

# 44' 7-band doublet

As described by L. B. Cebik, W4RNL (SK)

*Antennas From the Ground Up #34*

<https://www.antenna2.net/cebik/content/gup/gup34.html>

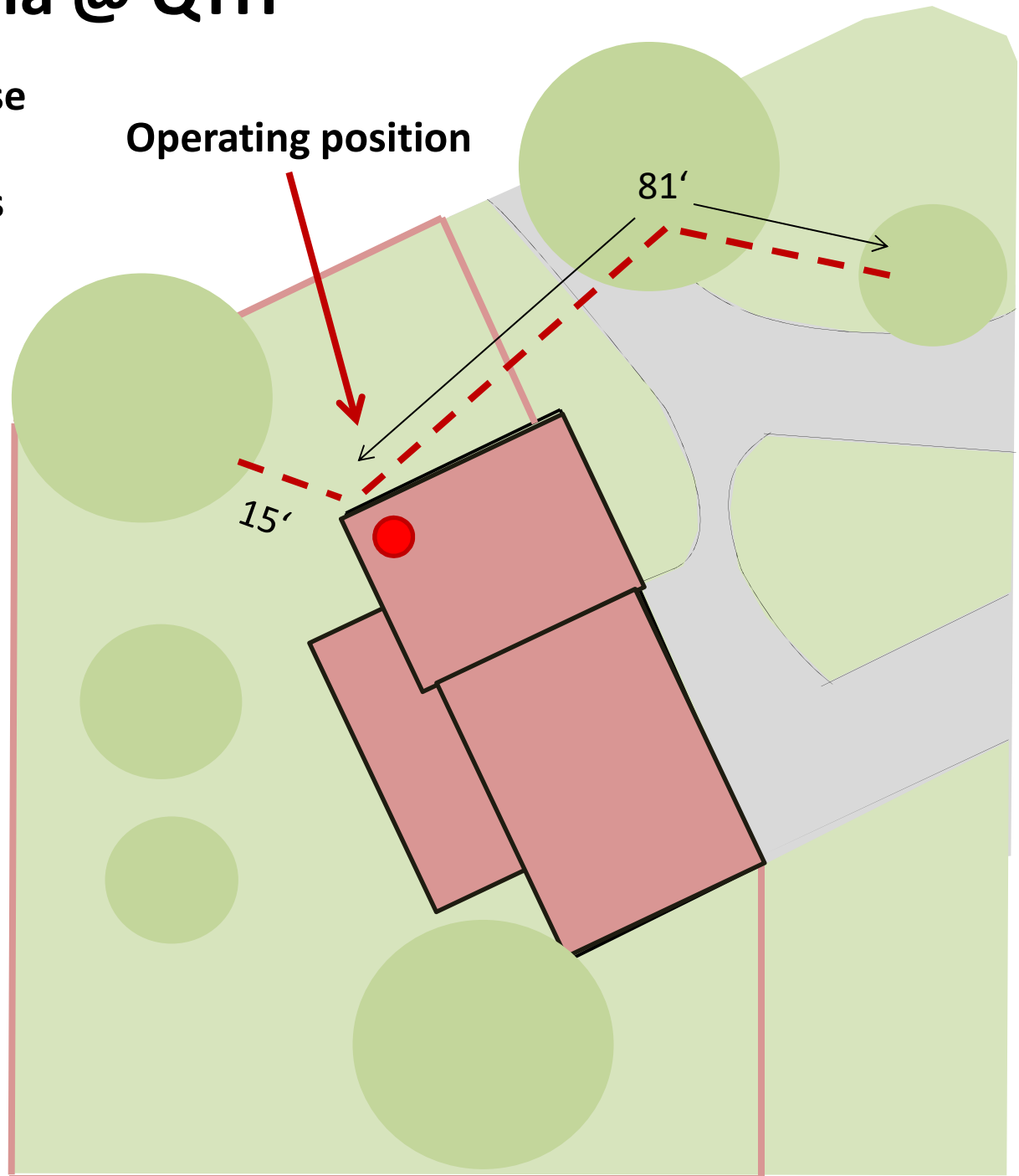


# Existing HF antenna @ QTH

81' EFRW + 15' Counterpoise  
9:1 Unun + ATU  
Convenient, multiple bands

Usable to South America,  
Canada, Asia

RF in the shack  
Cable modem & WiFi  
Router reboots > 80W

