

# BEING HIGH IS BETTER

[re: Antenna Supports ]

According to K6RFT  
Summer of 2000

# How to be Higher

- ▣ Tower
- ▣ Trees
- ▣ Utility Poles

# Why Not a Pole?

- One pole is good, ... but
- Two poles would be better
- One pole stacked on top of another is best?

# Splicing Options

- Scabbing each pole and bolting them together
- Insert poles into a pipe sleeve
- **Butt the poles and use two channel iron sections to sandwich them**

# On Hand Materials

- ▣ 30 & 35' utility poles
- ▣ 1/4" guy wire
- ▣ Pole line hardware
- ▣ 8" Iron pipe

# What Tools are on Hand?

- ▣ Utility Line Truck w/ 30' boom, auger, and winch
- ▣ Peavy
- ▣ Tape measure
- ▣ Plum Bob
- ▣ Concrete mixer
- ▣ Big Hammer

# Let Some Guys Help

- Often 3 guys are used, (120 degrees)  
... but
- Four guys fit better, (90 degrees)

- **Four guys at the splice**
- **AND**
- **At the top?**



# The Pole Yard







**Hauling the Poles**



# Splice Factory



# How to Attach the Guys

- At the Top:
  - Weld brackets to a 8" pipe section
  - Slip the pipe section over the pole
- At the Splice:
  - Weld brackets to the channel

