

VE3 OSR

georgian bay amateur radio club

BOX 592, OWEN SOUND, ONTARIO N4K 5R1

146.34 146.94

NEWSLETTER - APRIL 1978.

F E E D B A C K

Interm Editor.- I.Trenholm
VE3HIP

75 Metre net - 3.783 Mhz Sunday 9:30 Local Time A.M.

C.W. net - 3.540 Mhz 8:00 PM Nightly Local Time.

EXECUTIVE: President - Ian Trenholm VE3HIP
Vice-Pres.- Ian Sutherland VE3HXX
Sect.Tres.- Cy Weaver - VE3DQA

Next Meeting at Bayview Manor - April 20th at 8:00 P.M. Sharp.
Directions on the repeater if required.

PRESIDENTS NOTES

- Elections in the offing for club executive -- Give some thinking about your clubs future. Input = Output, so if you have not held an office in the past and are asked to stand please do so - You will enjoy your hobby even more.
- See Vern VE3BSF for Field Day participation. Its' always a great club get-together.
- Congratulations again in order for more operators obtaining their first and advanced tickets. See Dicks VE3BIS note inside on RSO Delegates report for names and call letters.
- The D.O.C. Inspectors plan to be in Owen Sound on the evening of May 8th, 1978 (Monday) at the C.I.A.G. Computer Building, 922 - 2nd. Ave. West, to hold further examinations for Amateur and Advanced Amateur tickets. Those planning to sit for this date should plan to be at the building by 7:00 P.M. Local time. Please contact Ian VE3HIP ,Owen Sound - 376 - 5620 ext. 282 days or 376 - 5096 evenings for further details.

DELEGATES REPORT

APRIL '78

Spring is sprung, but not in the Bruce-Huron Area. Ice on the lake still effects our weather so there's still a reluctance to do antenna chores for all but the hardiest.

The winter crop of new and advanced amateurs proved gratifying, three centres of learning being, the Flesherton High School with Wes White VE3EPC, Wes White VE3EPC, Wally Stoyko VE3FFn and Harvey Smith VE3FOT. The Kincardine Public School with Rick Gibson VE3ASH and Bill Hardly VE3EFX. The Owen Sound Classes were held in private homes with Ian Trendholm VE3HIP and Don Richards VE3IDS.

New Amateurs resulting from the efforts of all concerned above.

Jeff Marklevitz	VE3KPT	Chesley
Fred Kuznicki	VE3KPK	Owen Sound
Terry Walls	VE3KPI	Dundalk
Ken Cowan	VE3KPV	Port Elgin
Radford Nelson	VE3KPX	Kincardine
Steve Anger		Wingham

Advance certificates received

John Wylie	VE3IYF	Southampton
Bill Taves	VE3INV	Port Elgin
Don Richards	VE3IDS	Sauble Beach

Further D.O.C. examinations are planned and additional passes are expected.

The Georgian Day and Bruce Clubs are already planning Field Day events.

The Bruce A.R.C. have D.O.C. permission to use VE3TIV for the 01/61 repeater expected to go into operation this summer at Tiverton.

VE3MTR Association now boasts 24 members and big things are planned for the early summer.

GBARC C.W. Buffs are meeting nightly 8PM 3540 KHZ. The local repeater is used to untangle misplaced DIT's and DAN's, Hi.

The Georgian Bay Club sent a letter of endorsment to R.S.O,C.A.R.F, Minister of Communications and Local Federal Member.

Re: The Proposed Experimenters Licence.

Dick VE3BIS
Kitchener District (North) Delegate.

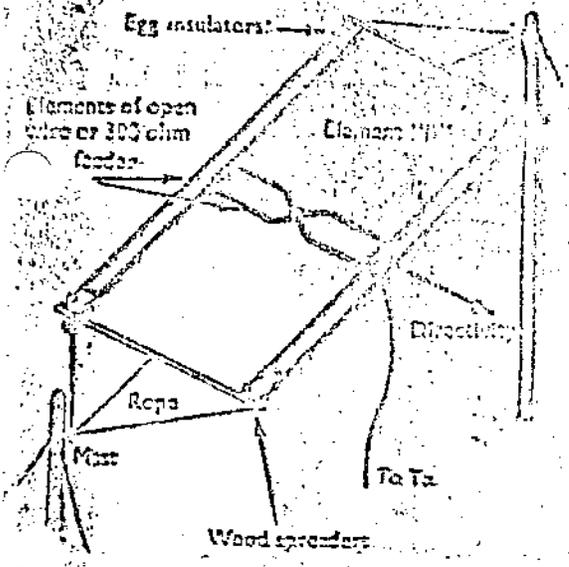


Fig. 2. Construction of the "ZL Special" aerial. The elements which are disconnected in the text.

overs. A model constructed to operate on 288 mc was made with open-wire lines supported on a wood frame-work, and for 10-

metre operation a similar arrangement would no doubt afford a compact and useful rotating beam (see Fig. 3).

