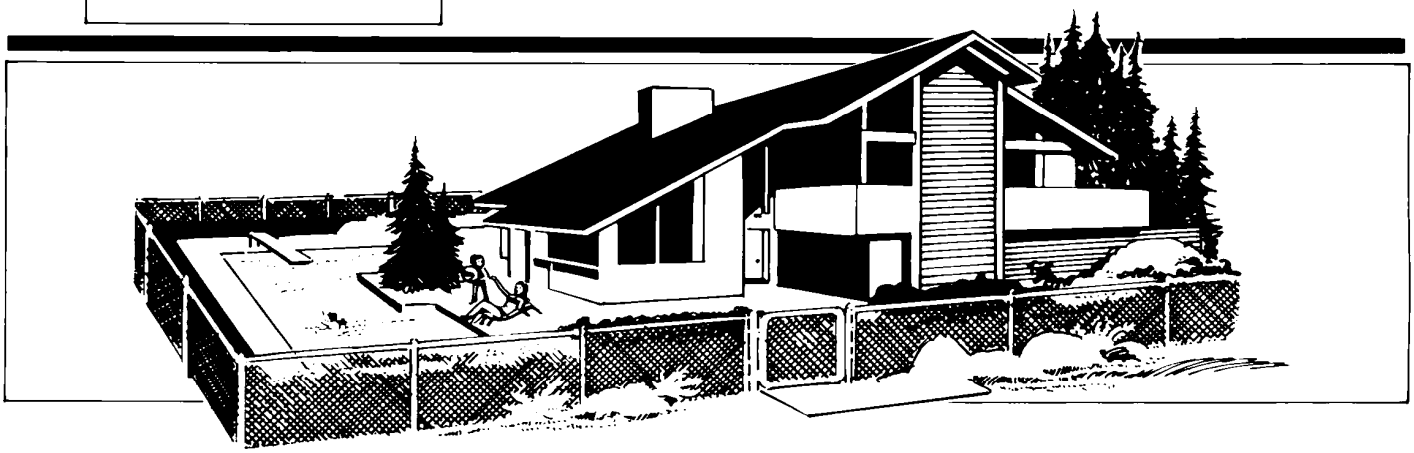
PHOENIX FENCE



Do-It-Yourself

STEP-BY-STEP
INSTALLATION INSTRUCTIONS

CHAIN LINK FENCING

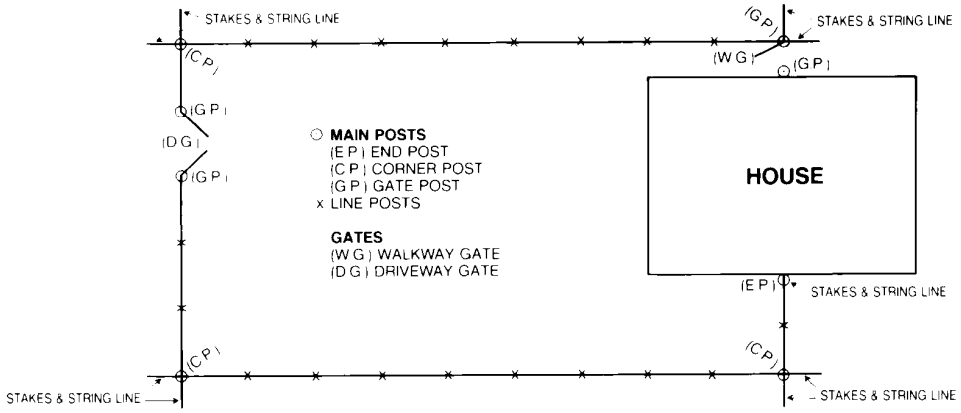
BEFORE YOU START

1) Establish and locate your property lines to be certain your fence will be within them.
2) Locate buried utilities before you dig, remember, THERE'S DANGER BELOW. Don't gamble on the unknown.
   For Free Locating Service:
   In Alberta - make a toll-free call to
   Alberta 1st Call 1-800-242-3447
   In other provinces individual utility companies may have to be contacted.
3) Check local bylaws for height and frontage requirements.

TOOLS YOU WILL REQUIRE

1. String or chalk line.
2. Tape measure (100 Ft.)
3. Post Hole Auger - 6" or 8" (may be rented locally)
4. Wheelbarrow, Shovel, Hoe. (to mix Concrete and Premix)
5. Carpenters Level.
6. Crescent or 9/16" wrench.
7. Hacksaw or pipe cutter.
8. Fence stretcher/come-along.
9. Pliers.
10. Hammer.

