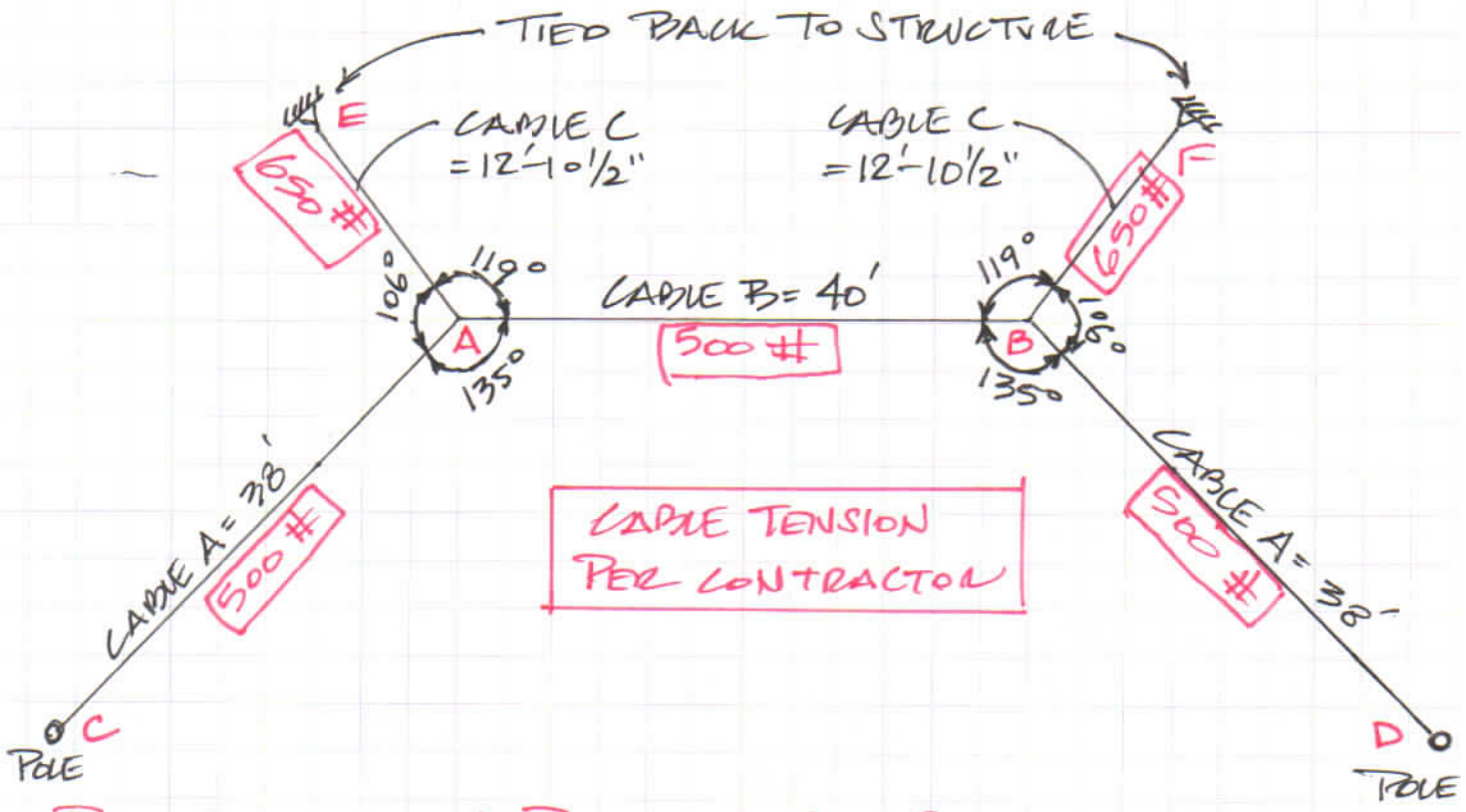
Project No: _____

Designed By: _____

Date: _____ Scale: _____

Sheet No: _____ Of: _____



- PER CONTRACTOR ▫ POINTS A, B, C & D WILL BE BROUGHT TO THE SAME ELEVATION
  ▫ MAX SAG = 3"

▫ ~~IF CABLE A AND B CAN "SLIP" @ POINT "A" AND "B" THE HORIZONTAL TENSION IS THE SAME IN THE CABLES.~~ (X) (X)

▫ 40' SPAN: 3" of SAG $y_c = \frac{WS^2}{8t}$ $0.25' = \frac{(50^{PLF})(40')^2}{8t}$ $t = 40000\#$ vs 500#

GIVEN: IGNORE CABLE WT, WIND, ICE, ETC.
NET WEIGHT = 2 PSF
NET HEIGHT = 25'
$W = 50^{PLF}$

IF $t = 500\#$ $y_c = \frac{(50^{PLF})(40')^2}{8(500\#)}$ = 20' OF SAG FOR A 25' TALL NET ?

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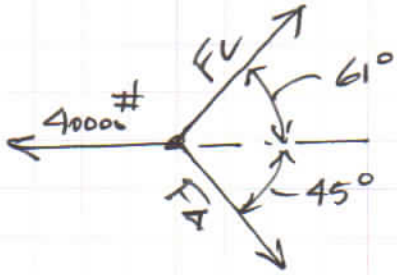
CABLES A & B CANNOT HAVE SAME FORCE (TENSION) DUE TO ANGLE — USE CLEVIS

POINT B

HORIZONTAL FORCE



SIMULT. EQU.

ΣF_x: $F_A(\cos 45) + F_C(\cos 61) - 40000 = 0$

ΣF_y: $-F_A(\sin 45) + F_C(\sin 61) = 0$

$+0.485$

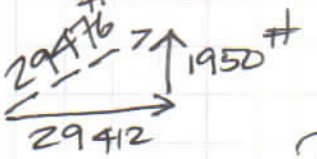
$0.707\,F_A \quad F_C = 40000$

$-0.707\,F_A + 0.875\,F_C = 0$

$1.360\,F_C = 40000^{\#}$

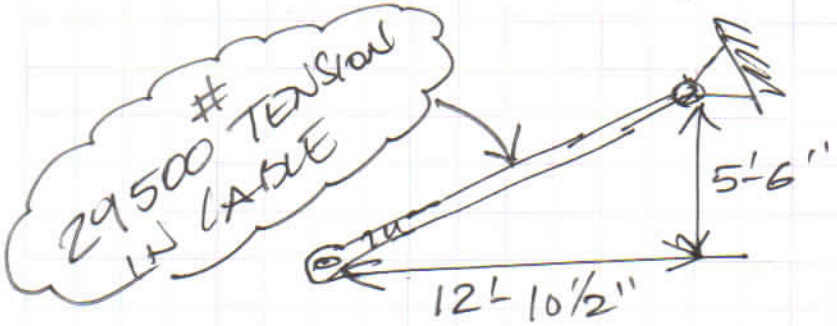
F_C HORIZ = $29412^{\#}$

VERT FORCE = WT. OF NET = $50^{PLF}\left(\frac{40'}{2}\right) + \left(\frac{38'}{2}\right) = 1950^{\#}$



F_C VERT = $1950^{\#}$

RESULTANT = $\sqrt{(29412)^2 + (1950^2)} = 29476^{\#}$



29,500# TENSION VS 650# PER CONTRACTOR