



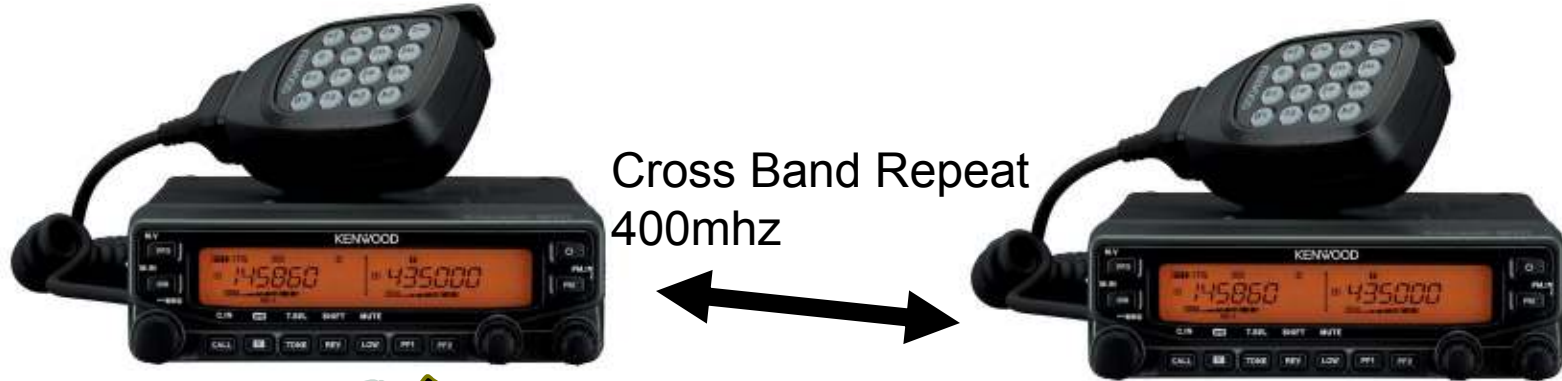
**Brazos Valley Amateur Radio Club**

# Cross Band Mobile Operation Public Service use

March 14, 2013

K5PGF Terry

# 2Meter /440 Mobile temporary Repeater via Cross Band repeat functions



146.75R



**\*\* CT 203.5  
Squelch tone necessary**



146.15 T

**\*\*PI Tone necessary**

One Mobile repeater should be higher than other.

**\*\* PL Tone 123  
necessary**



2M 146.xx -600  
Tone 123



2M 146.xx -600  
Tone 123



**Brazos Valley Amateur Radio Club**

# 2Meter /440 Mobile temporary Repeater via Cross Band repeat functions

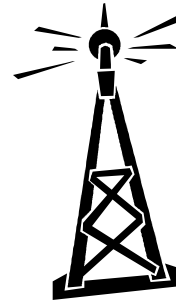
Use Case: Marine or Woods Remote repeat to Base station



Cross Band Repeat  
400mhz



2M Repeater



One Mobile repeater should be higher than other.

**\*\*PI Tone necessary**



44x.xxx Simplex



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# HomeOwner Assoc. Proofing

- Find the antenna
- Horizontal offset fed long wire with SGC tuner
- 4 Band Vertical Wire with MFJ Tuner
- K5PGF HOA approved letter.

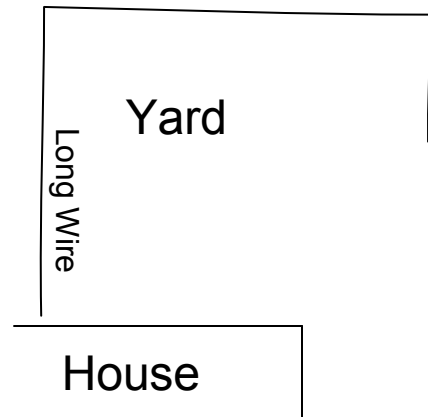




SGC Tuner mounted under eaves in waterproof box. 25' Ground wire off-center fed. 130' long wire in C shape around yard in trees.



