

Seattlebutt

Yankee Clipper

Contest Club

no. 25 Sept 1980

Pres - K1AR

VP-AM - K2TR

Secy - K1GO

Treas - N1TZ

FROM THE PRESIDENT'S DESK

The fall contest season is rapidly approaching us. YCCC members all over the Northeast are putting the final touches on their stations and antennas with comparative reports flying around everywhere. At the same time, others are wondering where they are going to operate this time around. It has been shown in the past that a winning team requires coordination. Our next meeting will be where a lot of that coordination is going to take place.

As many of you realize, the October meeting is always the most important one of the year. Traditionally we receive the most publicity, gain the greatest number of new members, and decide our game plan for the contest year at the NE Convention. I can't emphasize enough how important your attendance is to our success this fall (not to mention the fact that you'll have a good time to boot!!).

Secondly, each and every one of our members is going to be contacted by an area manager in the next few weeks. We want to know your plans and problems. A tentative list of area managers for this contest season has been drawn up but is by no means final. The job of an area manager can be rewarding when a good job is done. If you want to be personally responsible for your part of YCCC, you're the guy we want for the job. Feel free to contact one of the officer's in the near future for more information.

....de K1AR

OFFICIAL MEETING

Don't miss out on the best YCCC meeting of the year at the New England Convention at Boxboro, Ma on Saturday Oct. 4 starting at 3 PM. There is a lot of important business to attend to as well as a special surprise to be announced for a lucky YCCC member. See you guys there.....

FINAL SCORE OF W2YV'S BASH

A little over a month ago, 30-40 YCCC members converged on LaGrange NY for the annual W2YV get-together. Some of the more news-worthy comments were:

- "So Fred, what did those bottle rockets look like at 110 feet?!" Fred answered, "Oh, probably the same as the ones I shot back at you guys."

- "I don't care what anyone says, those W2s stalled for darkness in the last inning."

- "Pass the mike to me, I didn't work him yet."

- "Bruce, that was quite a movie," Scott exclaimed!!

- "Gee Andy, I'm surprised they took Bill's KWM380 as a deposit for those 57 mushroom pizzas."

Needless to say it was a great time for all present. A personal word of thanks goes to Dave, W2YV, whose abundant generosity made it all possible.

CONTEST WRAPUPS

YCCC has done it again - WBIANT, NLEE and WALUZH combined to produce the high club score in the 1980 Mass QSO Party. They each won in their county, and Matt beat everybody. Other familiar calls in the results are KIMEM, K1UR (mobile from 8 counties), and WBLHIH (not a member - yet!)

KALEP (aka AK1A) took third in the 79 ssb SAC, while WLYN bested everyone on CW.

According to an NCJ tabulation of SS single-op records, YCCC members hold 7 cw section, 8 ssb section, and 4 division records, along with top highest ever ssb score. Here's the breakdown for our boys:

- K2TR - ENY ssb, Hudson ssb, WI ssb, Southeastern ssb, top ssb
- N2NT - ENY cw, NLI cw, NLI ssb
- K1UA - EM ssb, WA cw, Northeastern cw
- K1GQ - NH cw, New England cw, PAC cw
- K1AR - EM cw
- K1DG - NH ssb
- K1RQ - ME ssb
- K1AO - RI cw
- WA1TFF - RI ssb
- WB2JSJ - VT ssb

CAC REPORT

The Communications Manager (W1XX) recommended - and the Board accepted - the following actions re DX test (CAC and Hq Awards Committee votes in parens):

- Return to old format of W/VE working the world (6-5, 4-2-1)
- Retain single band entries (7-4, 6-0-1)
- Limit station size to a 500 meter circle (11-0, 6-0-1)

The Board has instructed CAC to study advancing the date of FD in appropriate years to avoid conflict with a Canadian holiday. Any comments?

