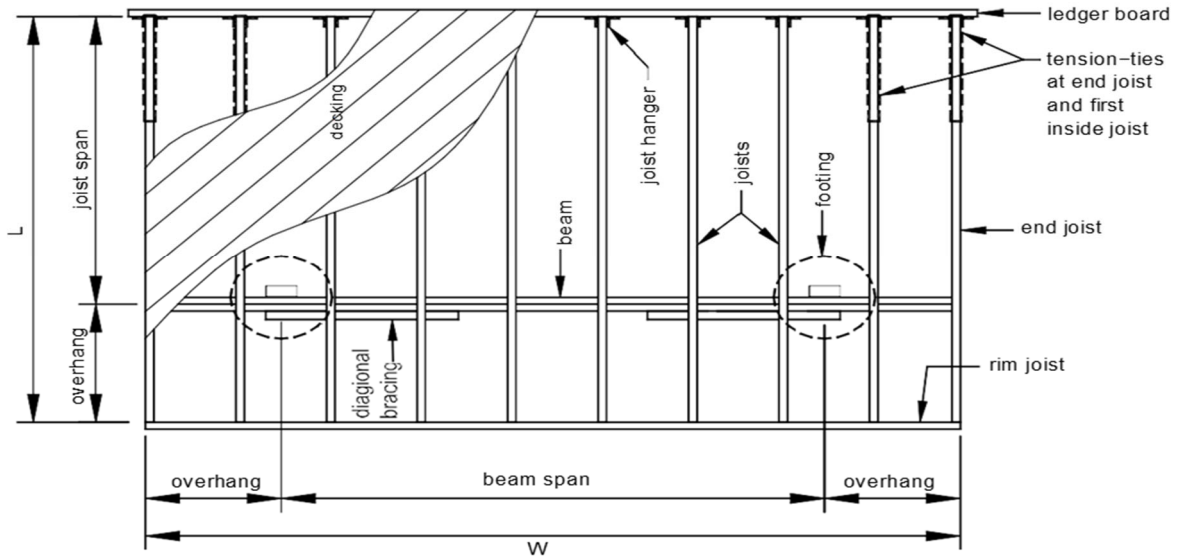
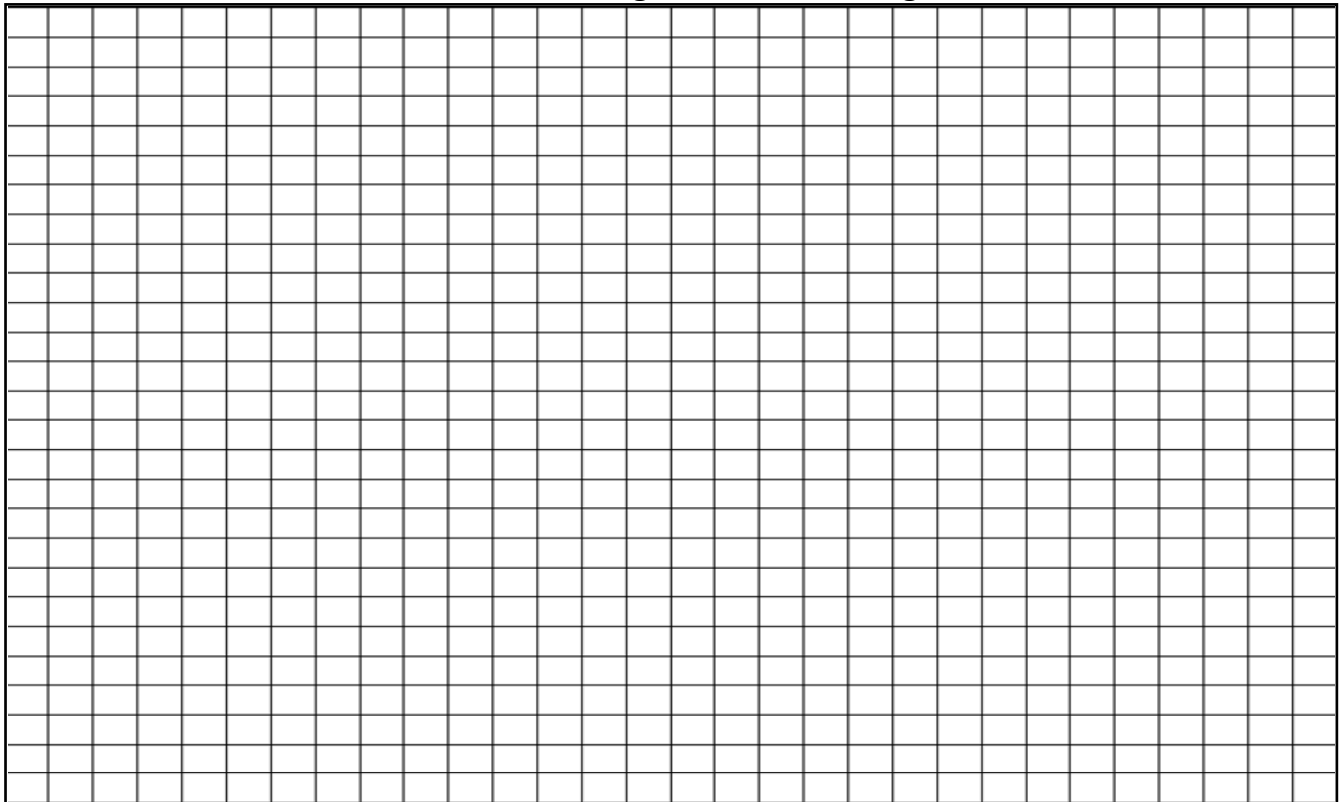




