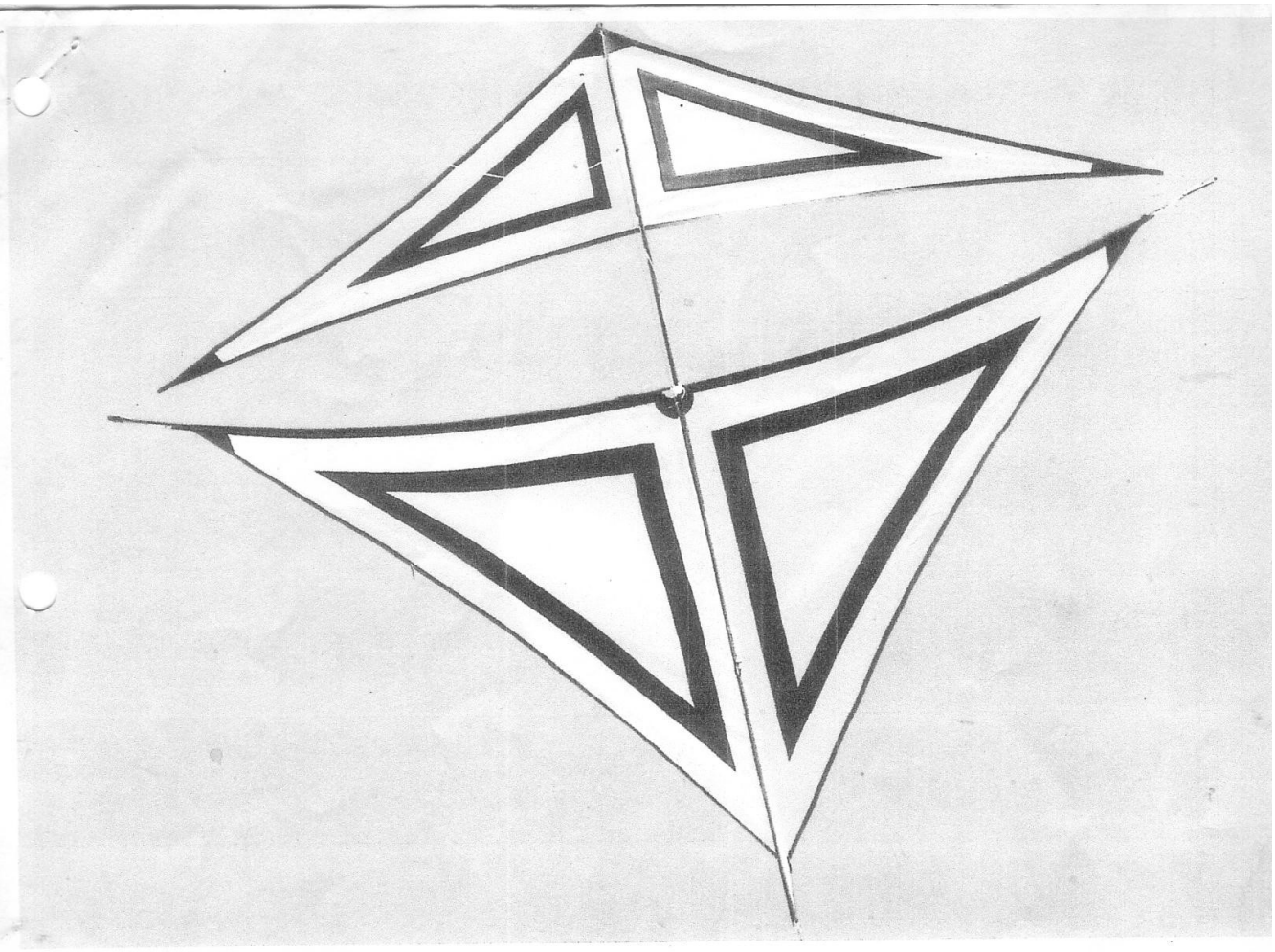

Presented by:
CLIFFORD J. QUINN

The Marconi, quite popular in Europe and not very often seen in the U.S., is a wonderful flyer with a dynamic shape. A kite that will look good with solid color wings, multi colors or graphics. Just apply your creativity.