FOR SALE

Good Drake C-line. Looking for 4el KLM 40m yagi, 25G and 45G tower...N1GL

ROSTER UPDATES

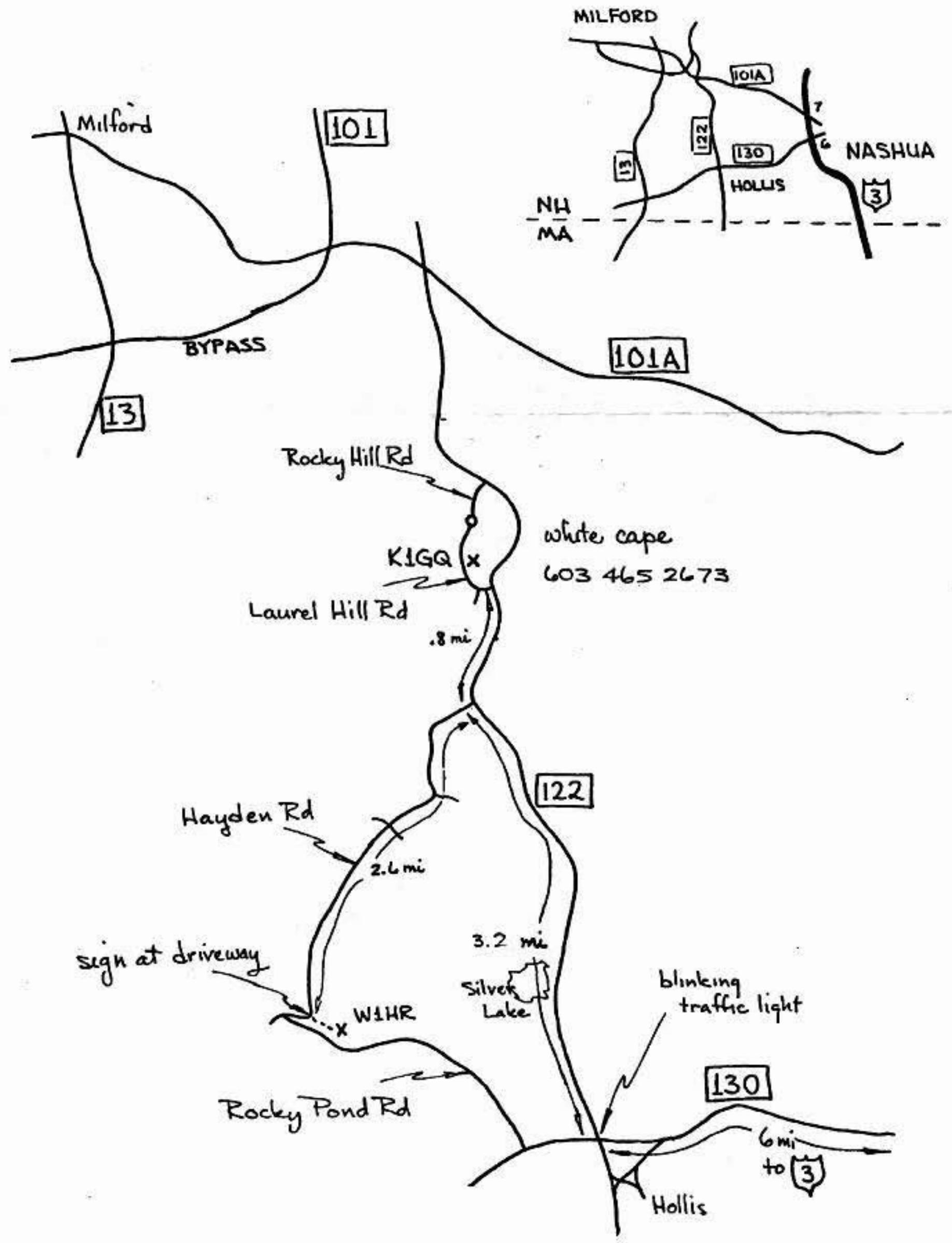
- K1EA - (w) 617 653 1466
(h) 617 429 1250
32 Hill Rd
Medway, MA 02053
- N1RC - (w) 617 272 3000 x1879
- K2DM - (w) 201 949 5076
(h) 201 364 5705
- K3ZM - (w) 804 971 2477
(h) 804 293 4055
1 Fairway Lane
Charlottesville, VA 22901
- W1ZT - (h) 413 443 3084
- N5UR - (w) 212 552 6686
- K2PH - where are you?
- K1IR - (w) 617 964 4900 x562
(h) 617 891 8815
411 Stearns Hill Rd
Waltham, MA 02154
- KALEP - now AK1A
- K1VR - (w) 617 259 0330
Willarch Rd
- K1AR - (w) 617 273 0480 x335
- N1GL - (w) 502 581 8188
(h) 502 893 6114
Overbrook Rd
Louisville, KY 40207