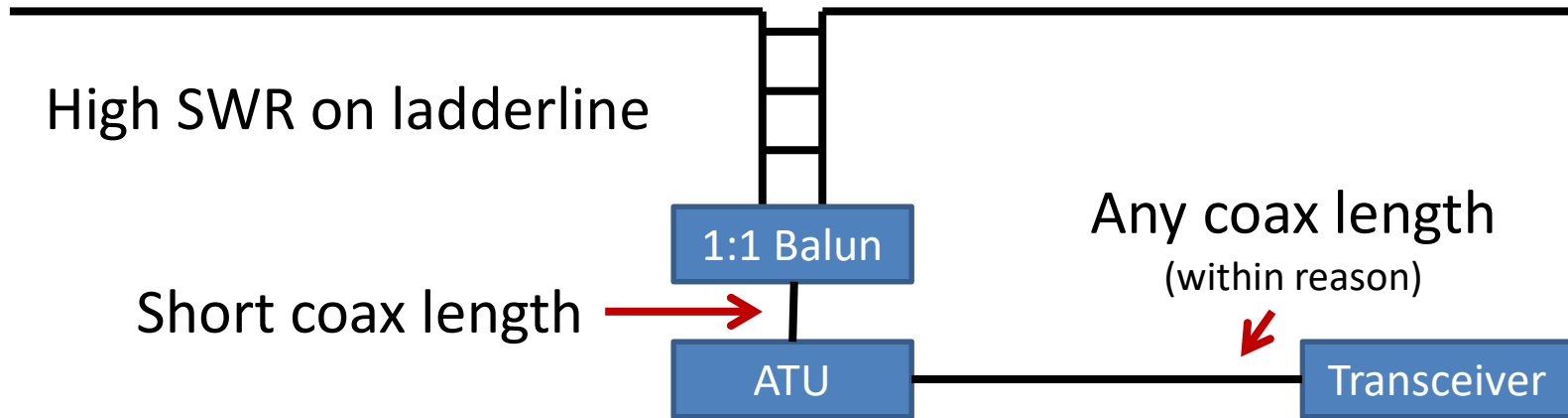


North



# I keep returning to doublets

44' antenna not resonant on any band, length noncritical



Single antenna 40 - 10 m  
 Usable patterns & gain  
 ATU required  
 Feed with ladderline  
 Trim *feedline* for tunability

	MHz	44' / wl
6m	52.0	2.33
10m	29.0	1.25
12m	24.9	1.07
15m	21.2	0.95
17m	18.1	0.81
20m	14.2	0.63
30m	10.1	0.45
40m	7.15	0.32
60m	5.36	0.24
80m	3.75	0.17