The Marconi is a low to moderate wind kite easy to fly with or without a tail although a tail will enhance the appearance. The plan I have selected and modified slightly is one of several available on the Internet. This particular plan is one developed by Jan Van Leeuen, a very talented kite maker in Holland. Visit his web site www.Kitepassion.nl and admire his work. We have his permission to use the plan and he is proud we will.

Thanks for joining this workshop. I know you will be pleased. And feel free to ask for assistance at any time.

CLIFF

Marconi Materials List

- 3 yds. - ¾ oz sail fabric
- ½ yd. - ¾ oz edge/sleeve fabric
- 5 - wrapped carbon spars (P-200 or equivalent)
- 3 - internal ferrules (.2400" OD)
- 1 - 12" x 3/32" FG spar (RSF 09)
- 2 - (MNCFSD 31) end caps (.312" ID)
- 2 - 3/32" vinyl end caps (VEC 09) (Optional)
- 2 - vinyl end caps (VEC .281) (Optional)
- 1 yd. - ¼" wide grosgrain ribbon
- 6" - ½" wide grosgrain ribbon
- 1 yd. - 4" black dacron
- 15' - 150# line - 1.4mm diameter
- 1 - custom "T" fitting (Kite Studio part) (See drawing below)

* Items supplied in workshop kit
  * All precut re-enforcements
  * Pre-cut edge binding strips
  * Pre-cut sails
  * Pre-cut frame

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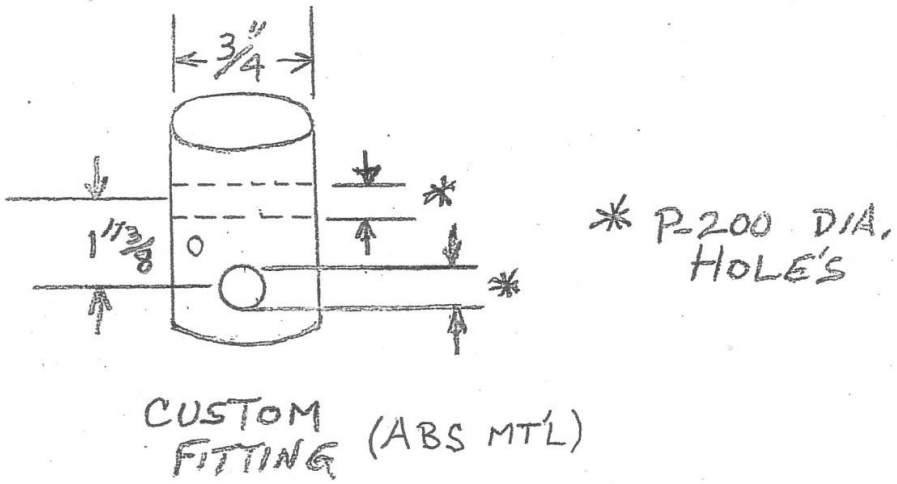


Marconi Workshop Construction Details

*K Kit parts completed by Instructor

*K * Layout Templates.
*K * Cut out Wings. (3/4 oz. RSN/P)
*K * Cut out Keels. (3/4 oz. RSN/P)
*K * Cut ¾" edge binding strips for canard and main wing. (RSN)
*K * Cut 2 - 2" W X 60" L strips for main wing spar sleeve. (RSN)
*K * Cut 1 - 2" W X 42" L and 1 - 2" W X 16" L strips for keel sleeve. (RSN)
*K * Make re-enforcements. (Use templates) (4 oz. Dacron) See full size plan.

- Mount re-enforcements on all 4 wing tips. (Apply to both sides.)
- Shape edge binding to match all wing radii. (Match the curves.)
- Mount edge binding on trailing edge of main wings.
- Mount spar sleeve on leading edge of main wings. (Up to the crease.)
- Mount edge binding on leading edge and trailing edge of canard wings.

