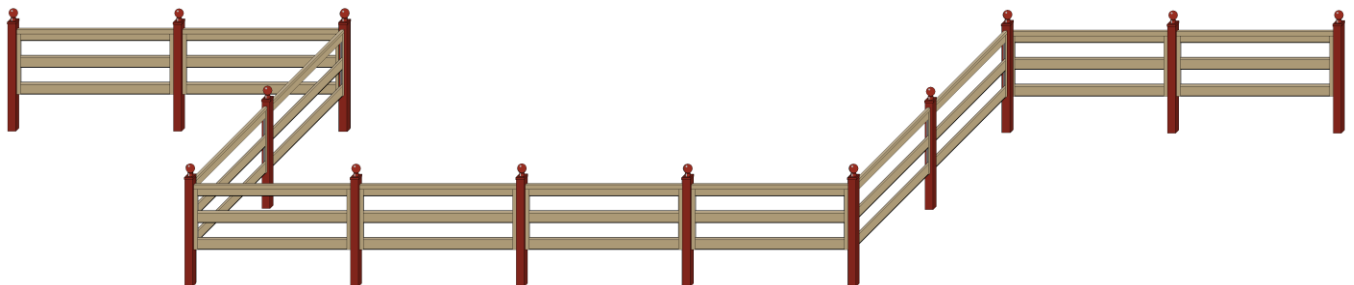
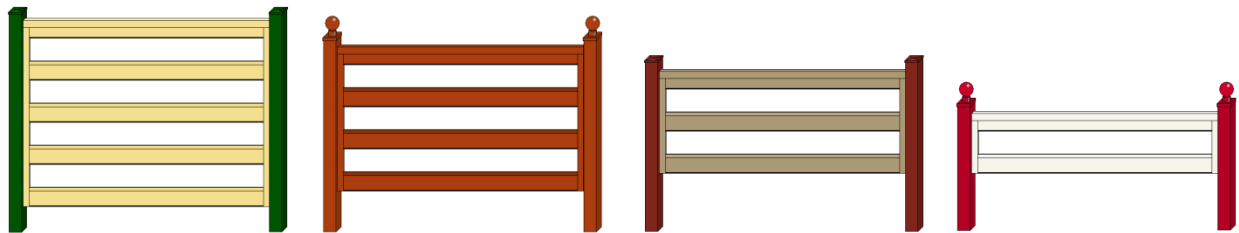




