



## Chain Link Fence Installation Tips



Have you had all underground utilities located?  
DO NOT dig until this has been done.



This is a free service for all home owners.

Have you identified your property lines? This is very important as you may be required to relocate the fence at your expense if the fence is installed on neighboring property.

# Chain Link Fence Installation - Tool Required

## Tools Needed:

Post Hole Digger

Rock Bar

String Line

Wheelbarrow, Shovel and Hose to  
mix and transport concrete

Tape Measure

Level

Hacksaw or Pipe Cutter

Fence Pliers

The following installation recommendations assume all tools are in good working order and the person using them are well versed in the safe operation of these tools. Northwest Fence assumes no liability for property damage, injury, or death.

## Chain Link Installation - Locate and Set Terminal Posts

First determine the location of end, corner, and gate post (which are referred to as terminal posts).

Distance between gate posts is determined by adding the actual width of the gate to an allowance for hinges and latches.

Now Dig the hole as shown below in figure 1. (To determine depth of hole see figure 2 - Measurement C.)

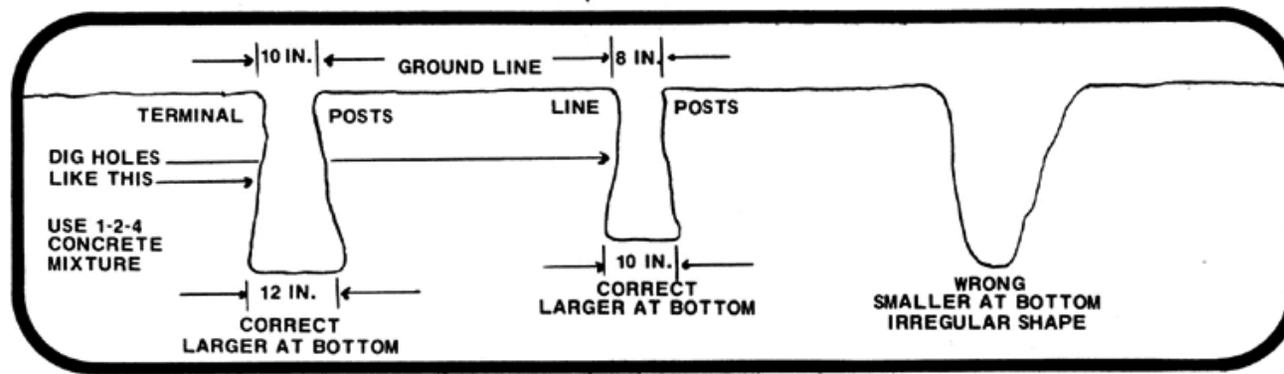


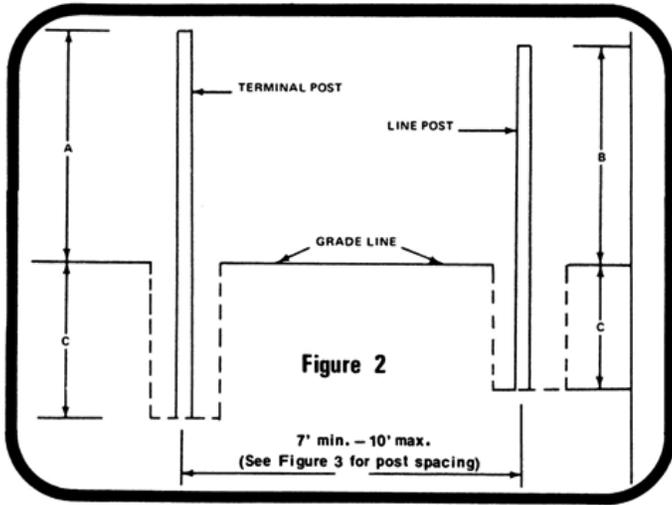
Figure 1

Next, mark all posts with chalk for the correct height of fence you are installing (See Figure 2). Terminal posts should be set 2" higher than the height of the fabric and the line posts 2" lower than the fabric height.

