APPROVED RE-BAR PLACEMENT IN FOOTINGS

Section R403.1.3.5 2018 IRC, ASTM A615, 706, 996 & 2017 ACI Standards

The following details are the approved means for supporting steel reinforcements (re-bar) in footings including interior and exterior piers. These details are designed to maintain the re-bar position in the concrete during pour and setup, and are the Yavapai County approved methods.

1. Plastic chairs may be placed under the re-bar, and the horizontals are to be separated with a re-bar spacer at a maximum eight (8’) foot interval. (Detail #A)

2. The re-bar may be hung with wires from a wood or steel post lying on the ground above the footing. The horizontal re-bar is to be separated with re-bar spacers at a maximum of eight (8’) foot intervals. (Detail #B)

3. Approved pre-cast masonry dobbies may be used under the re-bar at spacing not to exceed eight (8’) foot intervals. (Detail #C)

4. Approved manufactured wire chairs may be used under the re-bar at a spacing not to exceed eight (8’) foot intervals. (Detail #D)

In all the above details, the re-bar must be placed a minimum of three (3”) inches from cover and in the instance of deep footings [greater than twelve (12”) inches], or has the two (2) layers of re-bar, they must be a minimum of six (6”) inches apart and maintain the minimum three (3”) inches from cover.

All vertical steel must be tied in place with the hook below the horizontal steel at the time of footing inspection. The hook on the vertical re-bar must be a minimum of six (6”) inches and/or 12 times the bar diameter.

If any deviation from these methods is proposed, it must be approved by the Building Safety Unit prior to the pouring of concrete. The building inspector has the authority to approve or disapprove any alternative methods based on the general rule “that the method prevents the steel from displacing during the pour and setup.”
**Detail A**
Plastic chairs may be placed under the rebar and the horizontals are to be separated with a rebar spacer at a maximum eight (8’) foot intervals.

**Detail B**
The rebar may be hung with wires from a wood or steel post lying on the ground above the footing. The horizontal rebar is to be separated with a rebar spacer at a maximum eight (8’) foot intervals.

**Detail C**
Approved pre-cast masonry dobbies may be used under the rebar at a spacing not to exceed eight (8’) foot intervals.

**Detail D**
Approved manufactured wire chairs may be used under the rebar at a spacing not to exceed eight (8’) intervals.

**General Notes**
In all the above details, the rebar must be placed a minimum of three (3”) inches from bottom and sides of footings and in the instance of deep footings (greater than twelve (12”) inches), or having two layers of rebar, they must be a minimum of six (6”) inches apart and maintain the minimum three (3”) inches from bottom and sides of footings.

Vertical steel must be tied to the horizontal at the spacing detailed on the plans with a 12 bar diameter bend at the bottom (hook).

If any deviation from these methods is proposed, it must be approved by the Building Safety Unit prior to the pouring of concrete.

Where rock outcroppings are impacting the location of the footings for a structure, it shall be reviewed on a case-by-case basis to determine if the rock outcroppings are of sufficient size and stability to be incorporated as part of the foundation of the building. The building official may require a report from a licensed Arizona structural engineer when a site inspection cannot confirm that the rock outcroppings appear to be stable.