Patented 2004

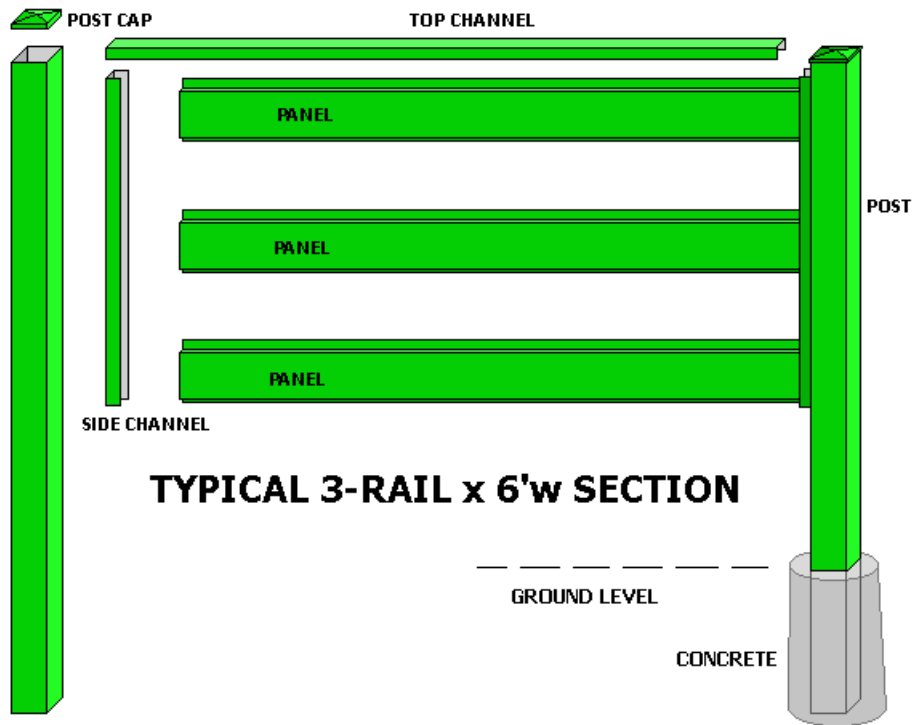
INSTALLATION INSTRUCTIONS

Ranch Fence Installation: 5-RAIL, 4-RAIL, 3-RAIL & 2-RAIL



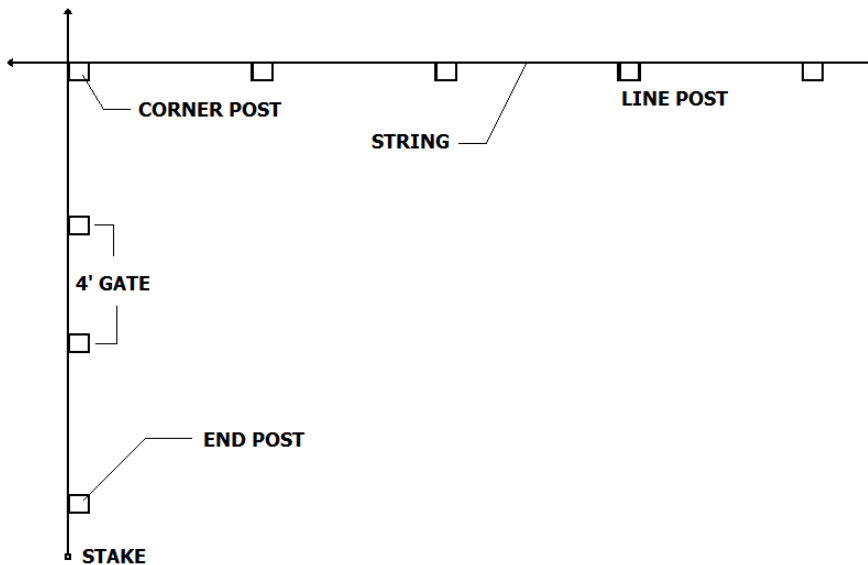
BEST METAL FENCE CO.
115 S COLE STREET
NEVADA, TX 75173
TEL: 972-578-1599 FAX: 800-390-1578

INSTALLATION INSTRUCTIONS FOR RANCHGARD SERIES RAIL FENCE

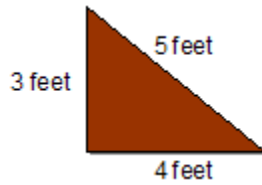


PREPARING FENCE LINE

- 1) Check with local ordinances on rules and regulations before building fence in your area.
- 2) Before any digging is done, contact the local utility companies for identification of any buried lines, cables, pipelines, etc.
- 3) Layout fence line.
 - a. Check property line and establish correct line for your fence.
 - b. Establish fence line approximately 1/4" from outside edge of posts. We suggest using a couple of stakes with nylon string stretched tight to create a straight line.

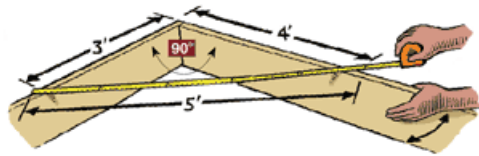


NOTE: One of the challenges when creating corners is getting them square. While no fence is ever PERFECTLY square, we need to get the corners as close to 90 degrees as possible. Using the 3-4-5 method for squaring corners will help ensure your corners are square.



To create corners, we use the 3-4-5 rule from basic geometry: $A^2 + B^2 = C^2$. This means the square of the hypotenuse of a right triangle is equal to the sum of the square of both legs.