Set the terminal posts in concrete using a concrete mix as follow: 1 part cement, 2 parts sand, and 4 parts gravel. Mix a fairly heavy mixture as too much water weakens concrete and may cause cracking. use a level to set post plumb.

# Chain Link Installation - Locate and Set Line Post

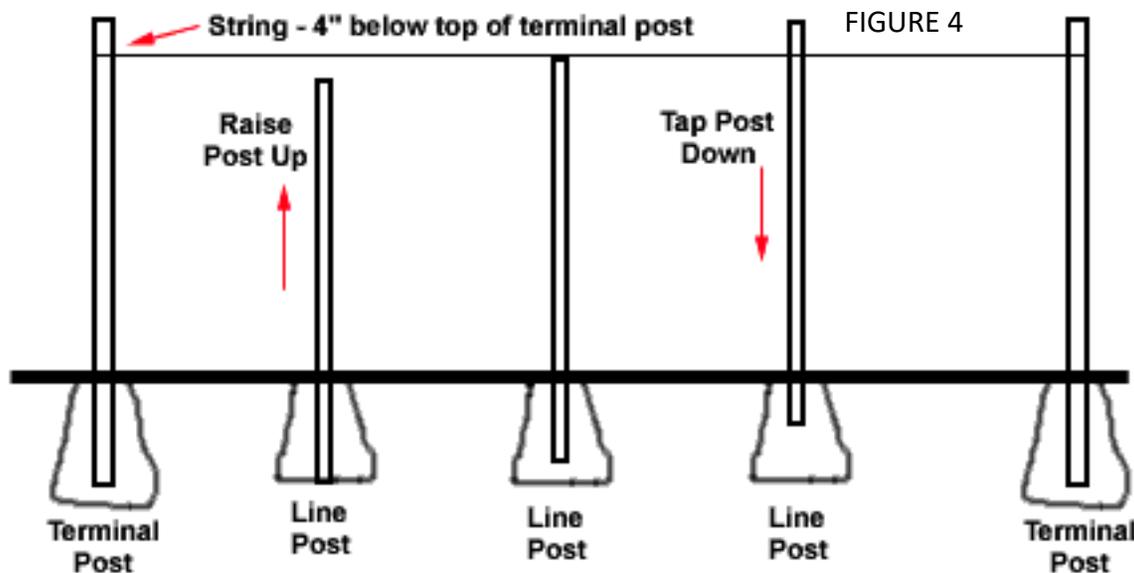
Mark the grade line on all line posts measuring from the top down as shown in figure 2. Then measure the distance between terminal post and check line post spacing chart (Figure 3) for exact distance to allow between line post.