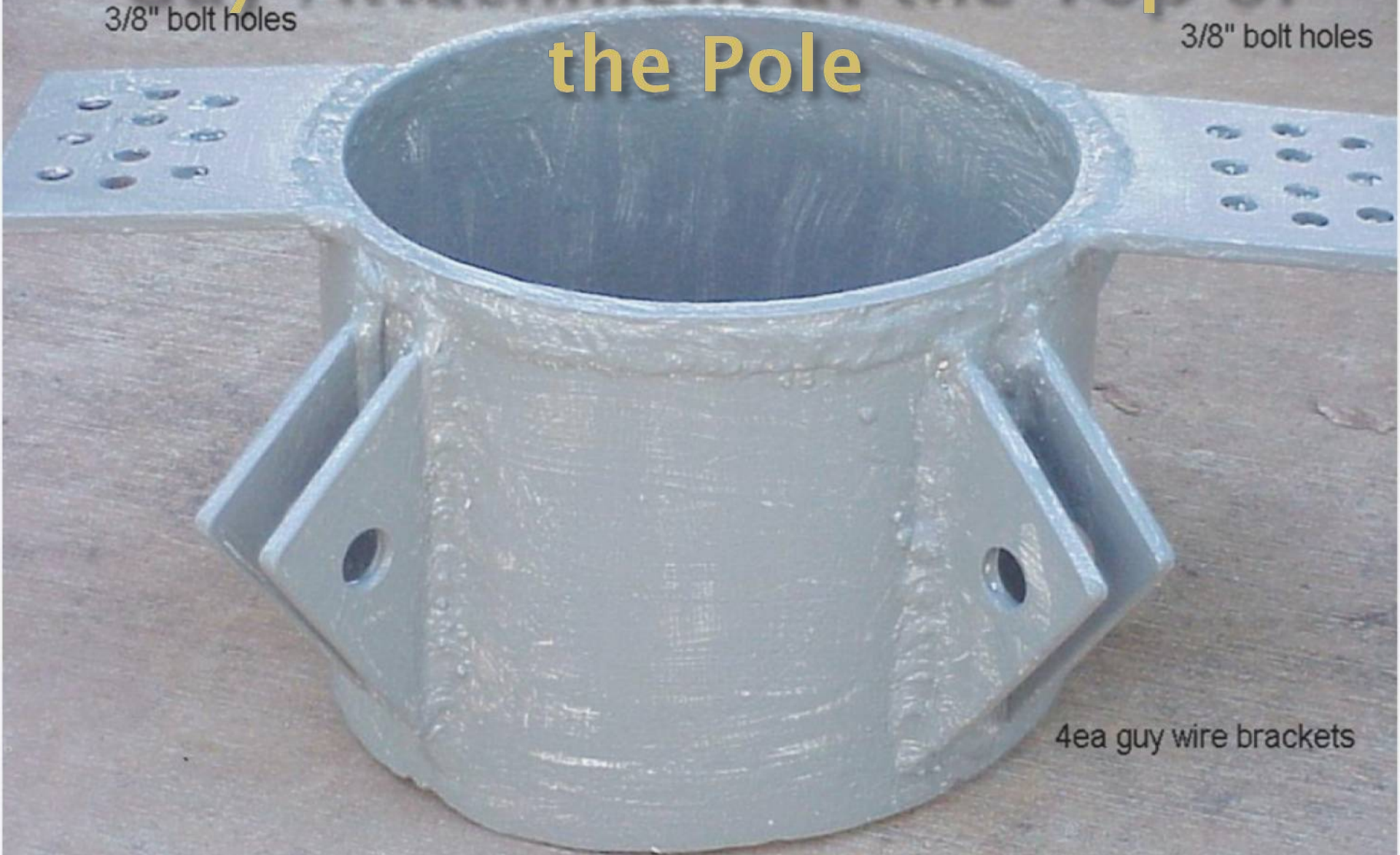


# Guy Attachment at the Top of the Pole

3/8" bolt holes

3/8" bolt holes

Top

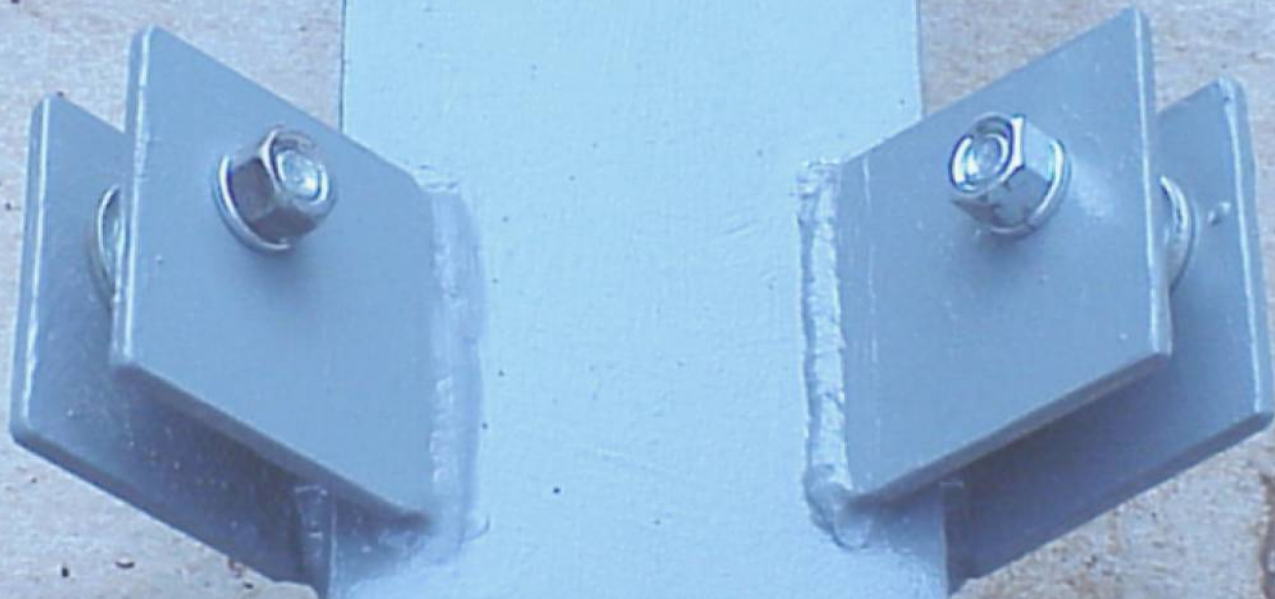


4ea guy wire brackets

8" sch 40 pipe



# Guy Wire Brackets at the Splice





# The Splice

- Poles are tapered and crooked:  
Difficult to align channel and drill holes
- Two 6" channel irons 10 ' in length
- Channel bolted with eight  $\frac{3}{4}$ " galvanized bolts



Butt Joint Splice Ready to go  
Up



Put the Pole Here!







Digging the Hole  
(9-10' deep)



**Raised with Guys  
Attached**





Vertical at Last











# Butt Splice in Service





# North Pole Top Detail





# Guy Anchors

- Rods were 6'
- Set in concrete 4' x 4' x 1'
- Concrete was 5' below ground
- Two guys were raised above the ground level using 8" pipe filled and set in concrete