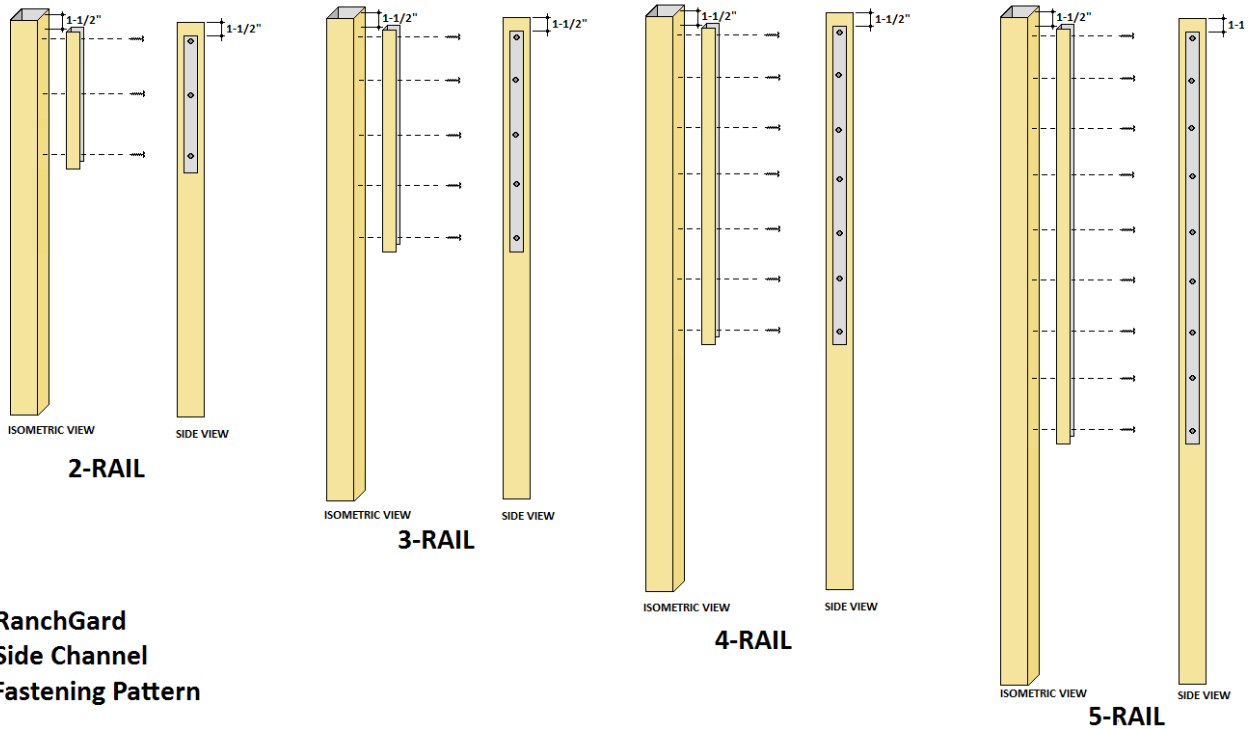
It simply means that if you measure 3' out from the corner in one direction, and 4' out in the other direction, the line between the two points should be 5'. If not, your corner isn't square.



- Using the layout, mark and dig all holes 9" x 9" wide and 27" deep at 72" center-to-center of holes. Use of an actual "Top Channel" and a "Post" for spacing is recommended. Top Channels may be trimmed for gates and sections less than 72" wide.

