J–Pole Antenna tuned for 89 Mhz in the FM broadcast band

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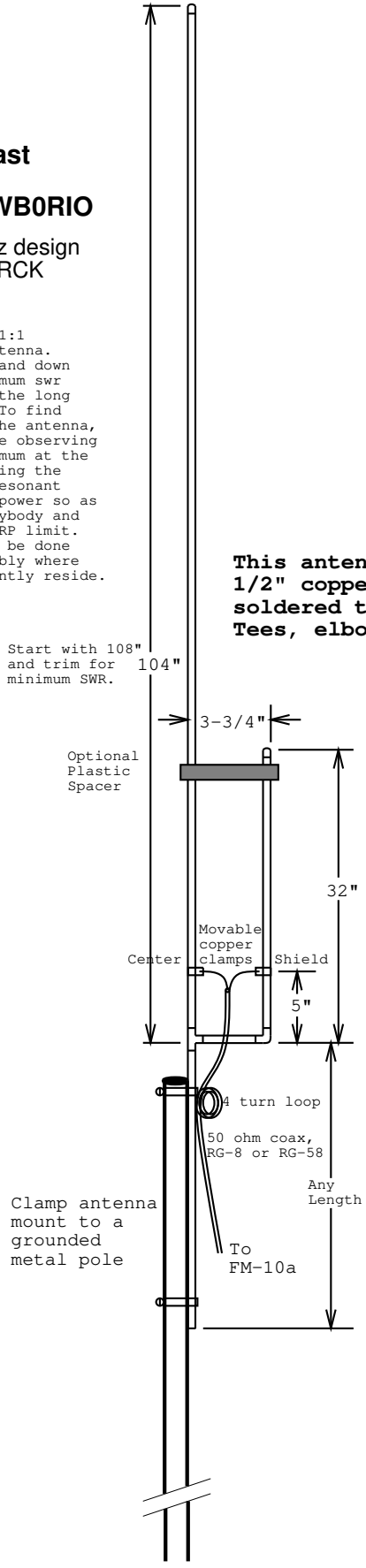
Based on the 146 Mhz design by Ed Humphries, N5RCK

It is possible to get a 1:1 SWR reading with this antenna. Move the coax clamps up and down in parallel for the minimum swr then trim the length of the long element for resonance. To find the resonance point of the antenna, sweep the FM10a VFO while observing the SWR, it will be minimum at the resonant point. Shortening the antenna will raise the resonant frequency. Use minimal power so as not to interfere with anybody and never exceed the legal ERP limit. All antenna tests should be done in a clear area, preferably where the antenna will permanently reside.

This antenna is made from 1/2" copper tubing and it is soldered together with plumbing Tees, elbows, and nipples.