Azimuth Patterns  
44' Doublet  
66' High

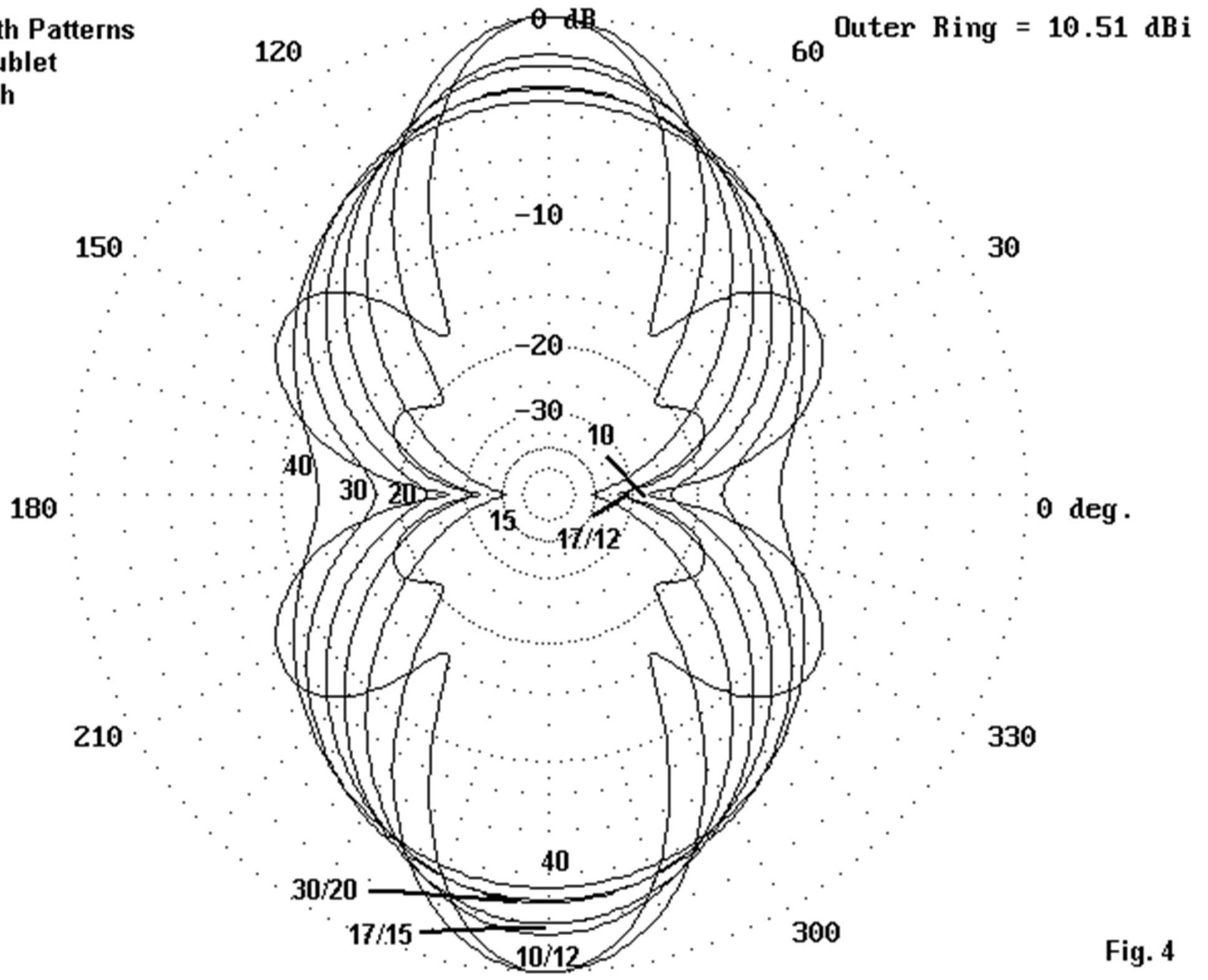