PRE- POST SET ASSEMBLY

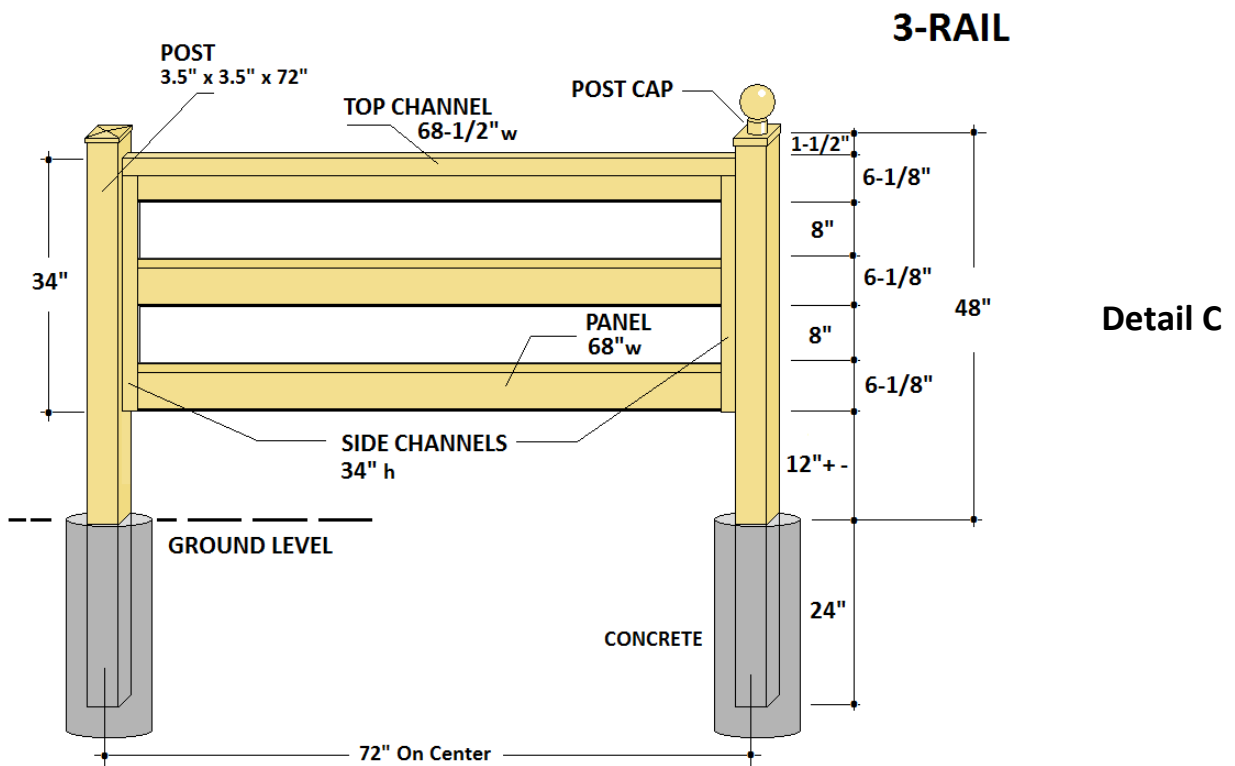
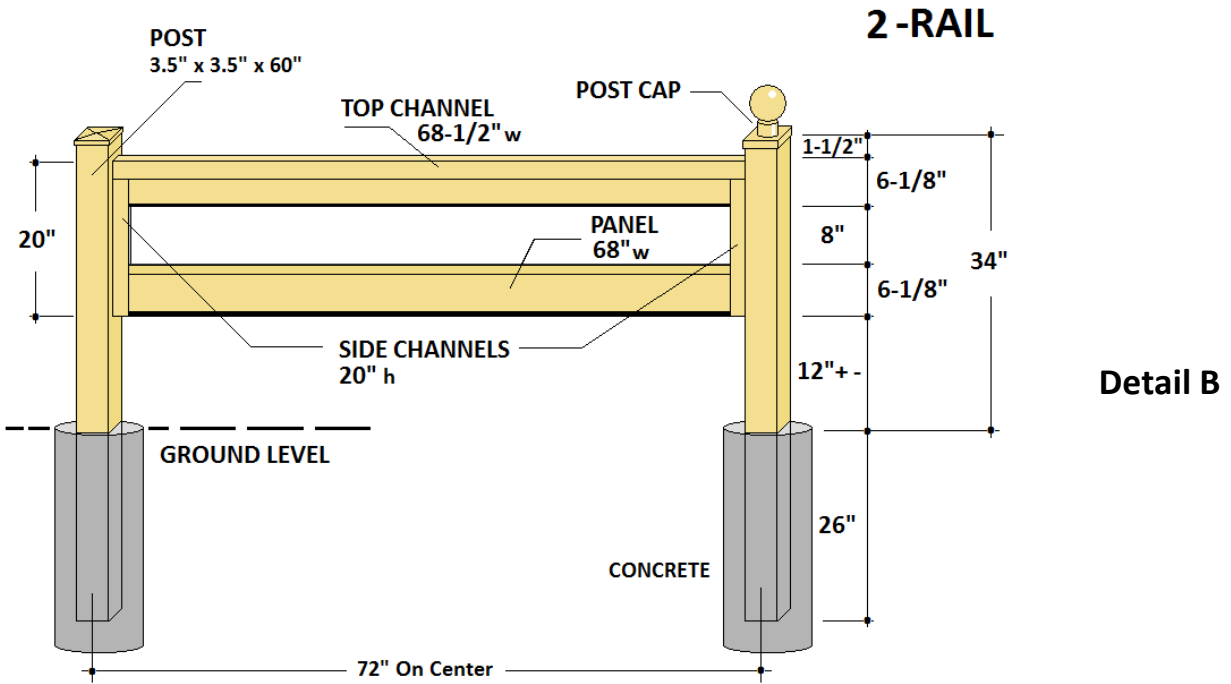
- Install Side Channels to Posts prior to setting Post in concrete mix. (See Detail A)