Layout Chart - FIGURE 1



How to Install Fence - FOLLOW THESE EASY STEPS

The 40 steps are divided into Four Sections as follows:

SECTION ONE Steps 1 to 13

Locate and Set Main Posts and Line Posts

First establish the location of End, Corner and Gate Posts. (which are referred to as Main Posts)

We recommend that all posts be set approximately 4" inside your property lines to avoid encroaching on adjoining property with concrete footings.

This may be done by stretching string or chalk lines 4" inside your property lines between stakes. (refer to layout chart - figure 1)

When determining the location of Gate Posts remember that clearance for hinges and latches is included in the listed width of the gate. Example - If you ordered a gate 44" wide, the exact opening between the Gate Posts should be 44" (Inside Post Face to Inside Post Face)

Line Post spacing should not exceed 10 ft. apart. Measure the distance between Main Posts and refer to the Line Post Spacing Chart - Figure 2.

The Line Post holes should be lined up so that when they are set in the centre of their holes, their centres will line up with the Main Post centres. This means the outside faces of the Line Posts will be about ¼" inside of the string or chalk line stretched between the outside of the main posts.

SECTION TWO Steps 14 to 23

Install Framework Fittings and Top Rail

First, refer to Fence Component Identification Chart - figure 3.

After the Main Posts and Line Posts have been installed and the concrete allowed to cure, assemble the Framework Fittings, Top Rail and Bottom Brace (Tension) Wire.

SECTION THREE Steps 24 to 38

Hang and Stretch Chain Link Fabric

After assembling the framework you are now ready to hang and stretch the Chain Link Fabric. Remember the fabric should be on the outside face of all posts and also to place all bolt heads on outside of fence.

SECTION FOUR Steps 39 and 40

Hang the Gates

After the entire fence has been completed, you are now ready to hang the Gates. Remember, to prevent the gate from being lifted off, Top Hinge Pin should be installed pointing down, Bottom Hinge Pin pointing up. Hang Gates so top of Gate will be level with top rail.

LINE POST SPACING CHART

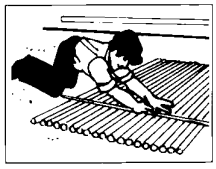
Terminal Post Spacing	Set Line Posts Apart	Terminal Post Spacing	Set Line Posts Apart	Terminal Post Spacing	Set Line Posts Apart	Terminal Post Spacing	Set Line Posts Apart	Terminal Post Spacing	Set Line Posts Apart	Terminal Post Spacing	Set Line Posts Apart
30'	10'	47'	9' 5"	64'	9'	81'	9'	98'	9' 8"	114'	9' 6"
31'	7' 9"	48'	9' 7"	65'	9' 3"	82'	9' 1"	99'	9' 9"	115'	9' 7"
32'	8"	49'	9' 9"	66'	9' 5"	83'	9' 3"	100'	10'	116'	9' 8"
33'	8' 3"	50'	10'	67'	9' 7"	84'	9' 4"	101'	9' 2"	117'	9' 9"
34'	8' 6"	51'	8' 6"	68'	9' 8"	85'	9' 6"	102'	9' 3"	118'	9'10"
35'	8' 9"	52'	8' 8"	69'	9'10"	86'	9' 7"	103'	9' 4"	119'	9'10"
36'	9'	53'	8'10"	70'	10'	87'	9' 8"	104'	9' 5"	120'	10'
37'	9' 3"	54'	9'	71'	8' 9"	88'	9' 9"	105'	9' 6"	121'	9' 3"
38'	9' 6"	55'	8' 2"	72'	9'	89'	9'10"	106'	9' 7"	122'	9' 4"
39'	9' 9"	56'	9' 4"	73'	9' 2"	90'	9'	107'	9' 8"	123'	9' 5"
40'	10'	57'	9' 6"	74'	9' 3"	91'	9' 2"	108'	9' 9"	124'	9' 6"
41'	8' 2"	58'	9' 8"	75'	9' 4"	92'	9' 2"	109'	9'10"	125'	9' 7"
42'	8' 5"	59'	9'10"	76'	9' 6"	93'	9' 3"	110'	10'	126'	9' 8"
43'	8' 6"	60'	10'	77'	9' 7"	94'	9' 5"	111'	9' 3"	127'	9' 9"
44'	8' 9"	61'	8' 8"	78'	9' 9"	95'	9' 6"	112'	9' 4"	128'	9'10"
45'	9'	62'	8'10"	79'	9'10"	96'	9' 7"	113'	9' 5"	129'	9'10"
46'	9' 2"	63'	9'	80'	10'	97'	9' 7"				

SECTION ONE
STEPS 1-13

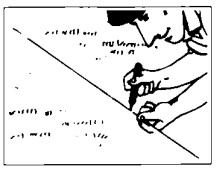
1. Stake the area to be fenced. Be sure you have complied with all codes. Stay 4" inside your property line so that your concrete footings are on target.