Electrical Characteristics

The aerial consists simply of two folded dipoles fed approximately 135 deg. out of phase, the impedances at the point of feed being 70-75 ohms, so that a standard 72-ohm twin line can be used for feeding (any length)

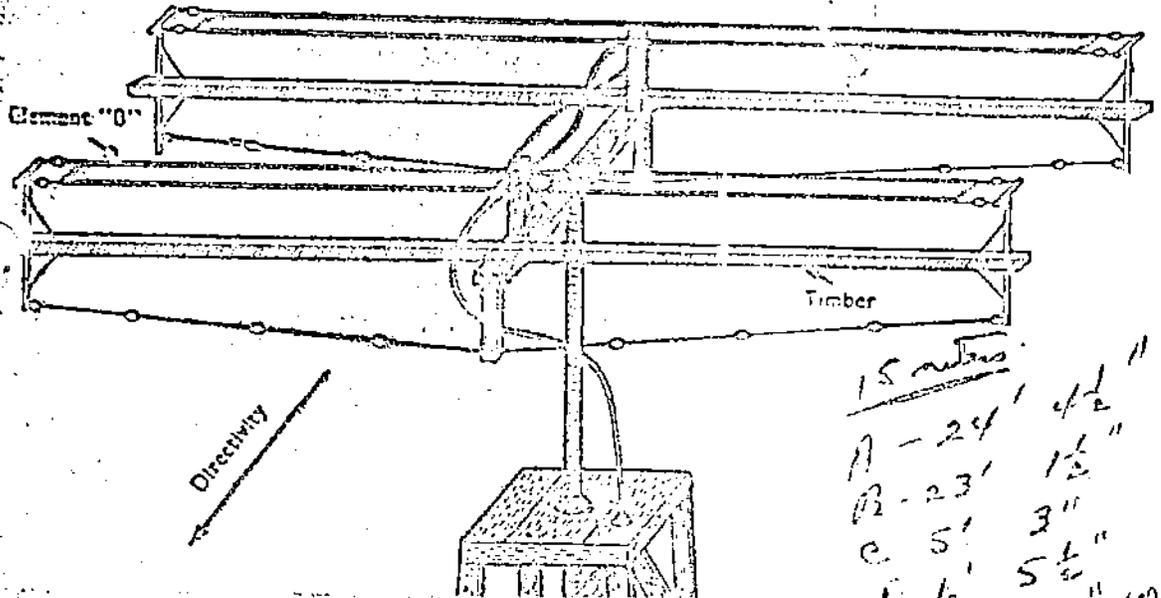
FORMULAE

For Diagram of Layout see Fig. 4.

- A. $492/\lambda_{mc} \times 0.95$
- B. $492/\lambda_{mc} \times 0.9$
- C. $584/\lambda_{mc} \times 0.1$
- D. $123/\lambda_{mc}$
- E. $246/\lambda_{mc} \times 0.77$ (Matching stub for 300-ohm line).
- F. $123/\lambda_{mc} \times 0.9$ (Feeding line).

DIMENSIONS

10 metres		20 metres	
A.	16 ft. 3 in.	A.	32 ft. 6 in. ^{65"}
B.	15 ft. 5 in.	B.	30 ft. 10 in. ^{61-8"}
C.	3 ft. 6 in.	C.	7 ft. 0 in. ^{14"}
D.	4 ft. 3 in.	D.	8 ft. 7 in. ^{17-2"}
E.	6 ft. 7 in.	E.	13 ft. 3 in.
F.	3 ft. 10 in.	F.	7 ft. 9 in.



from the transmitter. Alternatively, a 300-ohm line plus a Q-matching stub of 150 ohms impedance may be used (see dimension E in formula). Both systems have been used on models and each has worked to satisfaction.

The phasing line (F) can be made of 300-ohm ribbon feeder with the cross-over at the centre, or from open-wire line made of 1 SWG wire spaced 2 in. If open-wire line is used the length of the phasing link should be reduced to 7 ft. 6 in. for 20 metres and 3 ft. 9 1/4 in. on 10 metres.