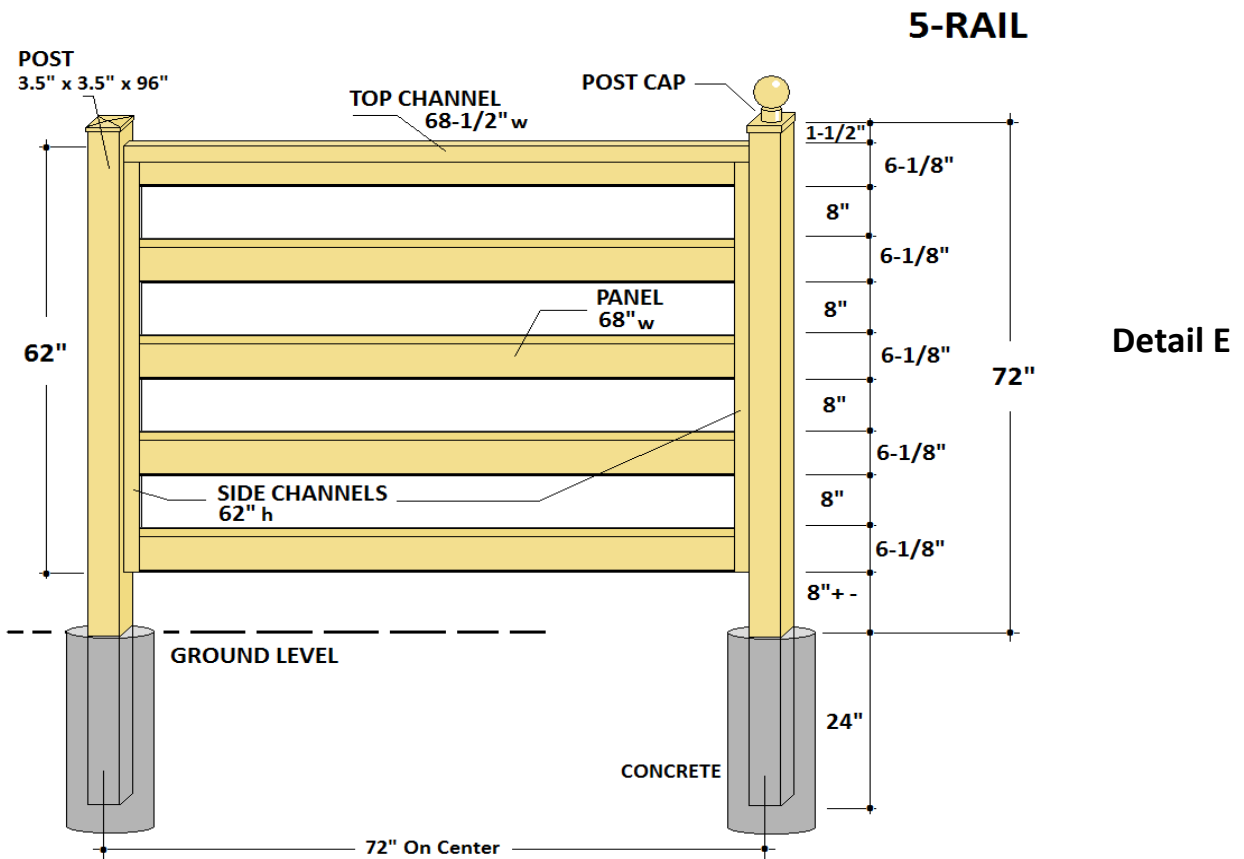
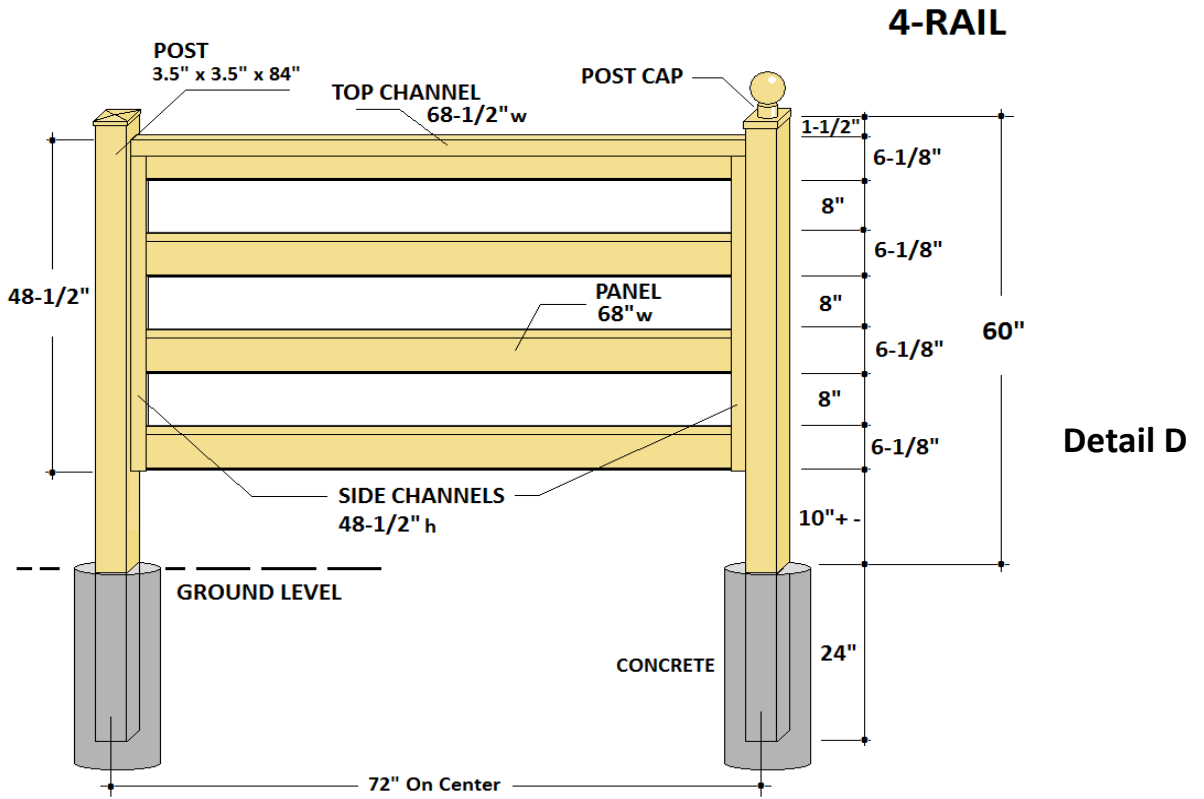