YARD SALE

Diane Fisk will be selling W1HR electronics stuff on 11 and 12 October from 9AM to 6PM. A very large assortment of components, connectors, test gear, ham gear, and radio antiques is available. See map for directions (5 minute drive from K1GQ)

YCCC SOCIAL

Since some of you may be in the neighborhood anyway, K1GQ will host a social gathering on 11 October, from mid-morning to whenever. Highlights: TDR by W1RR, a working KWM380 (???), BIP and BOP, CD and VK/ZL contests, fall colors. Bring wives, etc., and refreshments. Contact Bill if you want to sleep over. Directions shown on map.



UPPER - LOWER - BIP - BOP SWITCH

Here is the switching scheme I use to select upper, lower, both-in-phase and both-out-of-phase for my stacked yagis on 10,15, and 20 meters. I started with three runs of CATV hardline from the station to the midpoint between the yagis. This coax is cheap and low-loss, but has 75 ohm characteristic impedance, whereas my broadband transmitter, tvi filter, etc., want to see 50 ohms. My solution was to maintain everything at 75 ohms between the station end of the coax and the antennas, and use a series-section transformer at the transmitter end to convert from 75 to 50 ohms. The drawing shows how these are built, one per band (their bandwidth is much greater than that of the antennas.)

Next, I built three relay boxes for the tower end of the hardline runs. The schematic shows the general idea - the only difference between the boxes is the length of the quarter-wave sections.

K3 connects the two antennas in parallel, through equal lengths of feedline at the UPPER connector, and through a one-half wavelength longer feedline for the upper antenna at the LOWER connector. K2 selects the UPPER connector for BIP operation, and the LOWER connector for BOP operation. The parallel combination of 75 ohm antennas gives 37.5 ohms, which is transformed back to 75 ohms by the quarter-wave 50 ohm section, inserted by K1.

For upper/lower selection, K1 bypasses the impedance transformer and K3 disconnects both end of the 75 ohm quarter-wave section (if one end were left connected, the open end would reflect a short at the other end.)

RF wiring is short to avoid impedance bumps and unbalanced phase shifts as much as possible. I didn't use connectors on the quarter-wave sections to save \$\$ and reduce the number of potential connector failure points.

The diodes across the relay coils dump the current when the switch disconnects the relays, which extends the life of the switch contacts. The steering diodes across the switch contacts could be installed in the box, but are easier to replace after a lightning hit if they're indoors. Any silicon rectifier will do; I use 1N4001s. Note that a DC relay supply is required so the steering logic will work.

