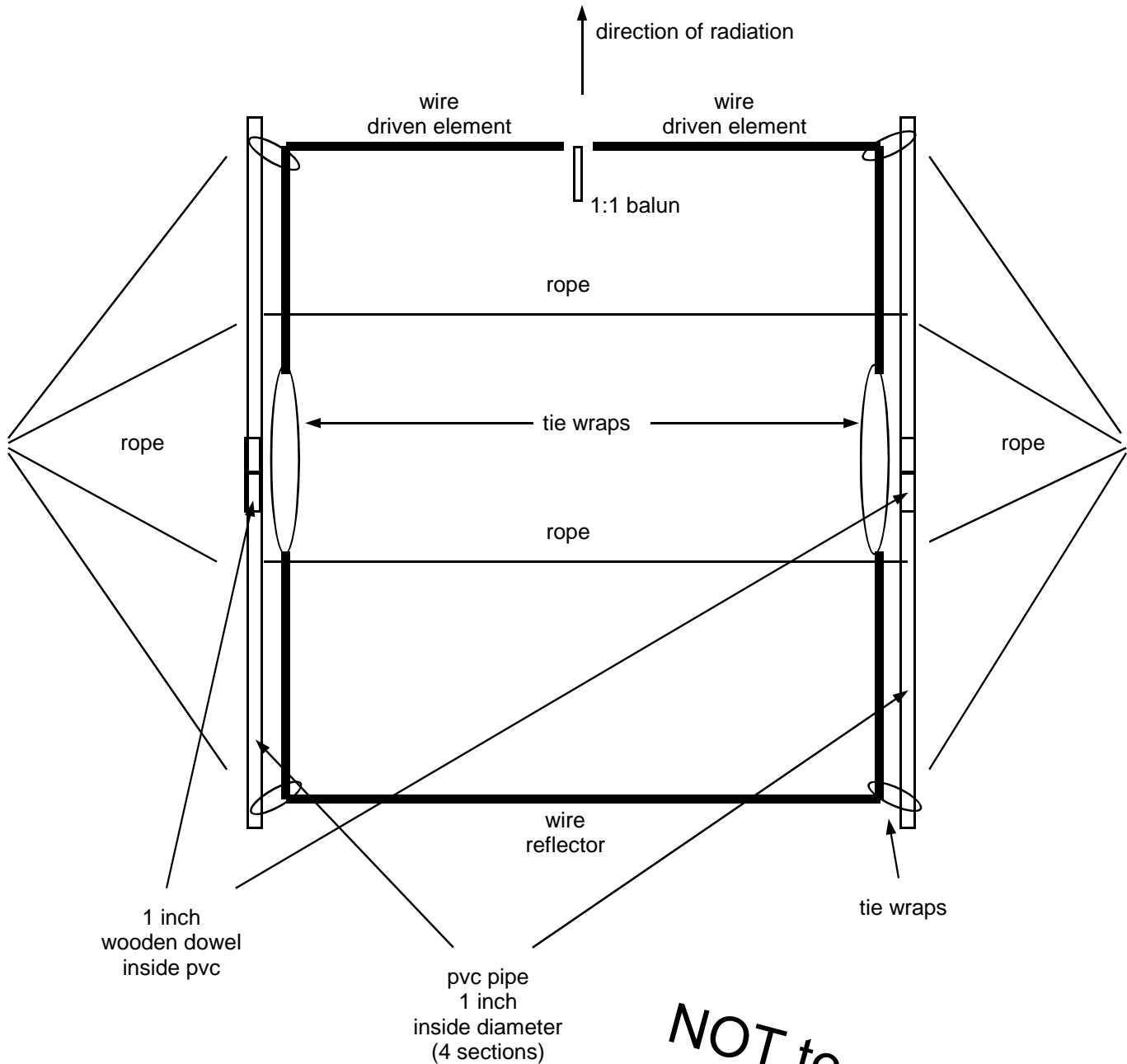


40 Meter Field Day Moxon Antenna Construction - NC6Q

see: <http://www.moxonantennaproject.com/construction.htm>



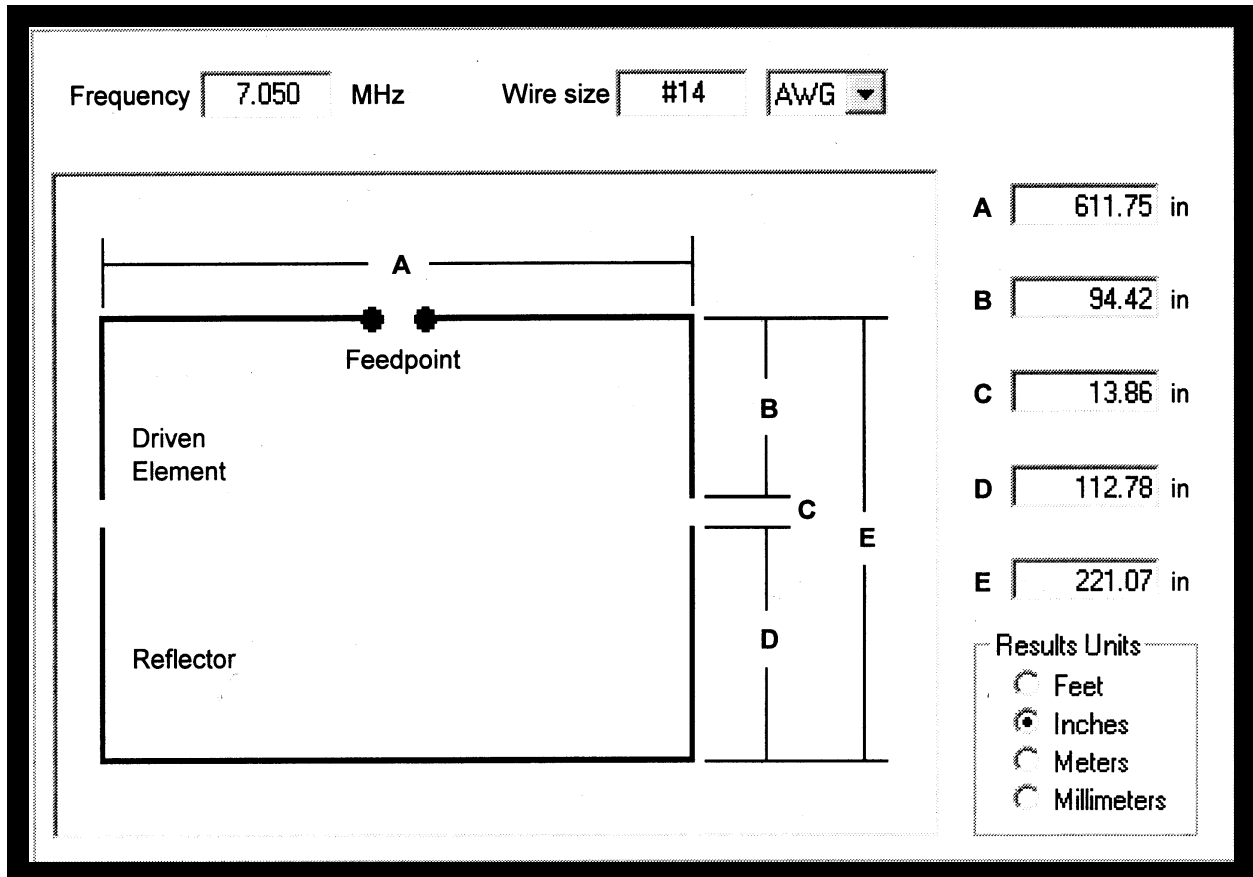
NOT to scale

This antenna is wider left to right than it is from front to back.

See following notes.

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40 meter Moxon antenna tuned for 7.050 MHz CW portion of the band.

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see: <http://www.moxonantennaproject.com/construction.htm>

Notes:

- Online sites show some Moxon antennas supported at the four corners by trees or other supports. For Field Day, I knew I could only depend on TWO supporting trees, so I invented this arrangement using 4 10-foot long PVC pipes.
- I laid out the balun (1:1, fed with 50 ohm coax) and wire on the ground per dimensions given for a 40 meter Moxon, and then saw that I could use 4 PVC pipes. I connected the two on each side together with hardwood dowels, one-inch in diameter, that fit perfectly into the PVC.
- Use your imagination where to drill and put connecting bolts and nuts. I used 4 eye-bolts on each side to attach the rope. I used clips on the ends of the rope for easy Field Day connecting and transporting. Since the wire dimensions are the important things and they should be fixed, the PVC only spreads out and supports the wire in the shape it needs to be in.
- I did use tie-wraps in the 4 corners, but, since the spacing between driven element and reflector is critical, I made my own device, at home, out of small PVC and insulators. You can use whatever (non-conductive) arrangement you want to achieve the spacing.
- I added those two rope pieces in the middle, on-site, when I saw that the two side PVC pipes were bowing out when I put it all up into the trees. You learn as you go.
- You might need a rope attached to a corner or two to keep the whole thing horizontal. If you can put this antenna up higher (good for you!), the weight of the coax will increase and you'll want to level it all off.
- The two photos on the last page are hard to make out, but it might help you get the idea. A 40 meter Moxon antenna is huge, but it works great. You can't beat its front-to-back ratio for Field Day (20 to 30 db depending on the literature).
- This is a quick and dirty explanation, but all the important things are there. I'll be happy to answer any questions you may have about its construction.

73,

Bob, NC6Q

(nc6q@arrl.net)

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W6RO Field Day 2010

In these pictures you can see the rope and PVC but not the wire.