2. Place stakes beyond actual corners so your fence line will not be obstructed by stakes. Get ready to string your fence line.

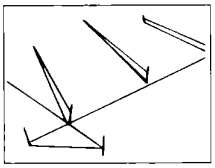
3. Stretch your string tightly between your stakes. Mark, and then dig, the center of your post holes along the string line.



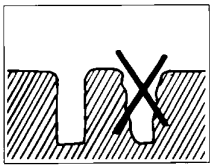
4. Mark line posts for hole depth 2" less than chain link fabric. All main posts should be marked 3" longer than fence height.



5. Measure and mark your string where posts are to go. Stay 10' centers, or less. For a more attractive fence be accurate on spacing.



6. Mark center of each intended hole to be dug by sticking nail or tie wire into ground at each spot. Remove the string and prepare to dig at each marker.

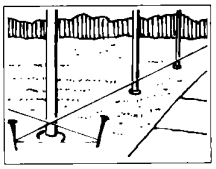


7. Dig post holes 6" diameter. Main posts 36" deep, line posts 30" deep.

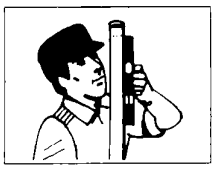
8. Dig each hole about 3" deeper than the post will go into the ground. This will anchor the post firmly into the concrete.

9. Premix concrete needed per post hole: 6"x 30" = ½ CU FT
6"x 36" = ⅔ CU FT 8"x 30" = ⅞ CU FT
8"x 36" = 1.1 CU FT
Pour one hole at a time starting with terminal posts.

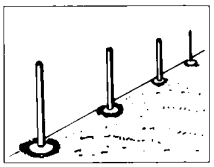
10. Fill hole 2" from top. Set post to its ground level mark. Check plumb with level. Then add top layer of dirt after concrete sets to bring it up to ground level.



11. Stretch string from the "outside" of one terminal post to the "outside" of the other terminal posts. Line posts should be ¼" inside of this line.

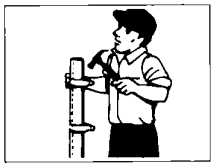


12. The fencing will follow the contours of the land as long as you set each post to its ground level mark. Be sure each post is plumb and set right.

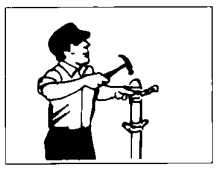


13. Check all the terminal and line posts you have set. Make sure they are set to the right level marks. It is now wise to let the concrete cure 24 hours.

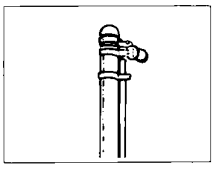
SECTION TWO
STEPS 14-23



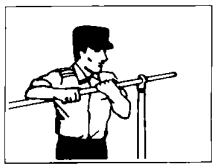
14. Install fittings on corner and end posts. Install tension bands 12" apart. Be sure flat side is out facing chain link fabric to be installed.



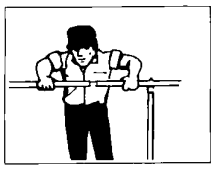
15. Install rail ends. Tap post cap on post top.



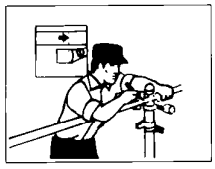
16. Example of post with fittings installed.



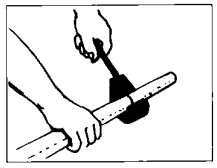
17. Install top rail. Pipe runs through the loop of the eye-top.



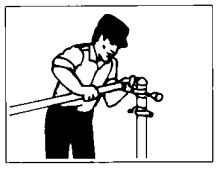
18. Top rail sections are merely joined making a continuous railing.



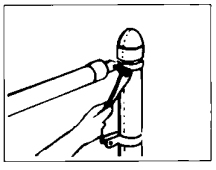
19. At an end or corner post, mark rail so that it nestles into the cup of the rail end. Measuring carefully is essential.