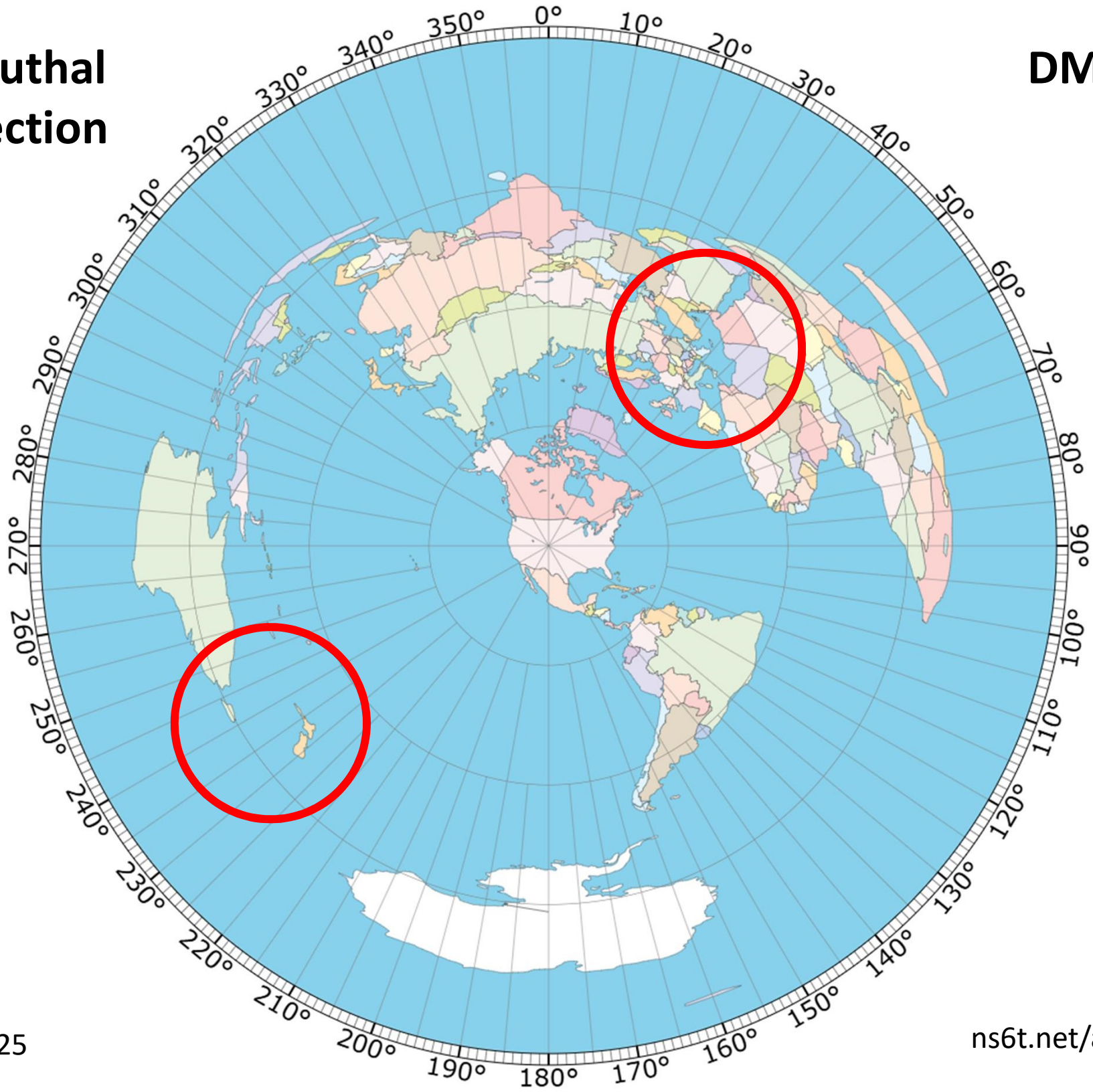