TYPICAL DECK FRAMING PLAN



Draw in your Deck Layout
Locate footings, beams, overhangs





What is your Deck size?

Section 1 Length= _____ ft. - _____ in. Width= _____ ft. - _____ in.

Section 2 Length= _____ ft. - _____ in. Width= _____ ft. - _____ in.

Section 3 Length= _____ ft. - _____ in. Width= _____ ft. - _____ in.

List your building materials:

Deck boards: 2x4 2x6 five-quarter board wood-plastic composite (per ASTM D 7032)
 Other decking, evaluation report number: _____

Ledger board size: 2x8 2x10 2x12 Not applicable (free-standing deck)

Floor Joists: size: 2x6 2x8 2x10 2x12

Floor Joist spacing: 12 in. 16 in. 24 in. on center

Floor joist span dimension: _____ ft. - _____ in.

Floor Joist overhang: Yes, overhang dimension: _____ ft. - _____ in. No

Rim joist size: 2x6 2x8 2x10 2x12

Beam span: _____ ft. - _____ in. _____ ft. - _____ in. (distance between post)

Beam(s): number of plies: 2 3 size: 2x6 2x8 2x10 2x12

Beam overhang: Yes, overhang dimension: _____ ft. - _____ in. No

Posts size above grade: 4x4 4x6 6x6 other _____

Post height above grade: _____ ft. - _____ in. (distance from the ground up)

Sonotube/Pier depth below grade: _____ in. (minimum is 40")

Sonotube/Pier size diameter around: _____ in.

Concrete Corner Footings: size: _____ in. square or round and footing thickness: _____ in. (minimum is 8")

Concrete Intermediate Footings: size: _____ in. square or round and footing thickness: _____ in. (minimum is 8")

Other types of footing: Dimond pier size or other _____

Type of fasteners used: Through bolt Lag screw Expansion anchor Adhesive anchor Wood screw

Lateral support used: Tension-tie (not permitted for free-standing deck) Diagonal bracing, size: 2x_____

Go to [REM Inspecting's website](#) to view Deck code standards and prescriptive tables for footings; beams; joints, etc.

As an alternate you can use the below formulas to calculate your footing sizes

If you have any questions or need help, please contact the inspector to review the information together.

