3-7	0-3-0 +	0-2-2 +
12	1-5-3 +	0-8-5	0-5-3	0-4-3	0-3-5
13	1-6-1	1-0-6	0-7-5	0-5-7 +	0-5-1 +
14	1-7-0	-	0-10-0	0-8-0	0-7-0

Halfbreadths from CL

Waterlines spaced at 2 inch intervals, starting 4" above baseline at WL4

STA	Sheer	WL10	WL8	WL6	WL4
0	0-0-0	-	-	-	-
1	0-7-2	0-5-6	0-4-7 +	0-3-7	0-2-2 +
2	1-1-0	0-11-0 +	0-10-0	0-7-7	0-5-2 +
3	1-5-1 +	1-3-6 +	1-2-5	1-0-2	0-9-0
4	1-8-1 +	1-7-3	1-6-2	1-4-4	1-0-6 +
5	1-10-2 +	1-9-6	1-8-6	1-7-5 +	1-4-5 +
6	1-11-4	1-11-1 +	1-10-3	1-9-5	1-7-4 +
7	2-0-0	1-11-7	1-11-2	1-10-4	1-8-5 +
8	2-0-0	1-11-7	1-11-3	1-10-4	1-8-4
9	1-11-4	1-11-4 +	1-10-7	1-9-6	1-7-1 +
10	1-11-0 +	1-10-5 +	1-9-6 +	1-8-3	1-4-5
11	1-10-1	1-9-2 +	1-7-6 +	1-5-5	0-11-7
12	1-8-6	1-7-2	1-4-5	1-1-1	0-3-2
13	1-7-0	1-4-2	1-0-0	0-5-4	-
14	1-5-0	1-1-5	1-6-7 +	-	-

Diagonals

Diag. A – 1' 2" up on CL, 1' 6" out on baseline

Diag. B – 1' 4" up on CL, 2' out on baseline

Diag. C – 1' 6" up on CL, 2' 6" out on baseline

Diag. D – 1' 8" up on CL, 3' out on baseline

STA	Diag. A	Diag. B	Diag. C	Diag.D
0	-	-	-	-
1	0-7-1	0-7-4	0-7-5	0-7-7
2	0-11-3	1-0-6	1-1-5	1-1-7
3	1-2-3	1-4-3	1-5-5	1-6-3
4	1-4-2	1-7-0	1-8-6	1-9-5
5	1-5-6	1-9-0	1-11-1	2-0-1
6	1-6-6	1-10-3	2-0-4	2-1-5
7	1-7-5	1-11-2	2-1-3	2-2-2
8	1-7-4	1-11-1	2-1-2	2-2-4
9	1-7-0	1-10-3	2-0-5	2-1-7
10	1-5-6	1-9-1	1-11-4	2-0-7
11	1-4-1	1-7-3	1-9-7	1-11-3
12	1-2-2	1-5-4	1-8-0	1-9-4
13	0-11-6	1-2-7	1-5-3	1-7-2
14	0-9-2	1-0-2	1-2-6	1-4-5