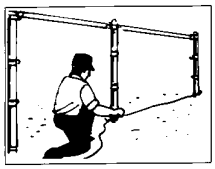
20. Cut precisely on the mark made on the top rail.



21. Insert the end of the top rail into the cup of the rail end fitting and easily pop it into place by pushing down.

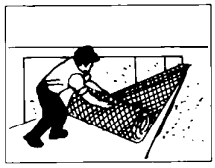


22. Tighten the end rail band until it is firmly locked into position.

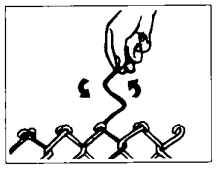


23. Stretch bottom brace wire between main posts, wrap around main posts and twist tie, hog ring along fabric at 24" spacing.

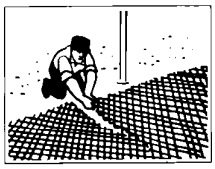
SECTION THREE
STEPS 24-38



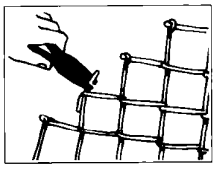
24. Roll out the chain link fabric outside of the installed framework. If there is very little room to work with then stand the roll up and peel it off that way.



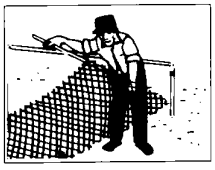
25. Chain link fabric is easily taken apart and spliced back together. To take apart or join open the "knuckle" at each end and twist out one of the pickets.



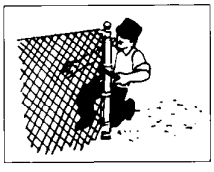
26. One single picket strand can be weaved in to join two sections of fabric - or excess material can be taken out by the same easy process.



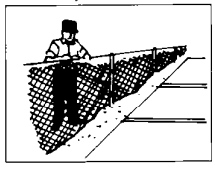
27. Practice on a piece of chain link. Open the knuckle and twist the wire picket in or out.



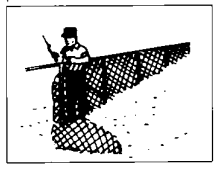
28. Slip the tension bar through the end of the chain link fabric.



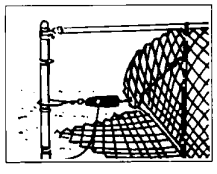
29. Slide the tension bar into the post tension band. Tighten the bands.



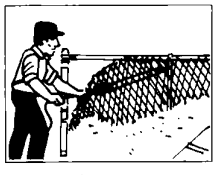
30. Attach fabric to the top rail with tie wires, it should be hung loosely. The fabric should be installed securely at one end - and draped loosely along the rail.



31. Slide a second tension bar approximately 10' from the end or corner post at the end of the fence line.

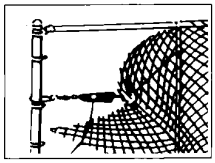


32. Attach the chain link "fence stretcher" to the tension bar and slowly pull the slack out of the fabric.

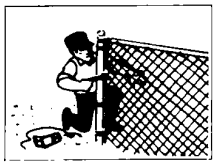


33. If you find there is too much slack in the fabric then reposition the tension bar and repeat the procedure.

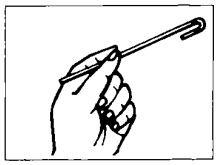
34. To make sure that the fabric is well pulled out, grab it at different sections of the fence line and shake it. The diamonds should all line up



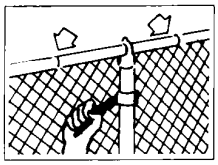
35. Return to the stretcher and pull it again until you are sure that you have a nice, tightly drawn, line of fence fabric



36. You will now apply the tension bands just like you did at the opposite end of the fence line. The fabric should now be tight, but with a slight bit of floppy.



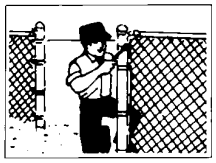
37. The floppiness of the chain link fabric will be corrected by the installation of the tie wires.



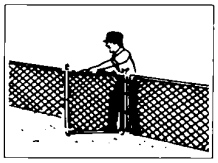
38. Line up the chain link fabric and twist the tie wires into place along the top rail and to all the posts along the fence line.