Loading

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

Soil Bearing = _____ PSF*
 *Minimum soils bearing 2,000 PSF

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

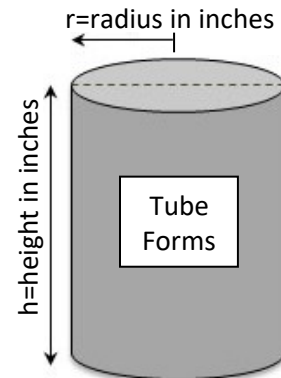
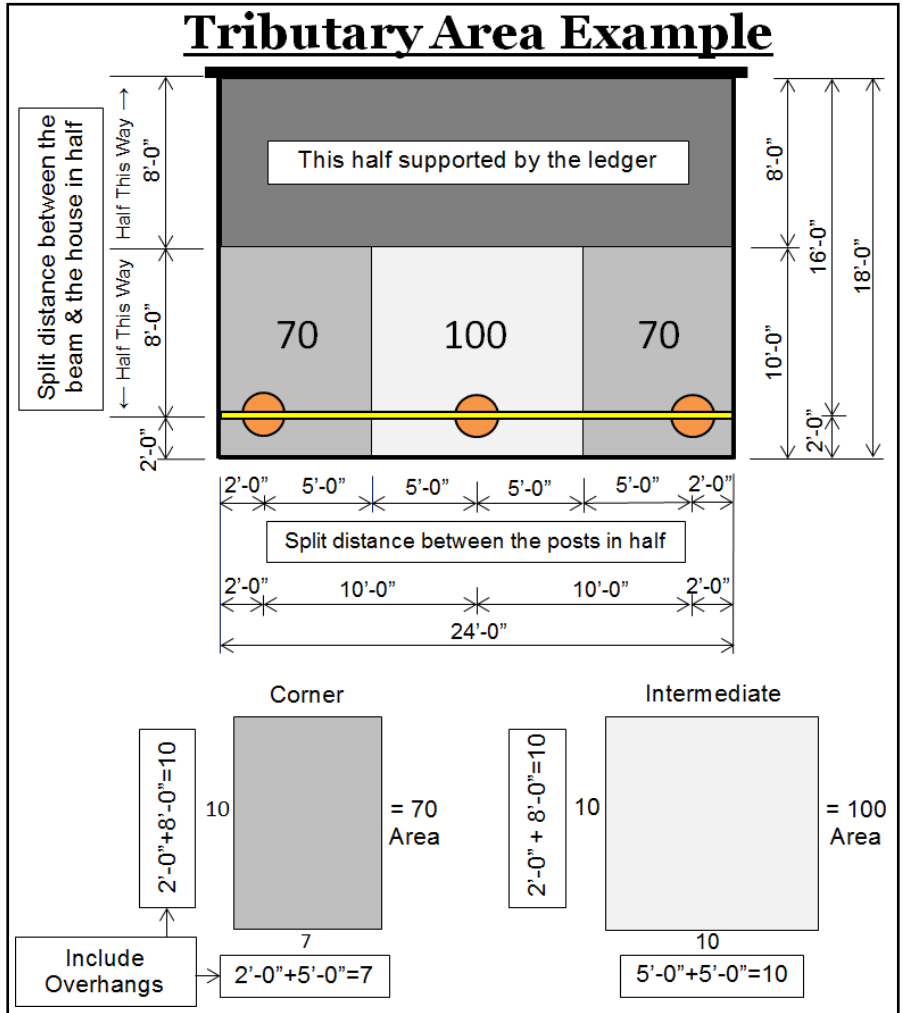
Use this formula for tube forms, I.e. Sonotubes®
 Tributary area x total load + $(150 \left(\frac{\pi r^2 h}{1728} \right))$ = tributary load

Corner footing

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

Intermediate footing

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





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

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

Corner

$2 \times \sqrt{\text{_____} \div \pi}$ = _____ inches

Intermediate

$2 \times \sqrt{\text{_____} \div \pi}$ = _____ inches

Square footings

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

Corner

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

Intermediate

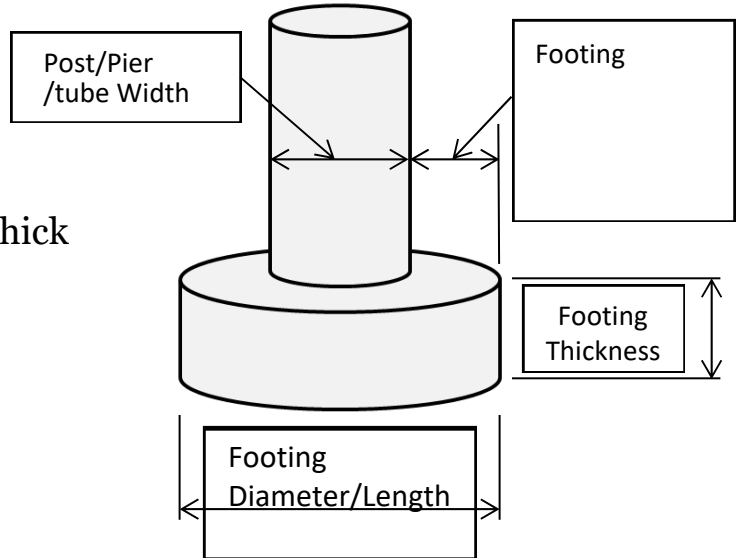
$\sqrt{\text{_____}}$ = _____ inches

Footing thickness²

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

(_____ - _____) ÷ 2 = _____ inches

Note: Footings may not be less than 8” thick



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