Contacts made by ZL3MH with VK's resulted in S9 plus signals with the aerial only 7 ft. off the ground. He comments also on very good reports from the W's and on the exceptionally good receiving properties of this aerial. G3YF (Chingford, London) has been operating with the same design on 20 metres and has obtained reports of S9 plus phone from VE5 and VE7 with 100 watts input, and from W's and other VE's at strengths varying from S6 to S9 under adverse

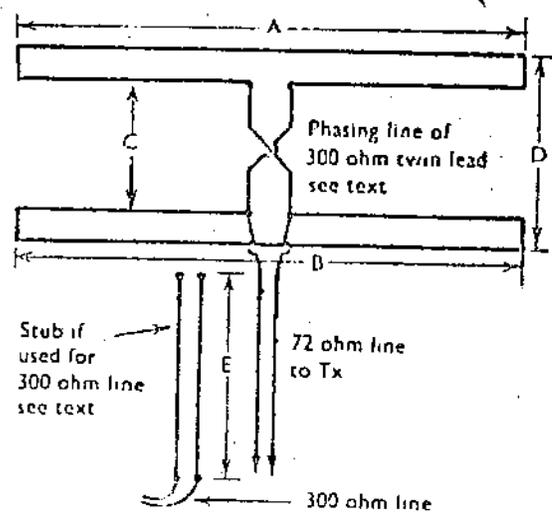
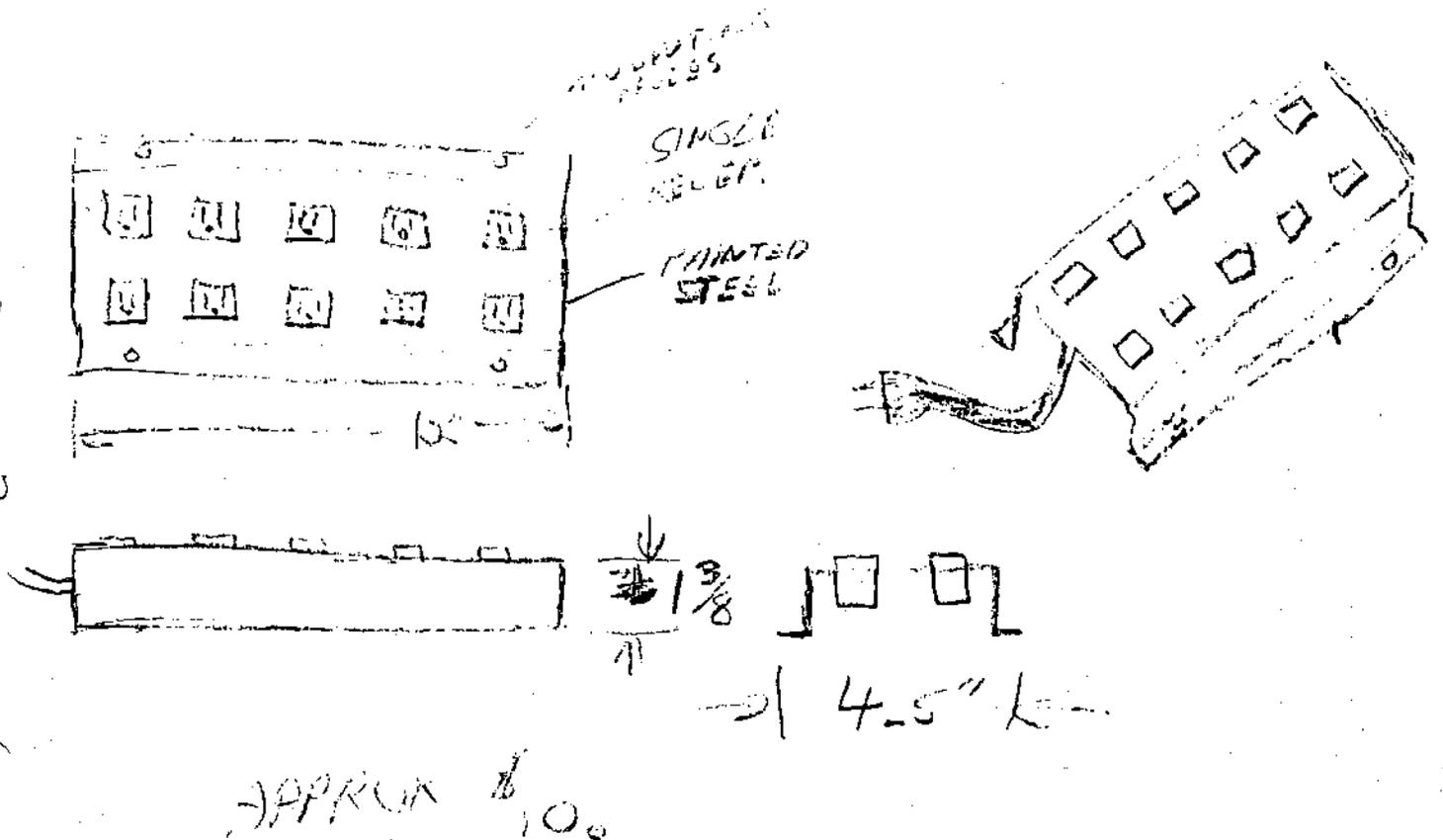
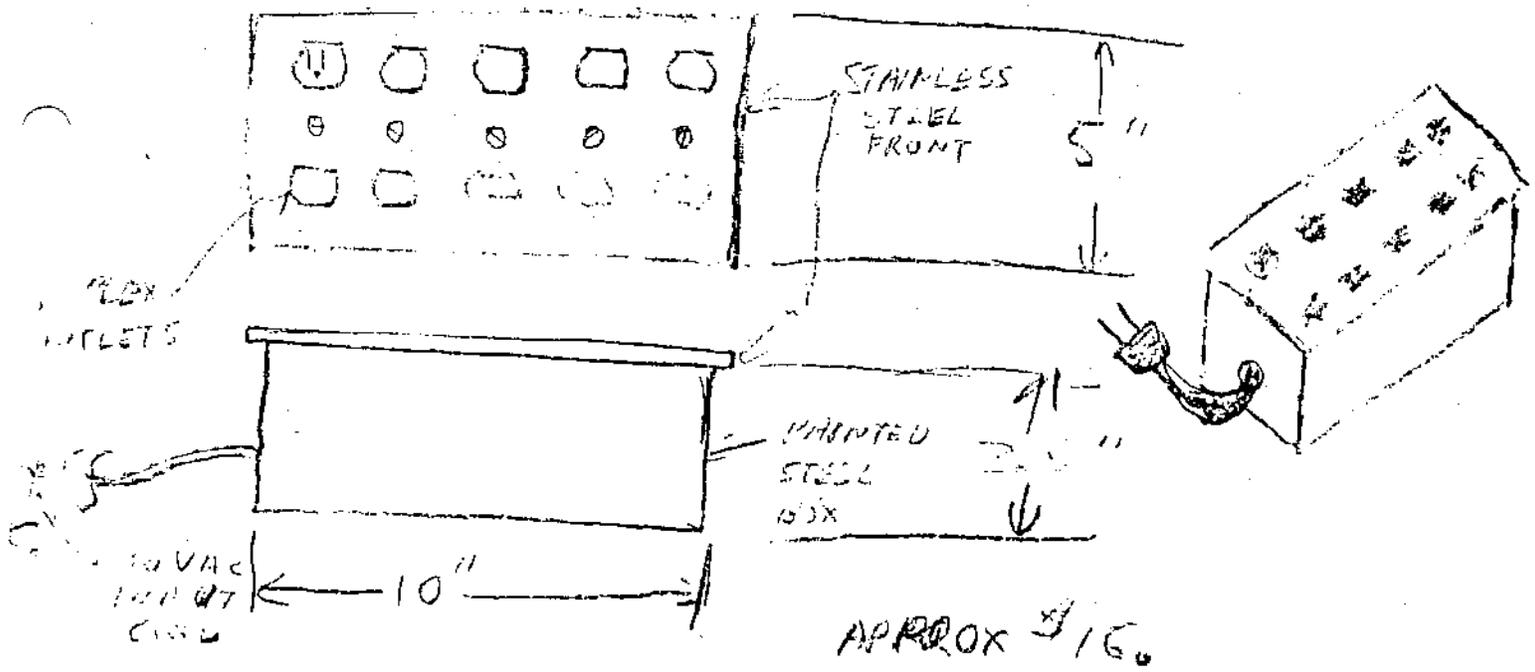


Fig. 4. Electrical layout sketch of the "ZL Special"; it is clear that the directivity of a fixed version could be changed simply by throwing the aerial over. (See Fig 2)

10-metre phone. The performances obtained from the vertical-down models support the

We used bamboo poles for spreaders, pipole wire about # 14 or anything close.
 To change directions of this beam if strung between two poles or what have you, just flip the whole issue over and you fire the opposite direction.
 Now how does that grab you?
 I don't think we had coax in those days so we used 110 volt lamp cord for feed line.



FOR ADDITIONAL INFORMATION ON THESE MULTIPLE PLUG POWER OUTLETS

CONTACT US AT: Don Richards, 1000 2nd Avenue North, Orem, UT