**LINE POST SPACING CHART** FIGURE 3

Space	Set Post Apart	Space	Set Post Apart	Space	Set Post Apart	Space	Set Post Apart
30 ft.	10 ft. 0 in.	57 ft.	9 ft. 6 in.	82 ft.	9 ft. 1 in.	109 ft.	9 ft. 10 in.
31 ft.	7 ft. 9 in.	58 ft.	9 ft. 8 in.	83 ft.	9 ft. 3 in.	110 ft.	10 ft. 0 in.
32 ft.	8 ft. 0 in.	59 ft.	9 ft. 10 in.	84 ft.	9 ft. 4 in.	111 ft.	9 ft. 3 in.
33 ft.	8 ft. 3 in.	60 ft.	10 ft. 0 in.	85 ft.	9 ft. 6 in.	112 ft.	9 ft. 4 in.
34 ft.	8 ft. 6 in.	61 ft.	8 ft. 8 in.	86 ft.	9 ft. 7 in.	113 ft.	9 ft. 5 in.
35 ft.	8 ft. 9 in.	62 ft.	8 ft. 10 in.	87 ft.	9 ft. 8 in.	114 ft.	9 ft. 6 in.
36 ft.	9 ft. 0 in.	63 ft.	9 ft. 0 in.	88 ft.	9 ft. 9 in.	115 ft.	9 ft. 7 in.
37 ft.	9 ft. 3 in.	64 ft.	9 ft. 0 in.	89 ft.	9 ft. 10 in.	116 ft.	9 ft. 8 in.
38 ft.	9 ft. 6 in.	65 ft.	9 ft. 3 in.	91 ft.	9 ft. 2 in.	117 ft.	9 ft. 9 in.
40 ft.	10 ft. 0 in.	61 ft.	8 ft. 8 in.	92 ft.	9 ft. 2 in.	118 ft.	9 ft. 10 in.
41 ft.	8 ft. 2 in.	66 ft.	9 ft. 5 in.	93 ft.	9 ft. 3 in.	119 ft.	9 ft. 10 in.
42 ft.	8 ft. 5 in.	67 ft.	9 ft. 7 in.	94 ft.	9 ft. 5 in.	120 ft.	10 ft. 0 in.
43 ft.	8 ft. 6 in.	68 ft.	9 ft. 8 in.	95 ft.	9 ft. 6 in.	121 ft.	9 ft. 3 in.
44 ft.	8 ft. 9 in.	69 ft.	9 ft. 10 in.	96 ft.	9 ft. 7 in.	122 ft.	9 ft. 4 in.
45 ft.	9 ft. 0 in.	70 ft.	10 ft. 0 in.	97 ft.	9 ft. 7 in.	123 ft.	9 ft. 5 in.
46 ft.	9 ft. 2 in.	71 ft.	8 ft. 9 in.	98 ft.	9 ft. 8 in.	124 ft.	9 ft. 6 in.
47 ft.	9 ft. 5 in.	72 ft.	9 ft. 0 in.	99 ft.	9 ft. 9 in.	125 ft.	9 ft. 7 in.
48 ft.	9 ft. 7 in.	73 ft.	9 ft. 2 in.	100 ft.	10 ft. 0 in.	126 ft.	9 ft. 8 in.
49 ft.	9 ft. 9 in.	74 ft.	9 ft. 3 in.	101 ft.	9 ft. 2 in.	127 ft.	9 ft. 9 in.
50 ft.	10 ft. 0 in.	75 ft.	9 ft. 4 in.	102 ft.	9 ft. 3 in.	128 ft.	9 ft. 10 in.
51 ft.	8 ft. 6 in.	76 ft.	9 ft. 6 in.	103 ft.	9 ft. 4 in.	129 ft.	9 ft. 10 in.
52 ft.	8 ft. 8 in.	77 ft.	9 ft. 7 in.	104 ft.	9 ft. 5 in.		
53 ft.	8 ft. 10 in.	78 ft.	9 ft. 9 in.	105 ft.	9 ft. 6 in.		
54 ft.	9 ft. 0 in.	79 ft.	9 ft. 10 in.	106 ft.	9 ft. 7 in.		
55 ft.	8 ft. 2 in.	80 ft.	10 ft. 0 in.	107 ft.	9 ft. 8 in.		
56 ft.	9 ft. 4 in.	81 ft.	9 ft. 0 in.	108 ft.	9 ft. 9 in.		