*K • Shape Keel sleeves to match keel radii. DONE

- Prepare both keel sleeves - See drawing.
- Mount spar sleeve on front and rear keels. (Up to the crease.)
- Mount edge binding on trailing edge of front keel.
- Mount edge binding on leading edge of rear keel. (RSN)
- Mount edge binding on trailing edge of rear keel.
- Assemble 2 canard wings and front keel. (Laminate and hot cut to fasten together.)
- Assemble 2 main wings and rear keel. (Laminate wings and hot cut to fasten together.)
- Make straight stitch sew 3/8" in from hot cut edge. Do this on both canard and main wing assembly.
- Open wing panels and fold down seam edge and sew 1/16" from edge. (fold same direction on both wing assemblies - (because it looks nice).
- Mount re-enforcement at center of main wing leading edge. Apply to both sides. (One requires slit).
- Hot cut notch in center of main wing for spine and horizontal spar fitting. (Use template)
- Make 1/4" grosgrain loops for bridle, tension line, and tail on keels and mount.
- Make 1/4" grosgrain loops for wing tips (4) (3/8" loops will suffice).
- Make batten pockets (with ½" webbing) for rear keel batten spar. (See plan)
- Cut batten spar to custom fit. (Not too long - not too short).

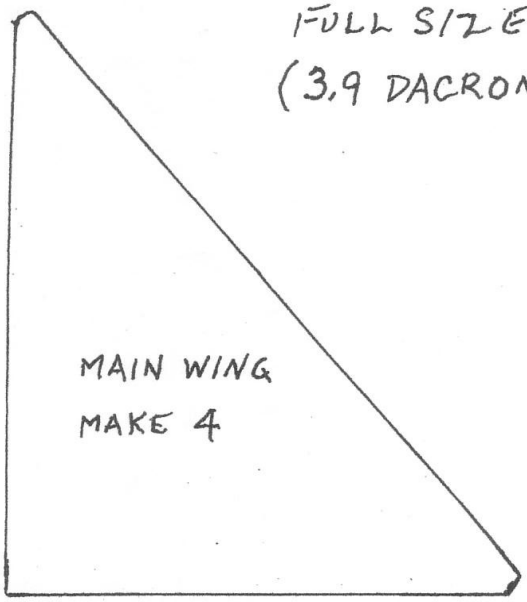
*K * Prepare P-200 wing spars. Cut one @ 16 ¼". Insert 2 - 3" ferrules and glue. (This is horizontal wing center spar)

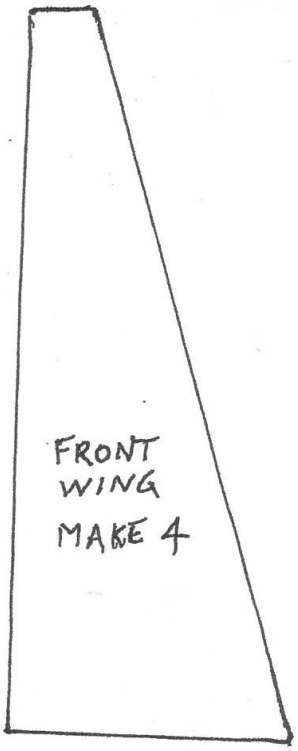
*K * Prepare spine 2 spars. Insert 1- 3" ferrule in full length spar and glue. Mount 1 vinyl end cap on each spar.

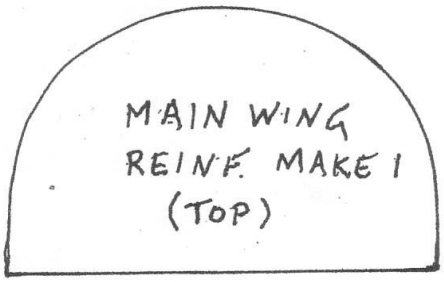
- Using Line, make loops to attach front and main sails to horizontal spar end caps. Make tension line for keels. (See plan.)
- Make tail to your design approximately 25' long (not too heavy).Fuzzy tail suggested.
- Make and attach bridle per drawing.

