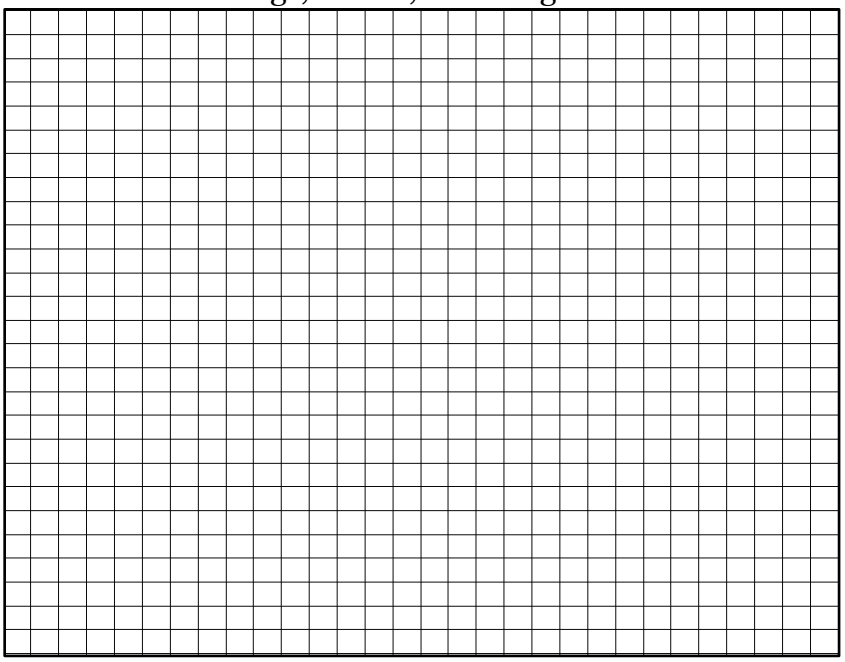
Footing Size

Deck Layout

Locate footings, beams, overhangs & dimension



Loading

Live load	=	40	PSF
Dead load	=	10	PSF
Other	=	_____	PSF
Total load	=	_____	PSF

Soil Bearing = _____PSF*

*soils greater than 2,000 PSF must be verified

PSF=pounds per square foot

Tributary Area

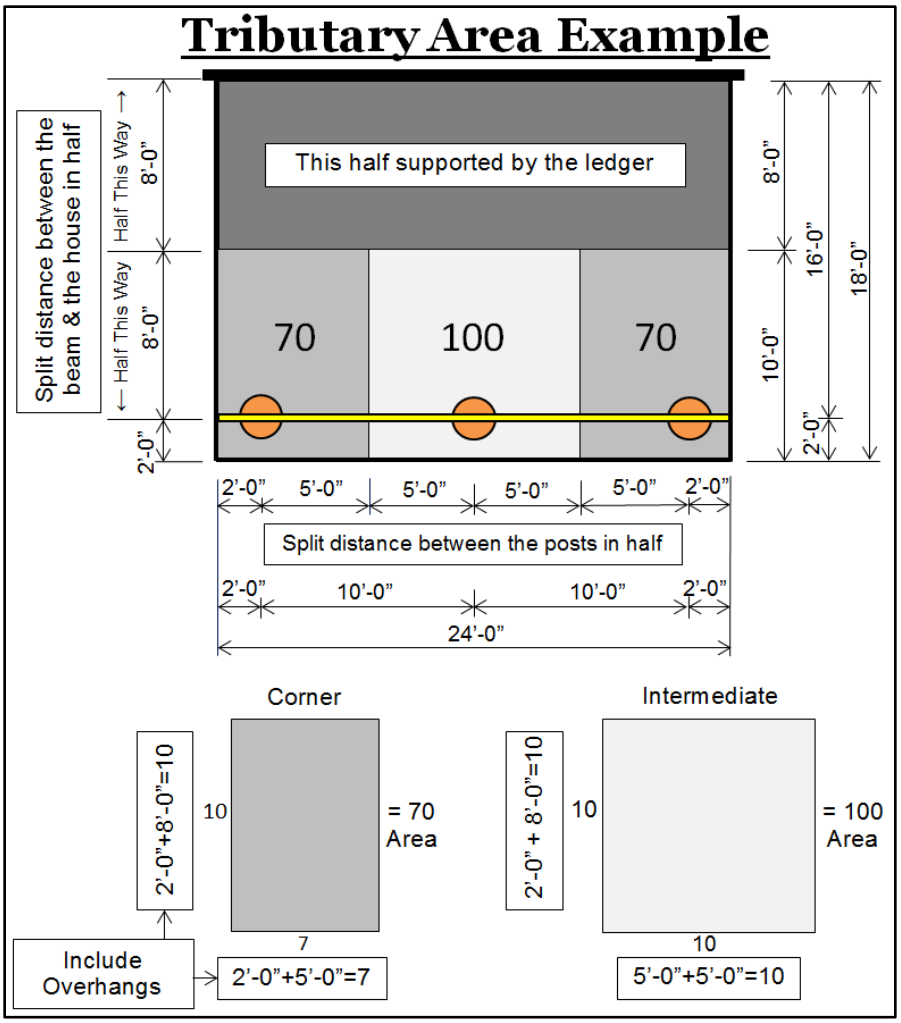
(See Example on Right)