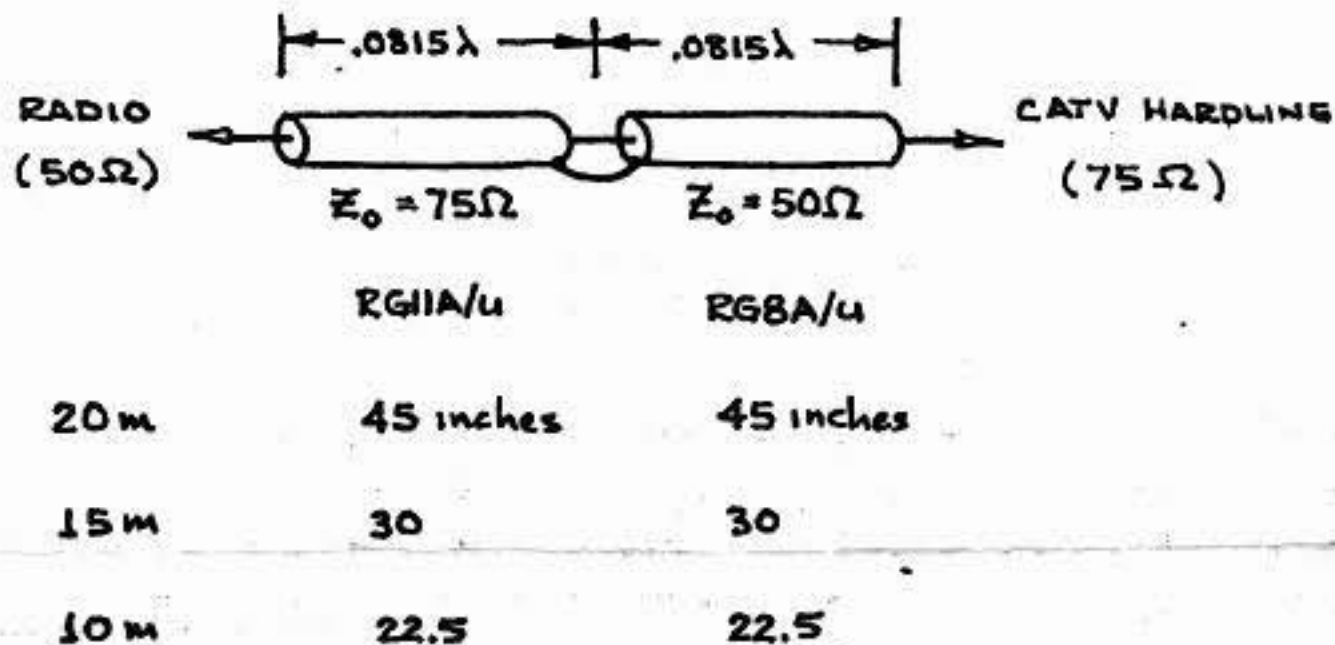
The two antennas are adjusted to match 75 ohm coax (RG11A/U). I cut two equal lengths of feedline for each band, long enough to reach from the antennas to the relay boxes, and then cut a quarter wavelength section off one of each pair. The shorter feedline is connected to the lower antenna, and the cut-off piece is used for the 75 ohm section wired to K3.

The control switch and power supply are nothing special. I prefer low voltage relays outdoors because 115 volts can kill you, and because the National Electric Code requires conduit for such wiring. Incidentally, most 115 vac relays will operate at 24 vdc if you reduce the spring tension.