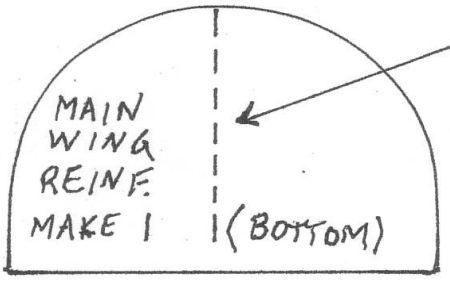
GO FLY ---- HAVE FUN !

TEMPLATES
FULL SIZE
(3.9 DACRON)

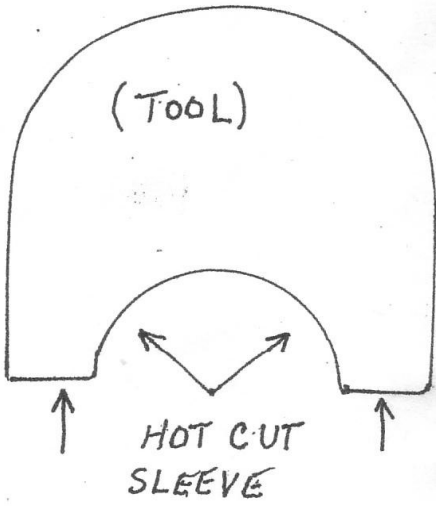






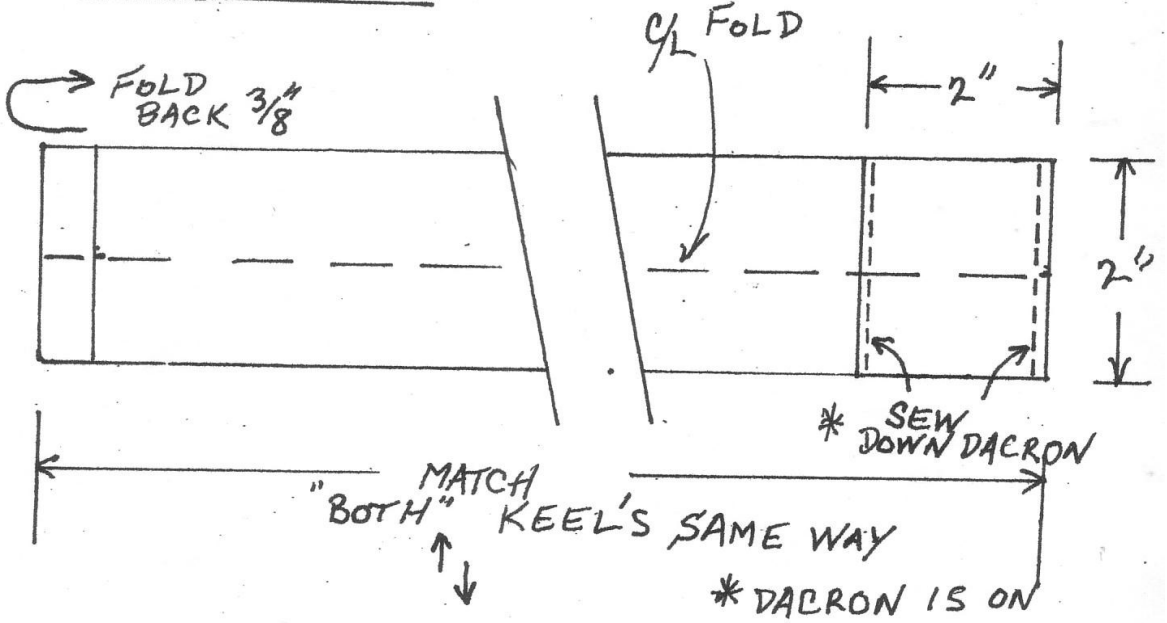


SLIT AS
REQ'D.