SECTION FOUR
STEPS 39-40

39. Mount the hinges so the top one points down - bottom one up. Don't tighten the hinges until you hang the gate

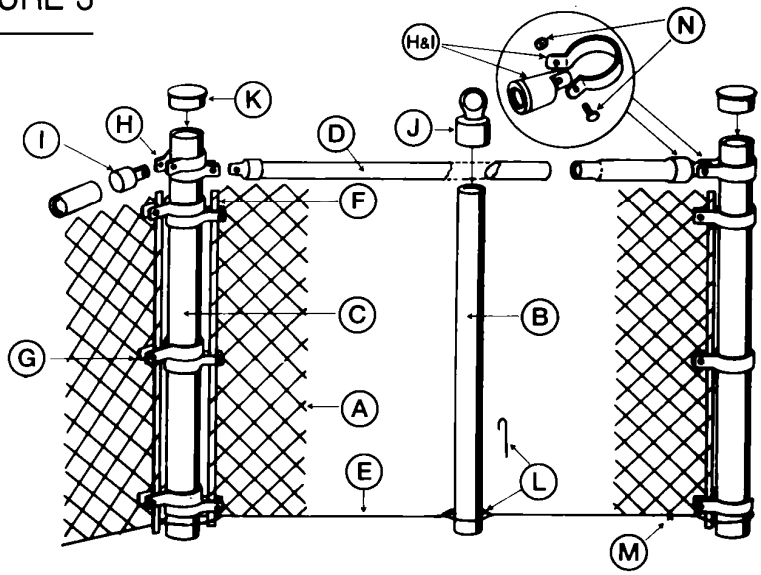


40. Hang gate. Make sure it swings properly and is lined up correctly. When you are sure, then tighten the hinges.



Fence Component Chart - FIGURE 3

A) Chain Link Fabric.
B) Line Posts - 1⅝" O.D. Pipe.
C) Main Posts - End, Gate, Corner
- 1⅞" O.D. Pipe.
- 2⅜" O.D. Pipe
D) Top Rail - 1⅜" O.D. Pipe.
E) Bottom Brace Wire - to match fabric, same length as fence fabric plus ten percent.
F) Tension Bars - one required for each fabric termination.
G) Tension Bands - three required for each fabric termination.
H&I) Brace Bands & Rail Ends - one set required for each top rail termination.
J) Line Post Eye Caps - one required for each line post.
K) Main Post Caps - one required for each main post.
L) Tie Wires - one required for every 24" of top rail and 3 for each line post.
M) Hog Rings - one required for every 24" of bottom brace wire.
N) Nut & Bolt 5/16" x 1¼" Carriage - one required for each Brace Band and Tension Band.

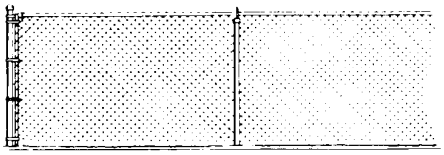


A WORD ABOUT CONTOURS AND UNEVEN GROUND

The described installation procedures will result in the bottom of the fence and the top rail following the contour of the ground. Should you desire the top rail to be straight you will have to "sight in" the tops of your line posts accordingly. This may result in clearance under the fence.

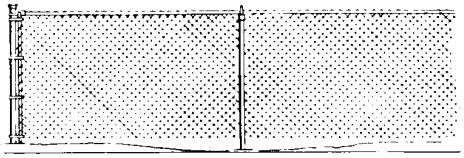
In all examples shown, tops of the Terminal Posts should be 2" above fabric; tops of Line Posts 2" below top of fabric. Measure without fittings.

STANDARD INSTALLATION PROCEDURE



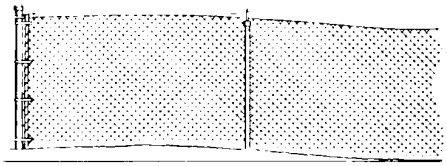
1. FLAT GROUND

"SIGHT IN" INSTALLATION PROCEDURE



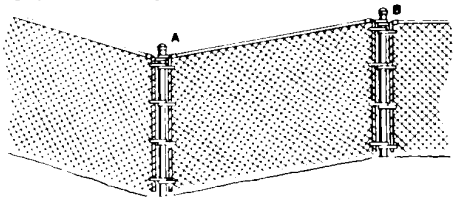
2. SLIGHTLY UNEVEN GROUND

STANDARD INSTALLATION PROCEDURE



3. SLIGHTLY ROLLING GROUND

"SIGHT IN" INSTALLATION PROCEDURE



4. VERY UNEVEN GROUND
Corner Post assembly is used at points A and B when ground rises or drops more than 15" per 100 lin. ft.