**RanchGard
Side Channel
Fastening Pattern**

Detail A

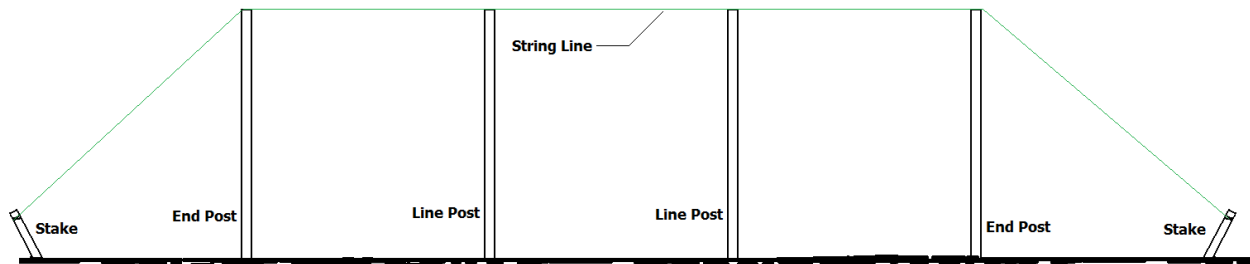
- 2) At this point, you will determine the height of the fence post top to the ground. Mark each post with masking tape at the Ground Level line. This will help create a visual fix as to post height above ground until you can set up your string plumb line. Post height is determined by which RanchGard Series purchased, i.e., 2-Rail, 3-Rail, 4-Rail or 5-Rail. (See Details B, C, D, E)