Fence perimeter  
Trees in each corner

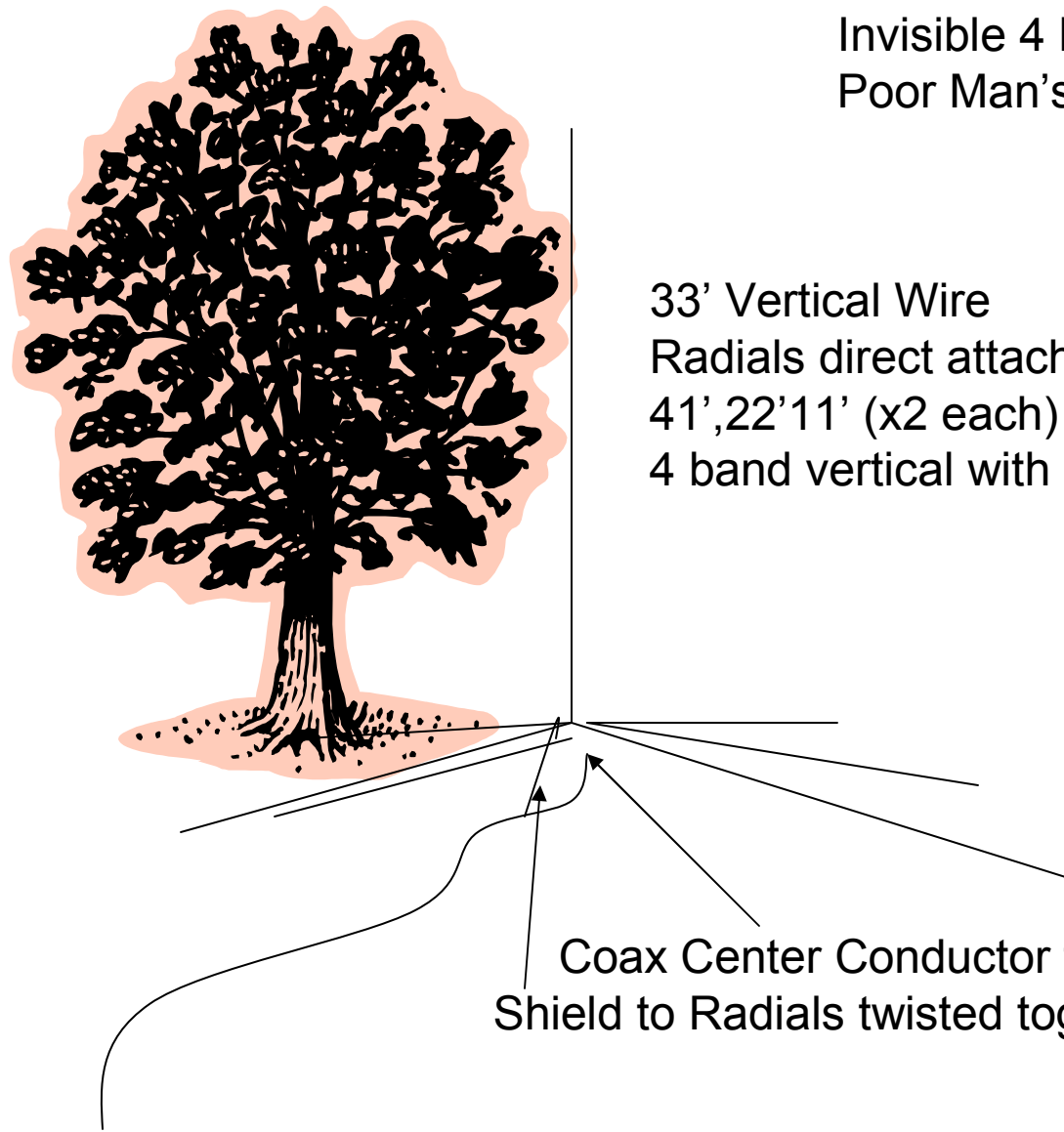


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Invisible 4 Band vertical in Tree  
Poor Man's Wire vertical.



33' Vertical Wire  
Radials direct attached to shield  
41', 22' 11' (x2 each)  
4 band vertical with MFJ Tuner

Coax Center Conductor to vertical  
Shield to Radials twisted together.



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