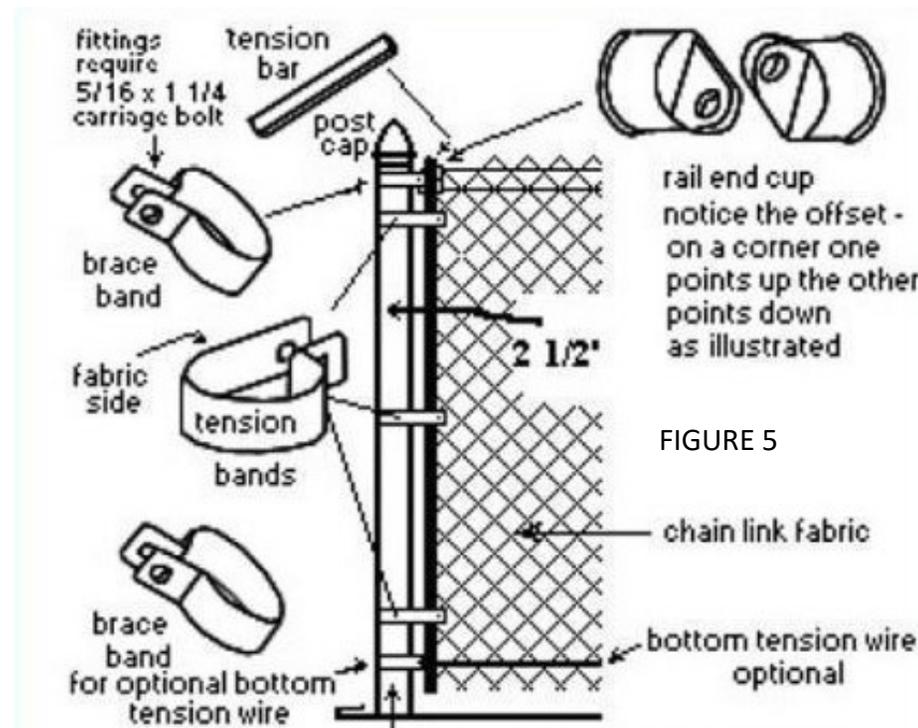
Next, stretch a masons line from outside of terminal posts to outside of terminal posts (be sure the concrete has set up sufficiently so as not to lose plumb). The line post holes should be lined up so that when they are set in the center of their holes, their centers will line up with the terminal post centers.



Next, Stretch your mason line taut four inches below terminal post tops and use as a guide to align height of line posts (see figure 4). If necessary to adjust height of any post either up or down, simply raise or lower post as illustrated before concrete sets up. Use level to keep plumb while adjusting post height.

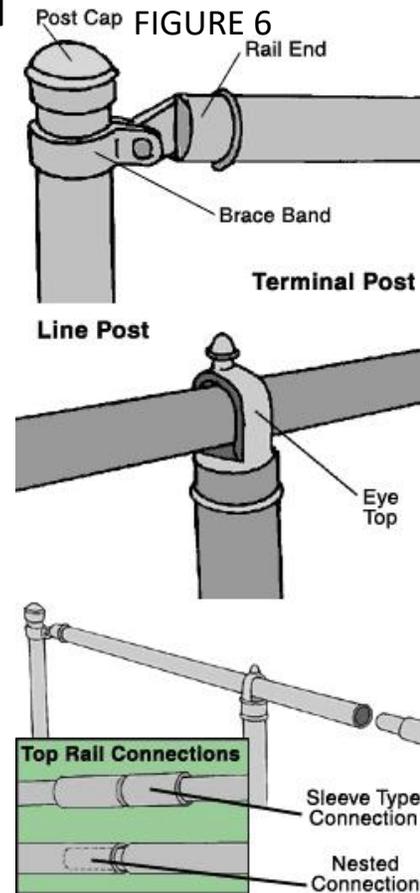
## Chain Link Installation - Apply Fittings to Terminal Posts

Check materials list and fittings identification chart. After the posts have been installed and concrete allowed to set, slip tension and brace bands on terminal post. (See figure 5.) The tension bands should be spaced approximately 15" apart. Do not spread or distort bands. All bolt heads for bands are on the outside of the fence and the threaded ends are on the inside. Then apply all terminal post caps.



## Chain Link Installation - Apply Top Rail

Next, attach eye tops. (See Figure 6.) They are set with the top rail hole offset toward the outside of the fence making flush the outside face of the top rail through the eye tops. Join the top rail with swedged end or sleeve where required. End of the top rail fits into rail end fittings on the terminal posts.