SETTING POSTS

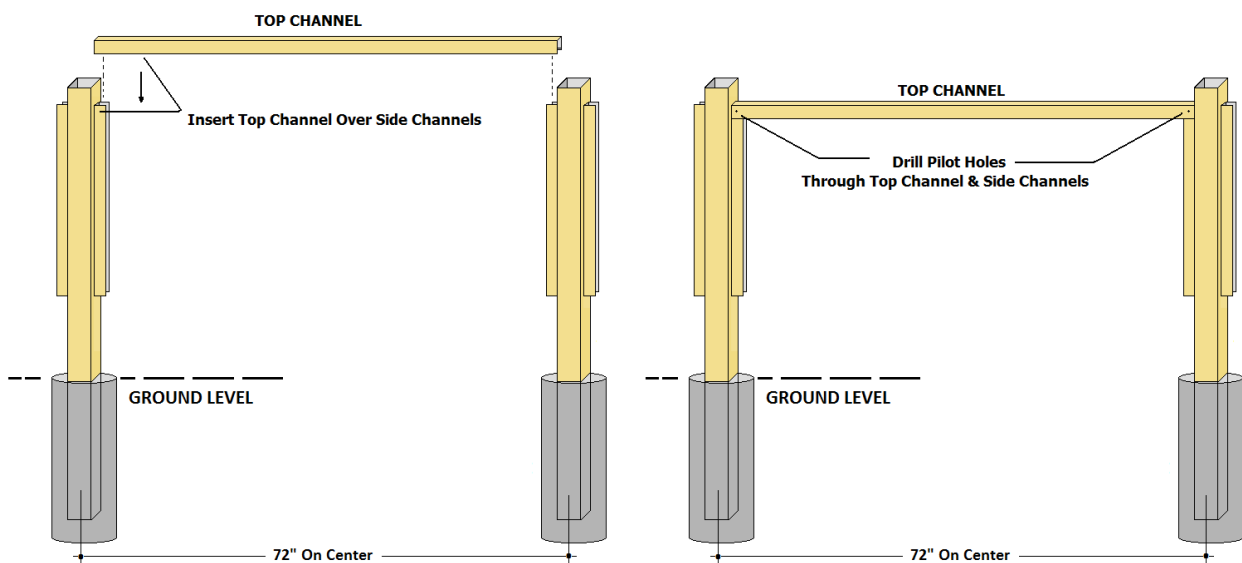
- 1) Place a spacer such as a brick, rock or gravel in the bottom of the hole to allow for post height adjustment. Spacers may be used to hold the post in place until the concrete mix is poured.
- 2) When mixing concrete to pour around the base of the post, use one part cement, two parts gravel, four parts sand and just enough water to create a thick consistency. You may also use a commercial "pre-mix" and follow the instructions on the bag.
 - a. After the concrete is mixed, pour it around the outside base of the post. Filling the inside of the post should be done after fence sections are installed. Before the concrete is set, make sure the posts are plumb and straight.
 - b. To maintain post height, set up a string plumb line. (See Detail F). The post heights may be adjusted lower by placing a block of wood on top of the post and gently tapping the post deeper with a hammer. Should the post need to be raised, a 1 x 4 piece of lumber can be placed under the Side Channel(s) and used as a handle to pull the post up to the desired height. Allow the posts to set for 24 hours before installing fence panels. Posts must be level before concrete sets.



Detail F

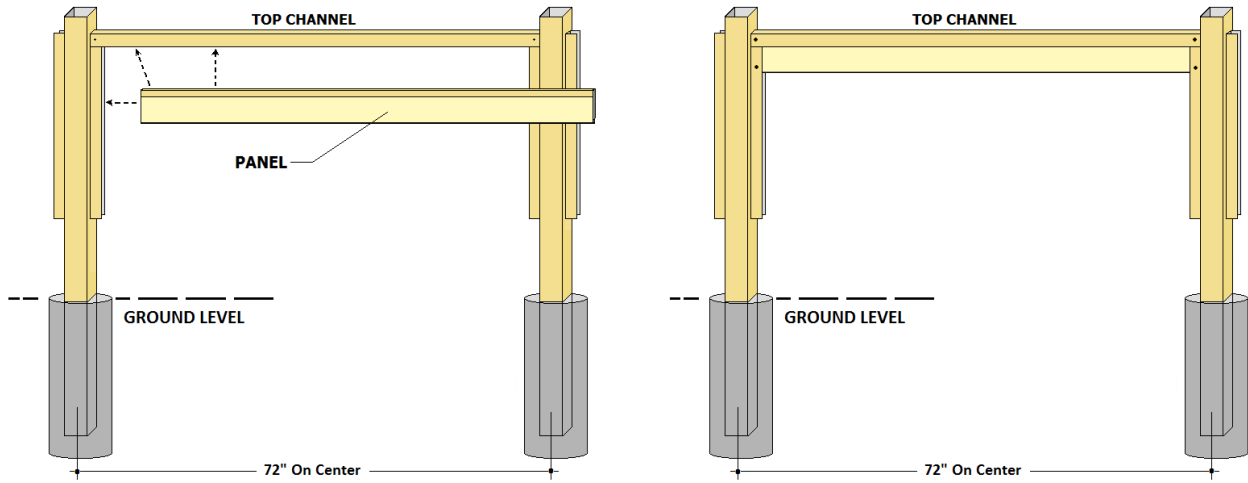
PANEL & TOP CHANNEL INSTALLATION

- 1) Check parts received with packing list.
- 2) Insert Top Channel over tops of Side Channel. Drill pilot holes for screw #1 into Top Channel. (See Detail G).



