## BUILDING

## A <br> 160 METER WINDOM

A Off-Center-Fed Dipole

## By

WT9Q

## What is a Windom

- Designed in 1928 by Loren Windom W8GZ
- Multi-band wire antenna
- Dipole with one leg $1 / 3$ and the other leg $2 / 3$ 's long
- Fed with ladder line
- Carolina Windom fed with coax


## Homework






## 166 feet is a long run



## Ladder Loc, Pulley, Insulators, Thimbles



## Start an Inventory







## Pencil soldering iron won't do





## Use Super 88 because Dick said soK9CAN




## UV-resistant Dacron double weave



## 10 ft Sections of 1 "Conduit





## US Tower Corp TMM-541 SS Crank-up



## Hard Hat Added



## Extension ladder readily available?



## Folded Dipole 10 Meter Contact




## A Screen Shot







## Support the weak spot




## Our Friend the Tree

 ARRL Wire Antenna Classics

## Clean Cut Broken Limbs



## The Tree Will Heal Better



## Coax Fed to Lower Level (basement)



## Put a Twist in The Ladder Line



## Attach totally biodegradable counter

 weight



Twa Antennas Got Massied

The ceremony wasn't much but the reception was great.

## Center CW Band SWR

| Band | Windom SWR | Folded SWR |
| :--- | ---: | ---: |
| 160 Meters | 2.3 | 6 |
| 80 Meters | 2.5 | 1.5 |
| 40 Meters | 6.1 | 2.5 |
| 30 Meters | 3.1 | 1.4 |
| 20 Meters | 2.5 | 1.2 |
| 17 Meters | 6.1 | 1.5 |
| 15 Meters | 1.2 | 2 |
| 12 Meters | 2.1 | 1.2 |
| 10 Meters | 6 | 1.3 |

## Signal Reports

- Lot of 59 and 599 reports
- Comments on160, 20, and15 Meters
- Good signal into X. Really good signal
- Great signal tonight
- Your 59. Very strong signal today
- Few 59 plus reports
- Sometimes Answered on first call in pile ups


## The Wireman Receipt-Davis wire



## Menards Receipt



## Even Better If:

- Solve RFI Issue
- Stronger Tee Bar at Tower Top
- Conduit is already bent
- Longer runs of Dacron rope
- Higher
- Higher at center is possible
- Remote tuner at ladder line
- Yaesu FT-920 built-in auto tuner doesn't meet todays standards
- Fussy (rain, dew)
- Slow
- Limited memory