Corner Footing

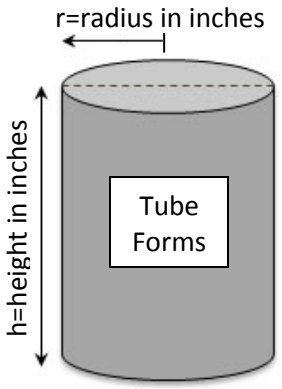
_____x_____=_____

Intermediate Footing

_____x_____=_____



Tributary load



Tributary area x total load= tributary load

Use this formula for tube forms, I.e. Sonotubes®

Tributary area x total load + $(150\left(\frac{\pi r^2 h}{1728}\right))$ = tributary load

Corner footing

_____x_____ $(+150\left(\frac{\pi\_\_\_^2\_\_\_}{1728}\right))$ =_____

Intermediate footing

_____x_____ $(+150\left(\frac{\pi\_\_\_^2\_\_\_}{1728}\right))$ =_____

Footing Area

In² =inches squared

Tributary load ÷ Soil bearing=Load PSF × 144(change to square inches) = Area in In²

Corner footing

_____÷_____=_____× 144 =_____Area in In²

Intermediate footing

_____÷_____=_____× 144 =_____Area in In²

Round footings

π= 3.1416

$2\times\sqrt{area \div \pi}$ = diameter of footing
(round to nearest inch)

Corner

$2x\sqrt{\_\_\_\_\_ \div \pi}$ =_____ inches

Intermediate

$2x\sqrt{\_\_\_\_\_ \div \pi}$ =_____ inches

Square footings

$\sqrt{area}$ = length of each side
(round to nearest inch)

Corner

$\sqrt{\_\_\_\_\_}$ =_____ inches

Intermediate

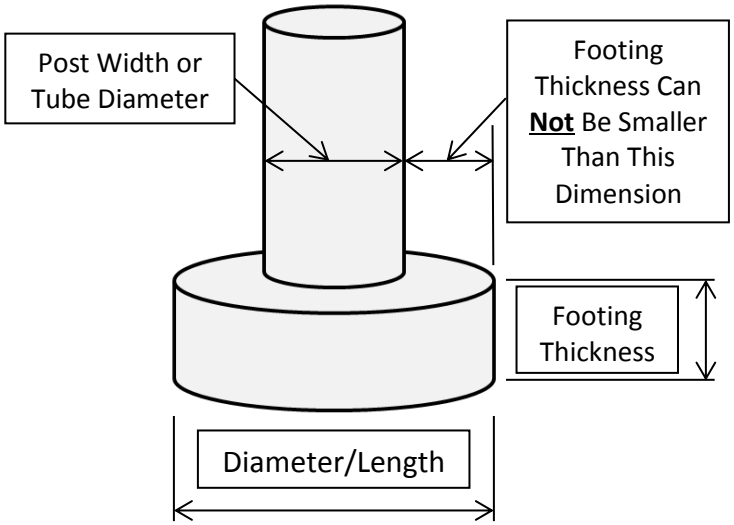
$\sqrt{\_\_\_\_\_}$ =_____ inches

Footing thickness[2]

(Diameter or length - post width)÷2= thickness
(in inches)

(_____-_____)÷2=_____inches

Note: Footings may not be less than 8" thick



[2]Footing thickness formula from American Wood Council.
Prescriptive Residential Wood Deck Construction Guide, 2015.