## Chain Link Installation - Hang Fabric

After assembling the framework, unroll the fabric on the ground along the fence line starting at a terminal post. Then slide tension bar thru the last line in your fabric and attach this combination to the terminal post using tension band and bolts provided. (See figure 7.) If more or less fabric is needed to span the opening, an additional amount can be connected or removed. The fabric should be on the outside face of all posts and loosely attached to the top rail by tie wire.

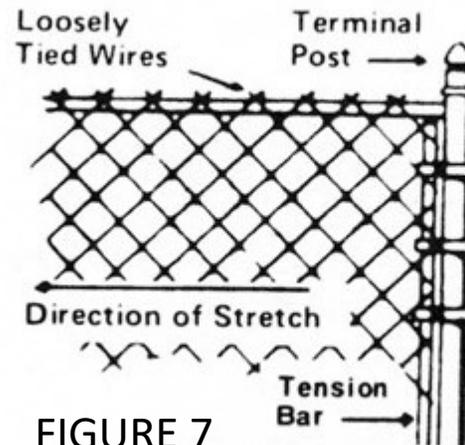
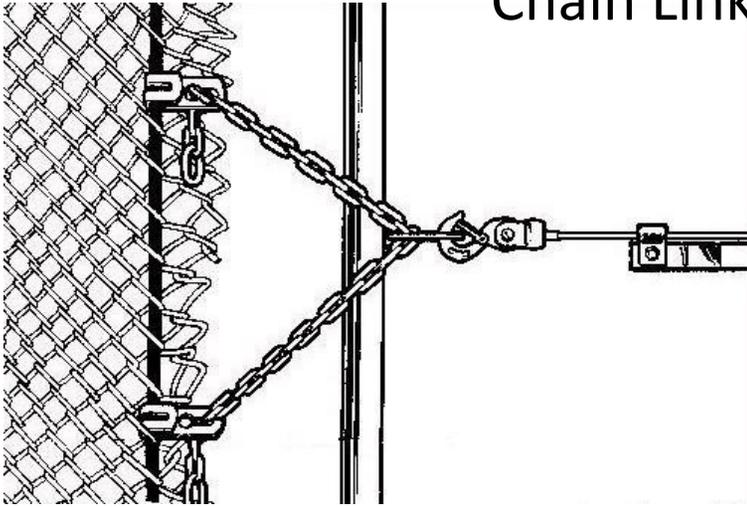


FIGURE 7

## Chain Link Installation - Stretch Fabric



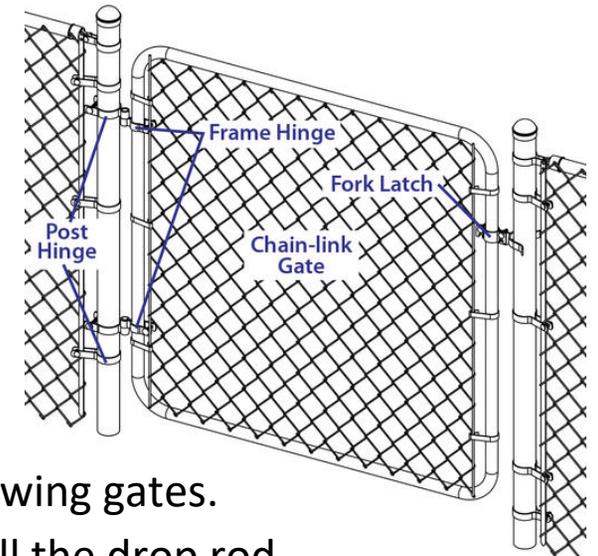
Fabric should be stretched from the terminal post already attached to the opposite terminal post. Insert tension bar in end of fabric and attach fence stretcher to bar. As you stretch the fabric test it for tension (it is stretched enough when it gives slightly). The top of the fabric should be located approximately 1/2" above the top rail to insure proper height.

After fence fabric is sufficiently tight, remove the excess fabric and connect the tension bar to the post with tension bands. Also fasten the fabric to the top rail and the line posts with tie wires spaced approximately 18" apart.