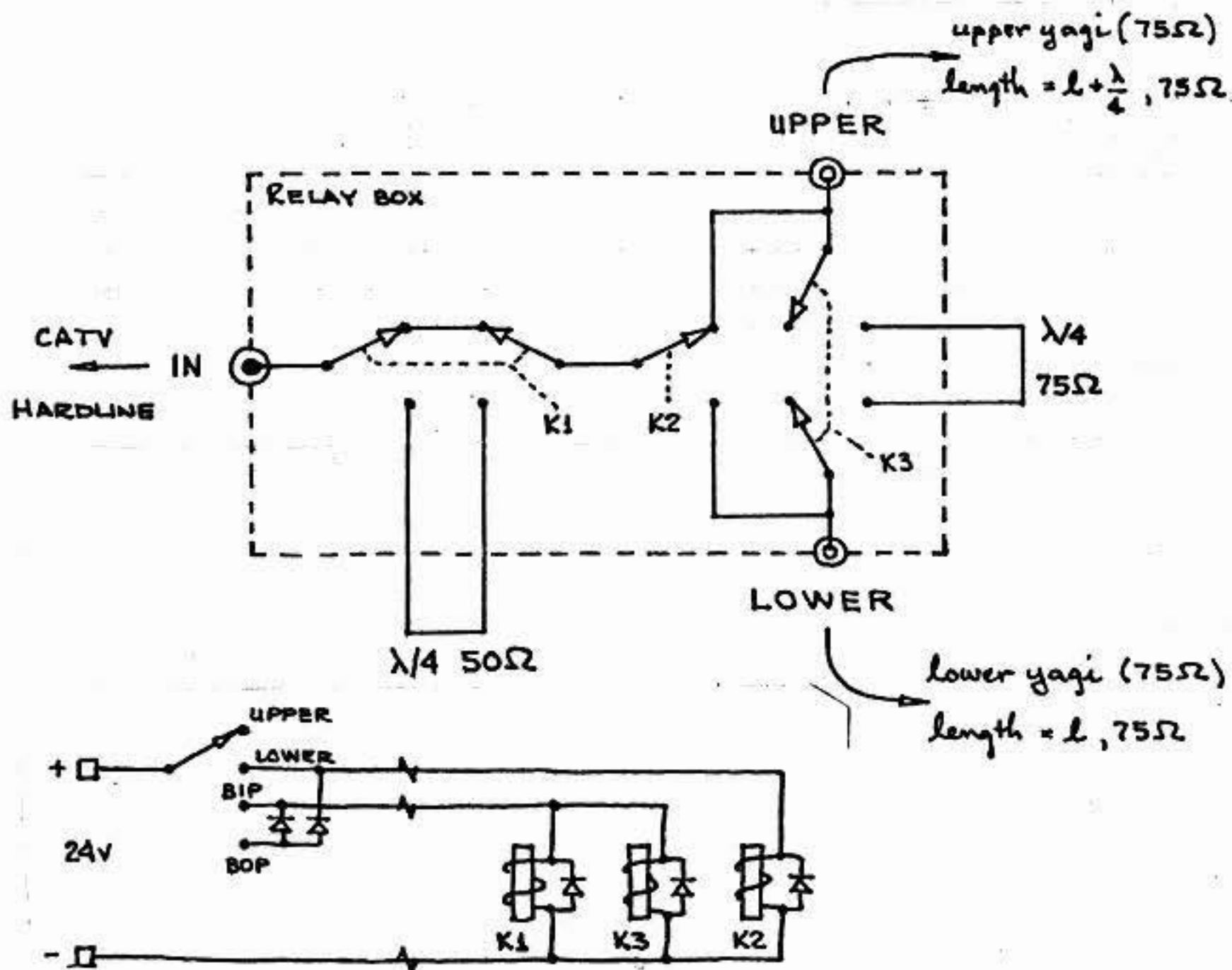
Your problem is probably different from mine. Let me know how you solved it, and I'll pass it along to YCCC in the BUTT.

....K1GQ

50:75 Ω TRANSFORMER



See: HAM RADIO, SEPT 1978, page 32
 QST, July 1978, page 14



YCCC
Box 501
Hollis NH 03049

FIRST CLASS

Calendar of Events

Aug. 30-31 FOUR Land QSO Party
Sept. 7 Bulgarian C.W. Contest
Sept. 10-12 YLRL "Howdy Days"
† Sept. 13-14 European Phone Contest
Sept. 13-14 CAN-AM Phone Contest
Sept. 13-14 Pennsylvania QSO Party
Sept. 13-14 Wash. State QSO Party
Sept. 13-14 Cray Valley S.W.L.
Sept. 14 North American Sprint
Sept. 20-21 MD/DC QSO Party
Sept. 20-21 Scandinavian C.W.
Sept. 27-28 Scandinavian Phone
Sept. 27-28 CAN-AM C.W. Contest
Sept. 27-28 Delta QSO Party
Sept. 28-29 Classic Radio Exchange
Oct. 4-5 California QSO Party
Oct. 4-5 VK/ZL/Oceania Phone
Oct. 11-12 VK/ZL/Oceania C.W.
Oct. 15-16 YLRL Anniv. C.W. Party
Oct. 18-19 CLARA AC-DC Contest
Oct. 18-19 WADM Contest
Oct. 18-19 Boy Scouts Jamboree
Oct. 18-20 ARCI QRP QSO Party
Oct. 25-26 CQ WW DX Phone
Nov. 5-6 YLRL Anniv. Phone Party
Nov. 8-9 European RTTY Contest
Nov. 8-9 Inter. Police Contest
Nov. 9 Czech. Contest
Nov. 15 DARC 10 Meter Contest
Nov. 29-30 CQ WW DX C.W.

CQ • September, 1980

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