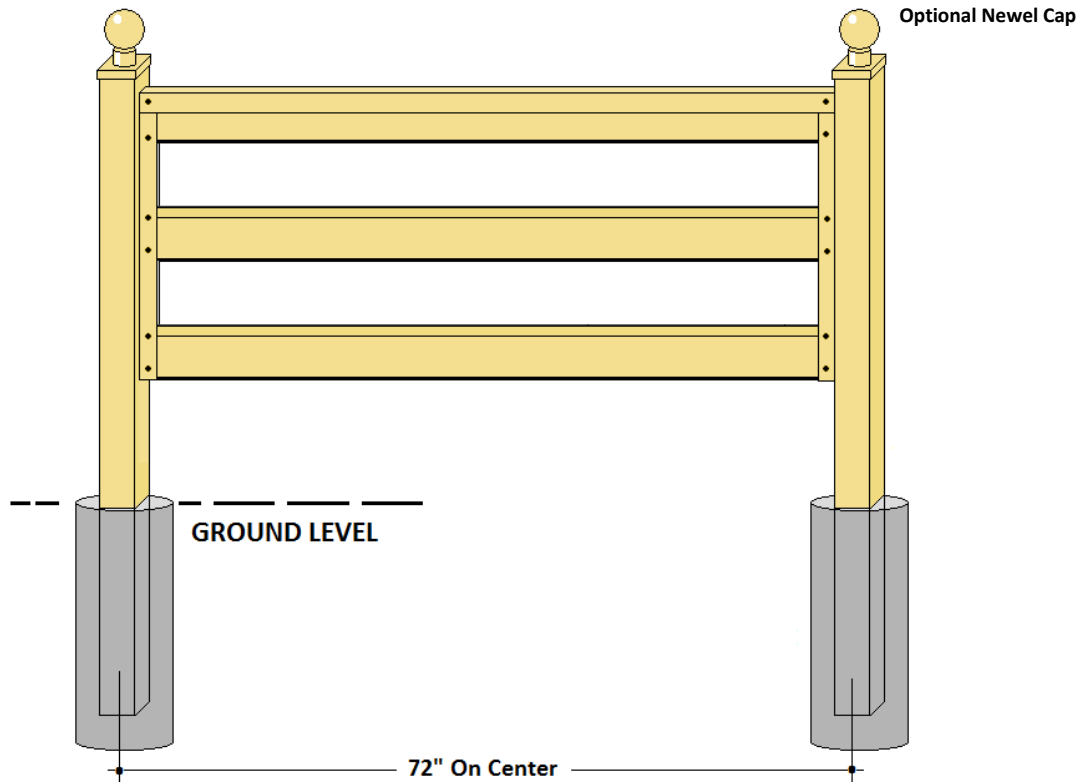
Detail G

- 3) Insert first Panel tight up into Top Channel and inside Side Channel.
- 4) Using self-drilling screws, attach first Panel. (See Detail H).



Detail H

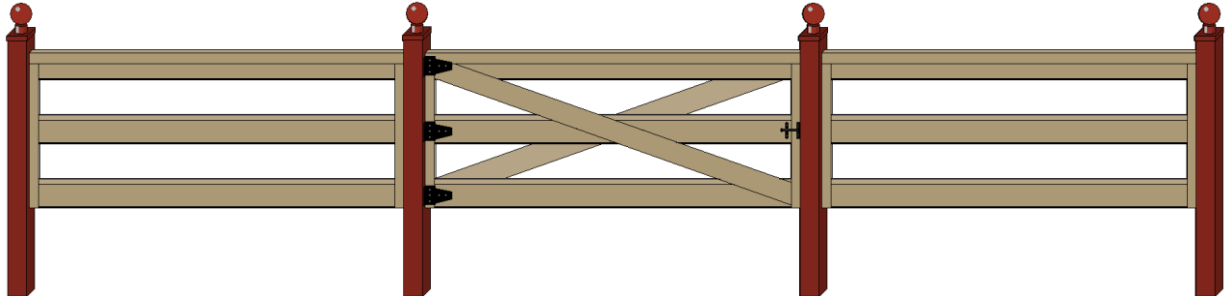
- 5) Repeat installation of Panels as per Drawing Details B, C, D or E. See sample of a 3-Rail Assembly (Detail I).



Detail I

GATE ASSEMBLY

- 1) Gate Assemblies are no different than the section assembly as previously shown except that a gate support strap must be installed to decrease sagging.
- 2) Any gate support assembly hardware can be used to accomplish this task. The diagram below depicts a custom fit sheet metal strap to match the panel color and material. (Detail J)



Detail J

- 3) Wherever gate hardware is mounted to the post, be sure a 1x3 or 2x3 treated board is inserted into the post cavity. This allows proper fastener attachment through the metal post.
- 4) It is recommended to fill each gate post & corner post with concrete before installing the post caps.