Fig. 4

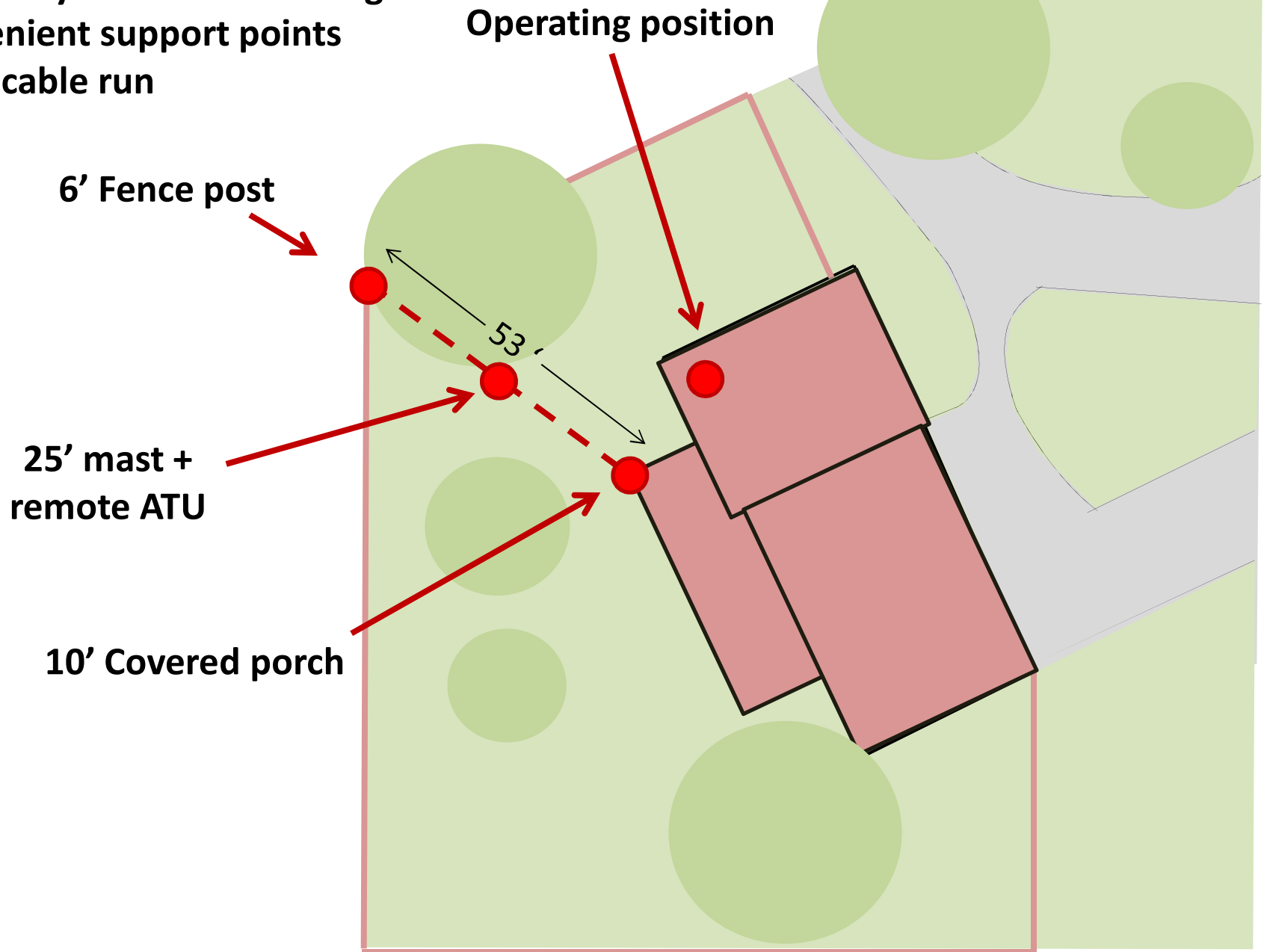
# Azimuthal projection

DM79ks



# Near-term plans

Well away from house wiring  
Convenient support points  