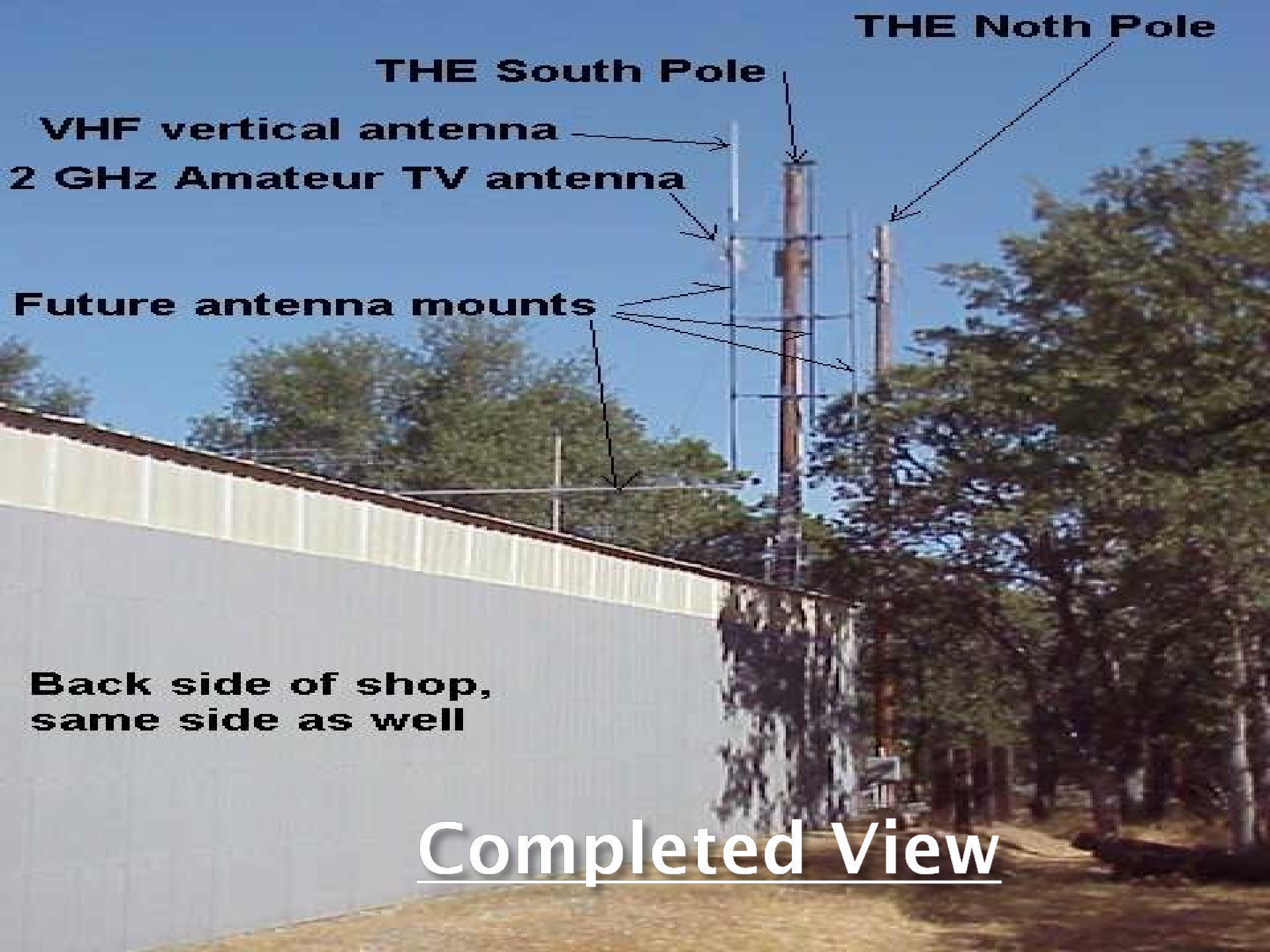
# Top Details



A photograph of a utility pole with a grey equipment box and a 2GHz ATV antenna. The equipment box is mounted on a metal bracket attached to the pole. The antenna is a wire mesh structure mounted on a separate pole. A cable connects the two. The background is a clear sky.

**Equip Box**

**2GHz ATV**



**THE Noth Pole**

**THE South Pole**

**VHF vertical antenna**

**2 GHz Amateur TV antenna**

**Future antenna mounts**

**Back side of shop,  
same side as well**

**Completed View**



An aerial photograph looking down from a high vantage point, likely the 'South Pole' mentioned in the text. The central feature is a large, white, peaked structure that resembles a tent or a temporary building, with a dark roofline. It is situated in a clearing surrounded by dense green trees. To the left of the structure, a light blue utility truck with a crane-like arm is parked on a dirt path. The overall scene is captured in a slightly grainy, vintage-style photograph.

The View Down  
from the “South Pole”



# Pole Disadvantages

- ▣ Climbing with 90 degree guys
- ▣ Need for pole steps
- ▣ Work platform need
- ▣ Challenge to mount masts

# Pole Disadvantages Cont'd

- Equipment to set poles
- Poles are crooked
- Poles are tapered
- Grounding

# The End