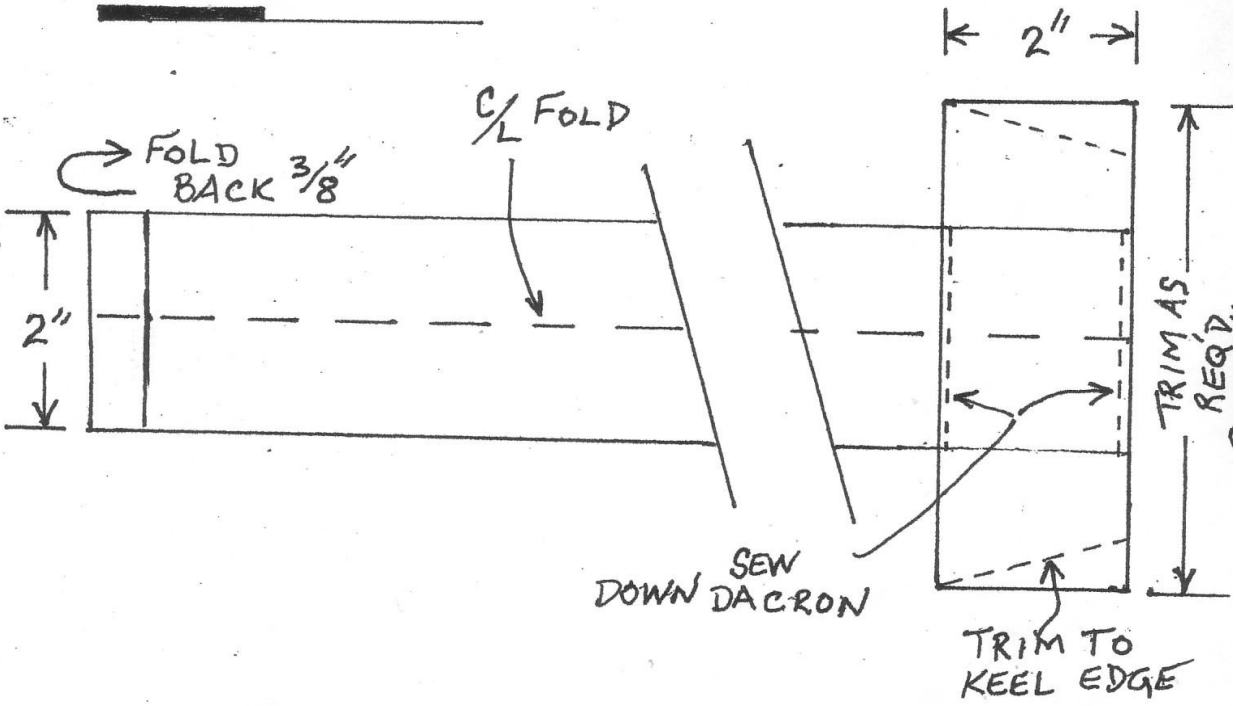


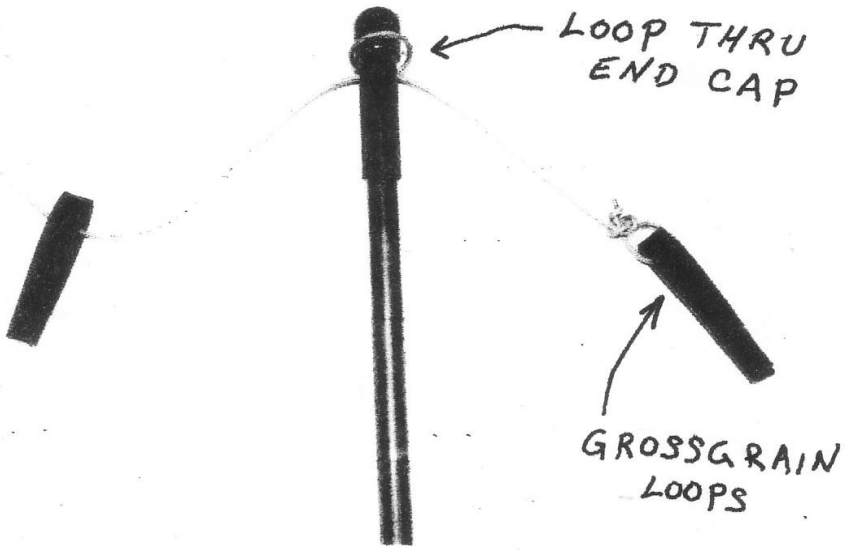
PREPARE KEEL SLEEVES

"REAR KEEL"