Short cable run

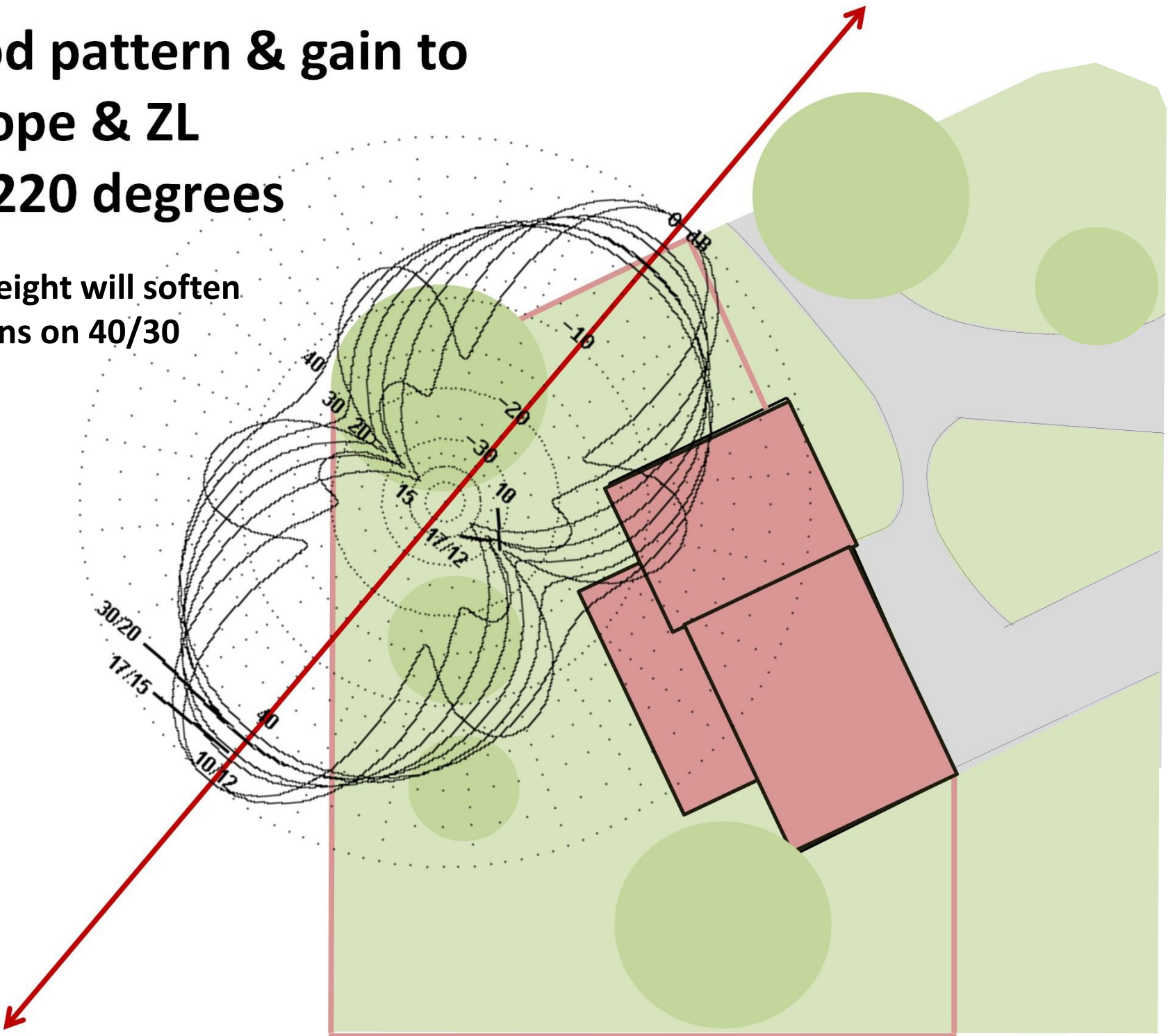


North



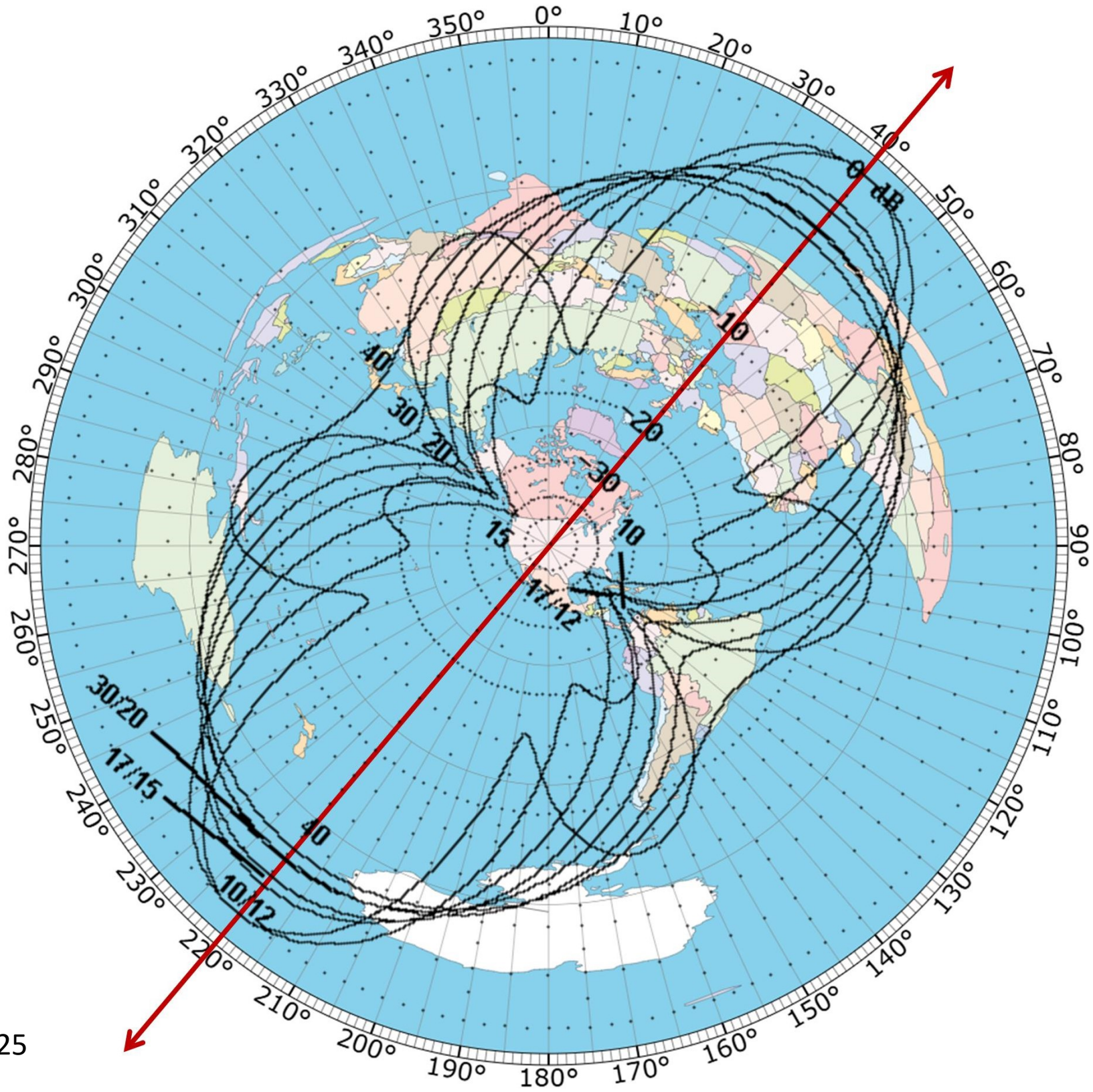
# Good pattern & gain to Europe & ZL 40/220 degrees

Low height will soften patterns on 40/30



North







# Longer-term plans: “Y-Doublet”

Steerable for 360° coverage

Common practice pre WWII?