## Chain Link Installation - Hanging Gates

After the entire fence has been completed, attach post hinges (male hinge) to the gate posts, hanging the top hinge upside down thus preventing the gate from being lifted off. Loosely apply gate hinge (female hinge) on the gate frame and slip them onto the post hinges that have been installed on the gate post. Set hinges to allow for full swing of the gate and align the top of the gate with the top of the fence. Tighten all hinges securely. Install gate latch for single swing gates.

For double gates, use the same procedure as on walk gates but install the drop rod.

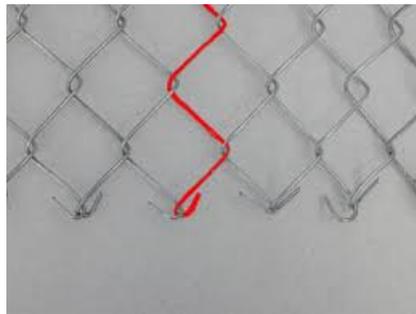
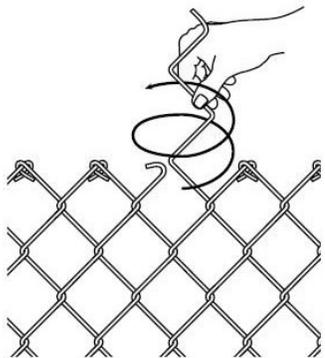


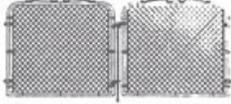
# Connecting Fence Fabric

To join two sections of fence fabric, remove the end wire on one of the sections by untying each end of the wire and twisting out the needle in a corkscrew fashion. Then pull the two sections together and connect with the single wire that was removed. Then retie each end. Note: sometimes it is necessary to remove a second wire on the one end in order for the two sections to mesh.

To shorten or take two sections apart, untwist wire at barbed end of fabric at the desired place. Loosen wire at the top of fabric and begin to corkscrew the loosened needle out, separating the two sections.

To splice two sections, you must be sure you start with a whole diamond and a half diamond at the top of the fabric. Corkscrew wire needle down through the ends of the sections. Twist the wires together at barbed ends and attach top of needle to the looped end.



DESCRIPTION		QUANTITY TO USE
<b>TERMINAL POSTS</b> (End, Corner and Gate Posts)		As required (2 for each gate)
<b>LINE POST</b> (Intermediate Post)		See Line Spacing Chart
<b>TENSION BAND</b>		For each end post, use 3 for 3', 3½' and 4' 4 each for 5' and 6'. Same for gate posts. Double the quantity for corner posts.
<b>BRACE BAND</b>		1 for each rail end
<b>5/16" x 1¼" CARRIAGE BOLT</b>		1 for each brace band, 1 for each tension band
<b>POST CAP</b>		1 for each terminal post
<b>EYE-TOP</b>		1 for each line post
<b>TOP RAIL</b> , plain or swaged end		Same lineal footage as fence fabric
<b>RAIL-END</b>		1 for each end post 1 for each gate post 2 for each corner post
<b>TOP RAIL SLEEVE</b>		1 for each length of plain end top rail. Not needed for swaged end top rail
<b>TENSION BAR</b>		1 for each end post 1 for each gate post 2 for each corner post
<b>FENCE FABRIC</b>		Same lineal footage of fence less gate openings
<b>TIE WIRES</b>		1 for every 24" of top rail and 1 for every 12" of line posts
<b>DOUBLE DRIVE GATE</b>		As required
<b>SINGLE WALK GATE</b>		As required
<b>POST HINGE</b> (Male Hinge)		2 for single walk gate, 4 for double drive gate
<b>¾" x 3" CARRIAGE BOLT</b>		1 for each post hinge
<b>GATE HINGE</b> (Female Hinge)		2 for single walk gate, 4 for double drive gate
<b>¾" x 1¼" CARRIAGE BOLT</b>		1 for each frame hinge
<b>FORK LATCH</b>		1 for each walk gate