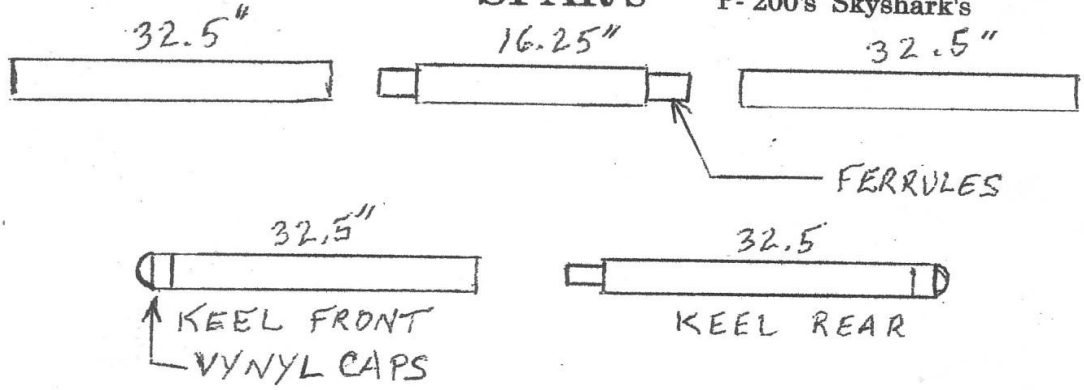
"FRONT KEEL"



