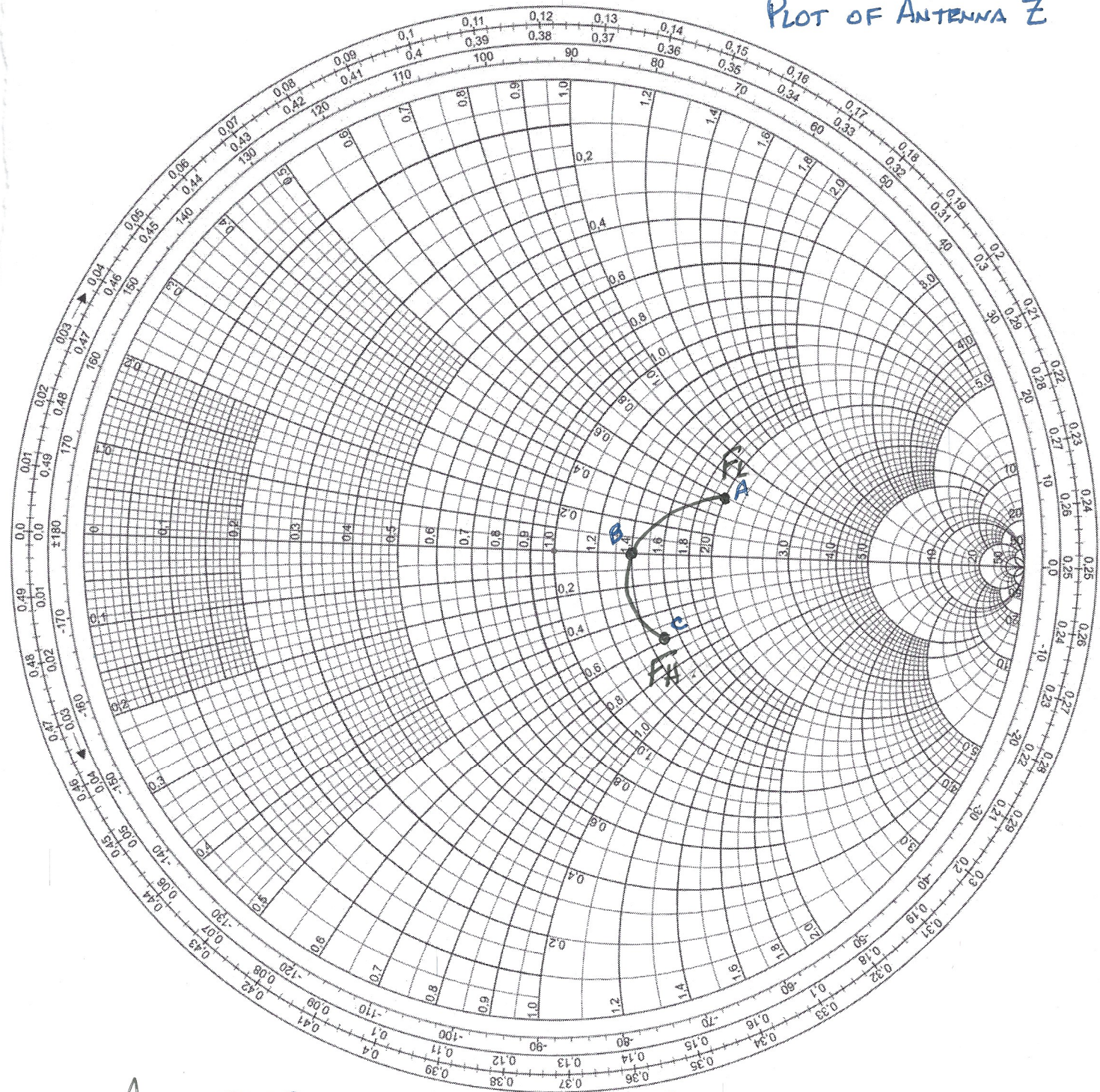


Q - WHAT HAPPENS WHEN WE ADD TRANSMISSION LINE BETWEEN THE TX & ANTENNA?