Three legs, three-wire parallel feedline

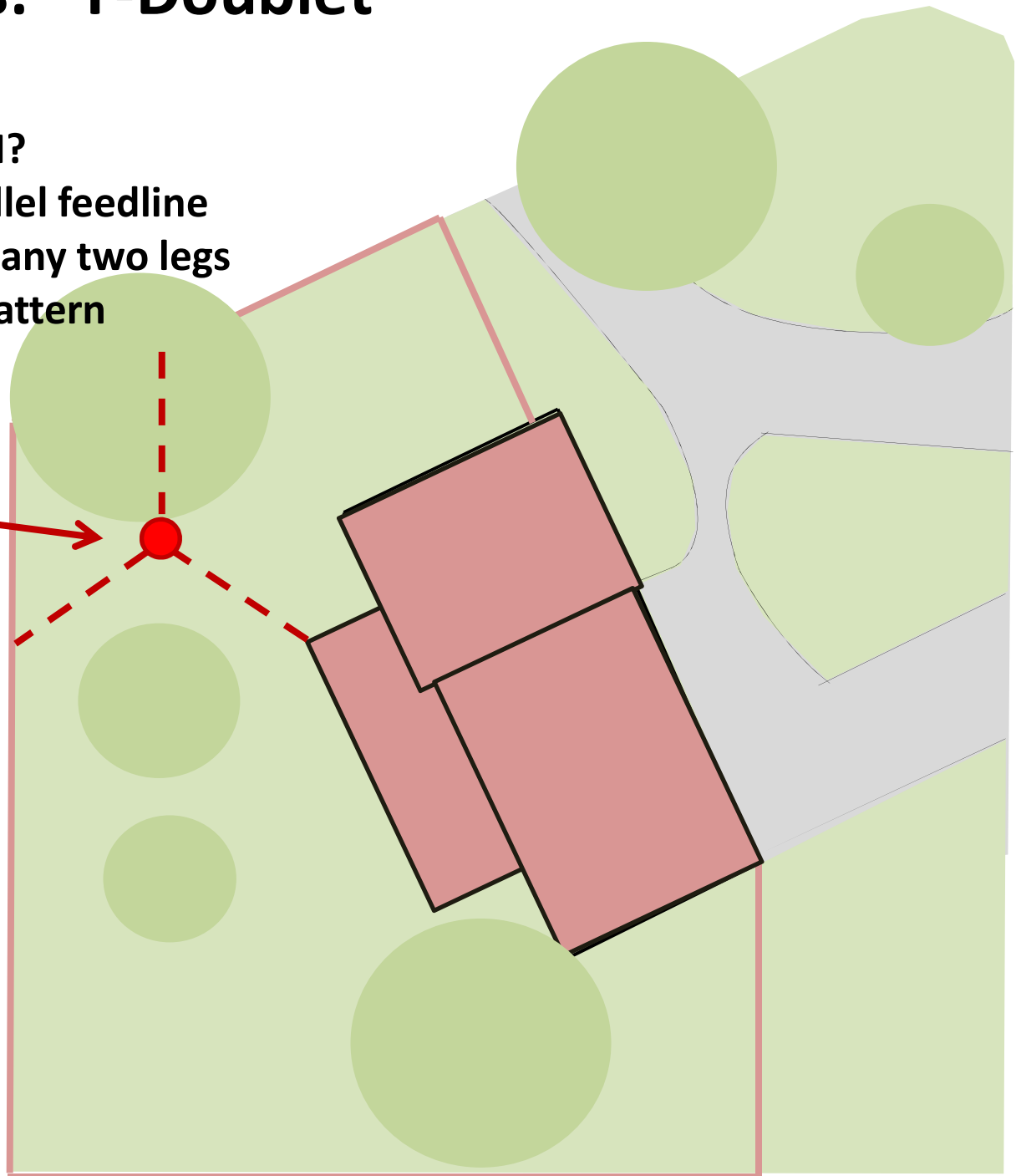
Remote switching to select any two legs

Third leg does not distort pattern

25' mast  
remote ATU  
3-way switch

Requires reasonably  
careful construction  
(fingers crossed)

North



# Optimism!