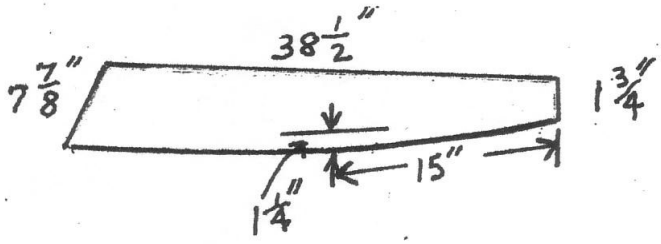


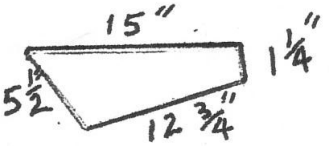
SPAR's

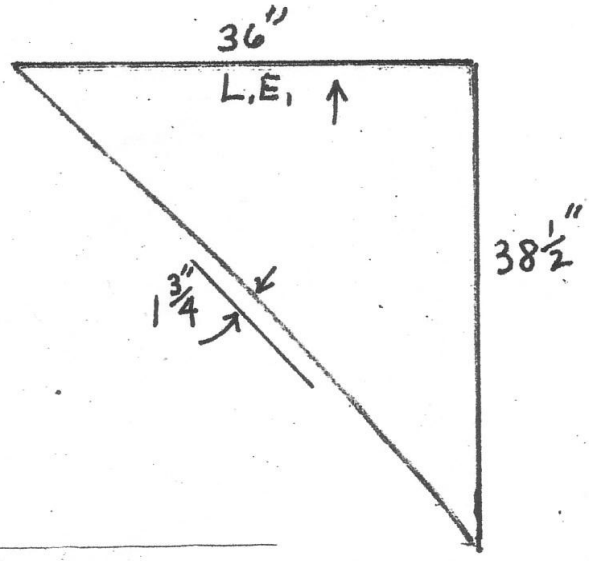
P- 200's Skyshark's

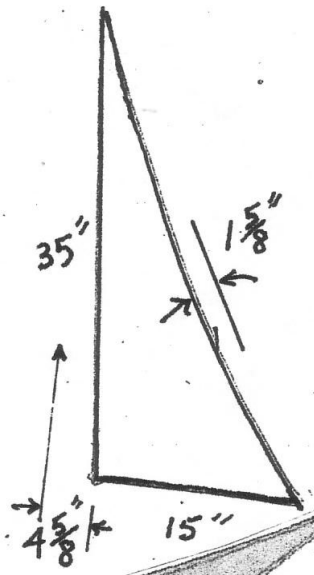


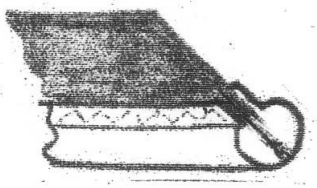
MARCONI



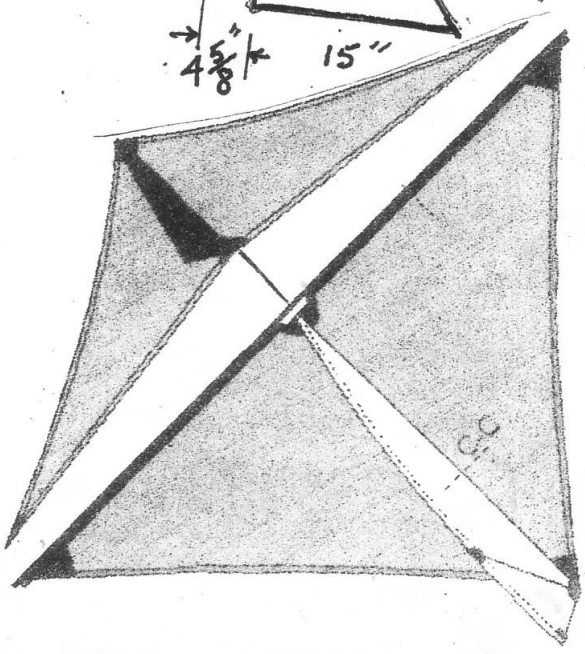




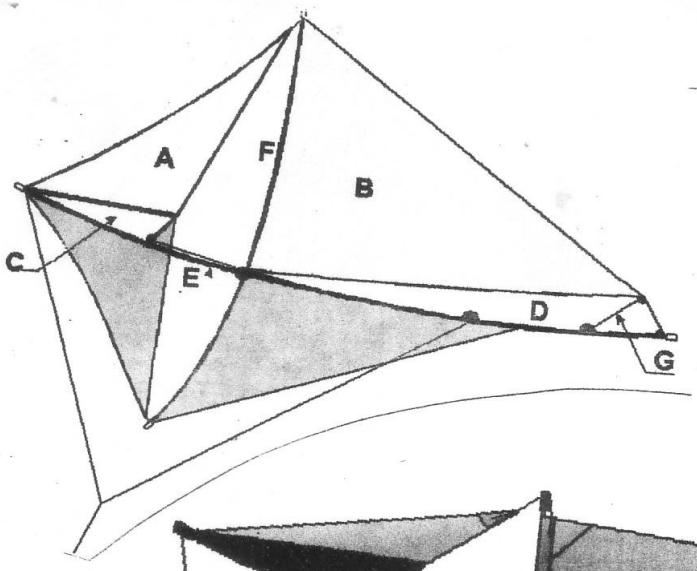




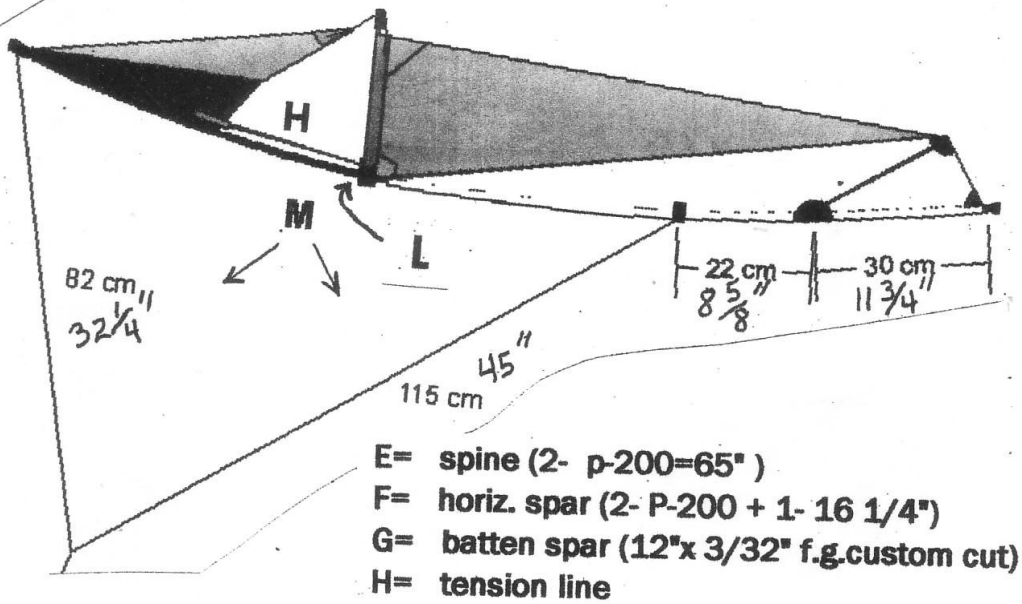
spar sleeve detial



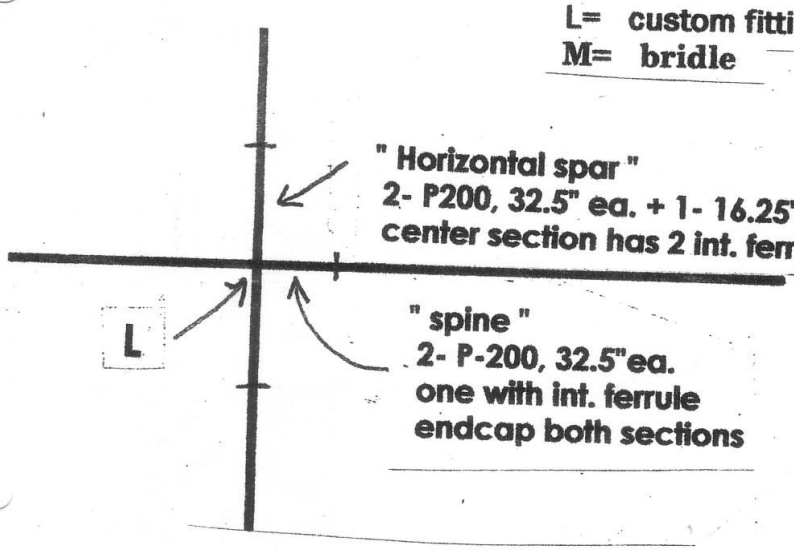
MARCONI



A = front wing
B= main wing
C= front keel
D= rear keel



E= spine (2- p-200=65")
F= horiz. spar (2- P-200 + 1- 16 1/4")
G= batten spar (12"x 3/32" f.g.custom cut)
H= tension line
L= custom fitting (cross drilled for p-200's)
M= bridle



ASSEMBLING THE CLIFF QUINN MODERN MARCONI KITE.

First put the 2 pieces of spine together and feed in to the upper and lower sails with the stand-off in between. NB. Use the hole nearer the groove.
Feed the centre section of the spreader through the sail pocket from one side, through the other hole in the stand-off and then in to the other sail pocket.
Insert one outer spreader section through the sail pocket and align with the centre section. Repeat for the other side.
Put the first end-cap over one end of the spreader and then bow the spreader and fit the other end-cap. Loop the line from the upper sail round the groove in the stand-off and tighten the sliding know. This should leave the spreader bowed and the sails tensioned.
Check that the lines to the end caps are not twisted or round the spar and the bridle is on the front of the kite. It may be necessary to remove the top sail and untwist it to get this sorted.