PLOT OF ANTENNA Z

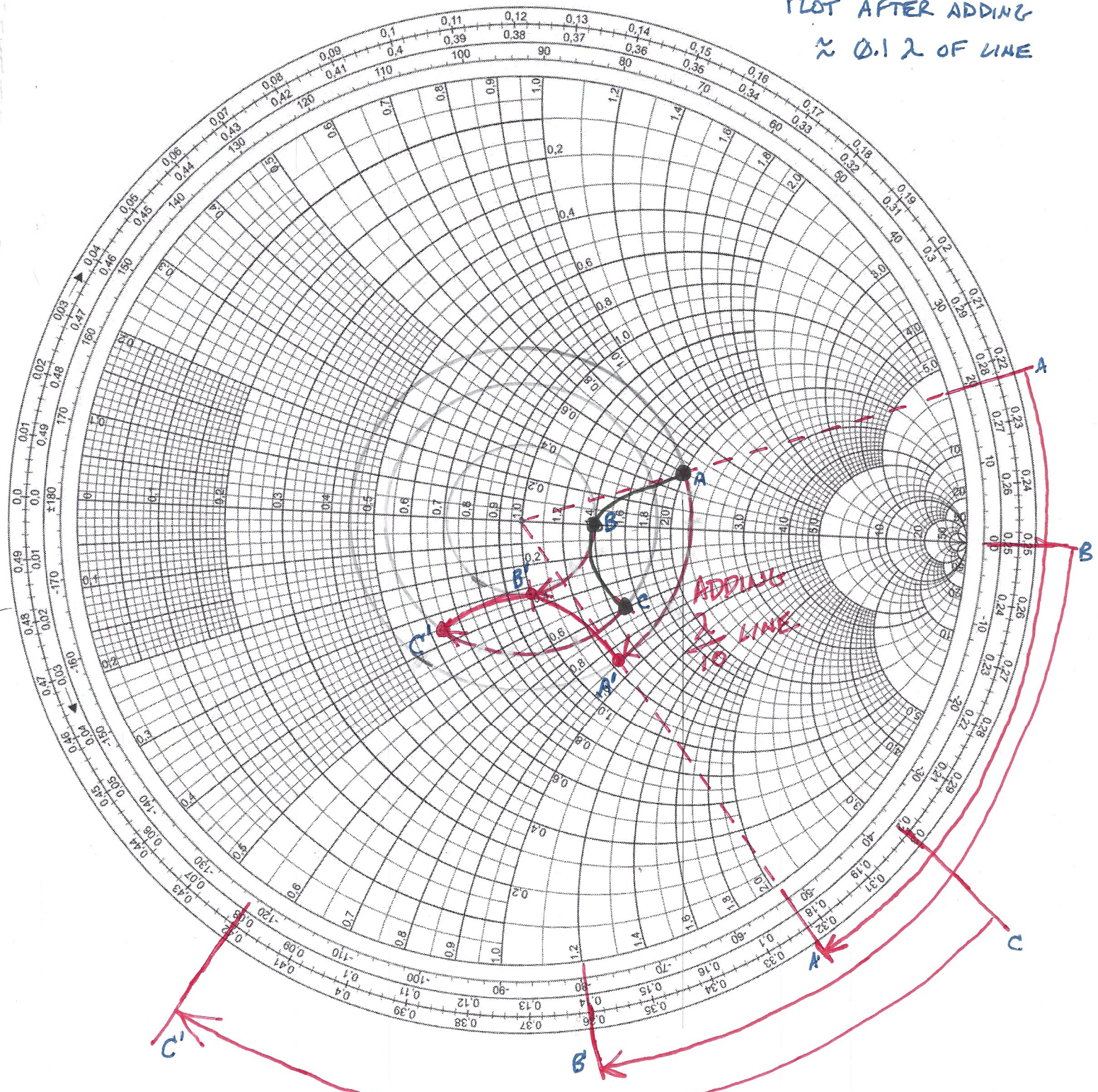


- A - SWR DOES NOT CHANGE (ASSUMING THE LINE IS NOT PART OF THE ANTENNA)
- IMPEDANCE LOOKING INTO THE LINE DOES CHANGE
- APPARENT RESONANT FREQUENCIES CAN MOVE (RESONANCE IS WHEN Z PURELY RESISTIVE, NOT ALWAYS AT LOWEST SWR)

W2AEW
②

- LOOKING INTO END OF LINE

PLOT AFTER ADDING
 ≈ 0.12 OF LINE



ASSUMES:
- LOSSLESS LINE
- LINE IS NOT PART OF THE ANTENNA