

# N&W Ry Freight Station.



RIVER LEAF MODELS, LLC

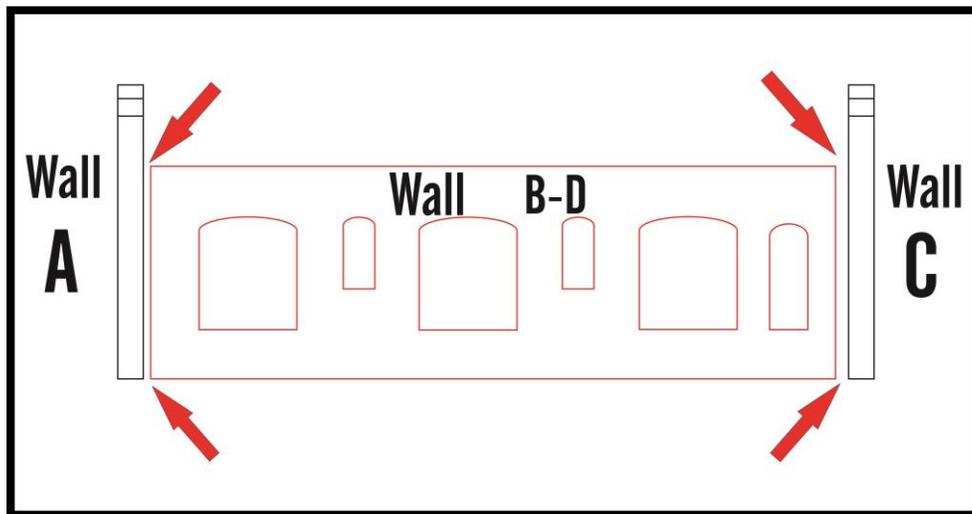
Thank you for purchasing the N&W RY Freight Station structure kit. Your kit includes everything you need to produce the final assembly. We recommend using “Carpenter’s Glue” available in a number of different brands, including Tidebond III. We also recommend using a steel square for aligning your walls for perpendicularity, although a drafting triangle will also suffice. A sharp X-Acto knife and a sanding tool – either fine sandpaper or a nail file will be suitable.

### Step #1 –Glue the Four Wall Together.

Apply Carpenters Glue to the edges of the side walls (B & D). Again, do not use an excessive amount of glue or the glue will seep out the sides. Apply a thin bead of glue and spread it to a thin coat. You may also opt to apply a bead of glue to the inside surface of the front and side walls (A & C).

Carpenters Glue will afford you the time to perfectly align your walls, as there is some “setup” time. I recommend you do one corner at a time in one sitting. This will give you the flexibility to adjust the perpendicularity of the structure. Once you have your walls all secured, I recommend letting the glue dry for 24 hours. While the glue is setting, you can use the roof panel as a checking tool to ensure the building corners are perpendicular. You may want to use clamps positioned with the clamping faces on the front and rear of the building to form a tight glued seal.

On structures made of lighter or less sturdy material, it is common practice to run a square brace tucked into each quarter using 1/4” or 3/8” square wood. On River Leaf Models, this is not necessary; however, the option is there to do so if you wish.

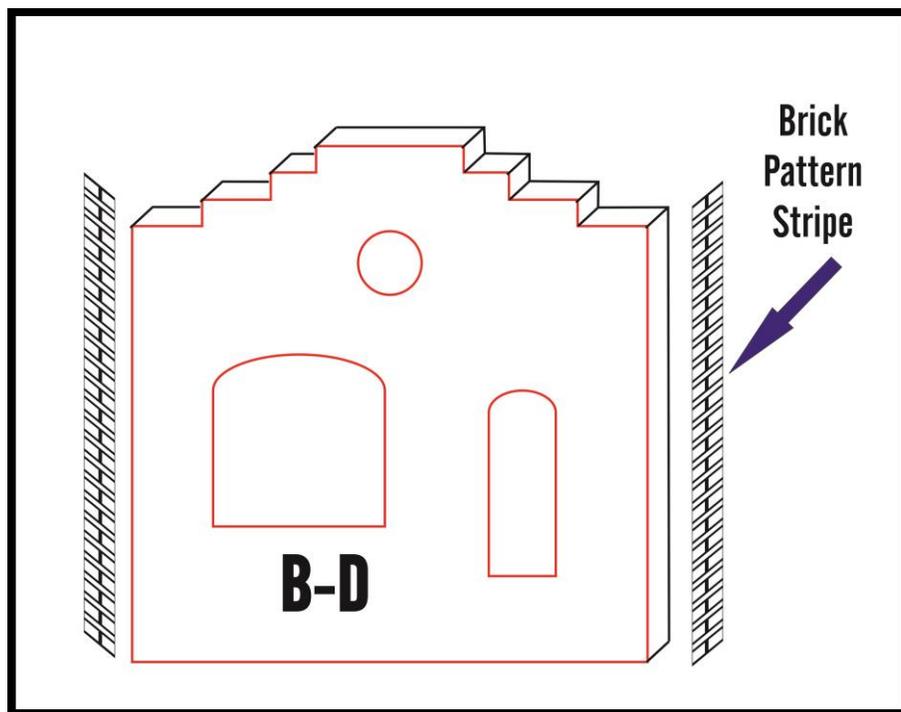


**FIGURE 1 – GLUING YOUR STRUCTURE WALLS**

## Step #2 –Glue the strip of brick facing to the side of the front wall.

The walls of your kit are cut from MDF with the brick pattern etched to the front surface. As a result the side of the wall section of the front and rear of the building (A-C) require adding the brick pattern. As show in the Figure 2, apply the supplied brick pattern strip to the sides of the front wall using carpenter glue.

Be careful to not use excessive amount of glue when applying the strip. Glue will seep from the side. Apply a thin bead down the center of the side surface of the front wall and spread it evenly over the area. Apply the brick pattern strip on the glued area.



**FIGURE 2 – APPLYING BRICK PATTERN STRIP**

The brick pattern strip is longer than the edge of the wall. Trim off the excess and repeat. You will also need to apply the brick pattern strip to the side edges of the rear wall (Face B-D). Sufficient brick pattern strip material is supplied to cover all exposed surfaces.

### **Step #3 - Painting the Base Structure.**

There are a number of methods for painting the structure and experienced modelers will find the structure is well suited to any number of painting and detailing techniques. Here is a technique I believe will deliver excellent results.

Once the glue has completely dried, you will find you have a very sturdy base on which to work. To achieve the effect of mortar lines between brick layers, paint the entire structure with an undercoat of the color you want for your mortar lines. White is a logical choice as it gives you distinctive mortar lines and provides a consistent undercoat base for the brick surface of the building. Paint the entire structure, concentrating on the engraved mortar lines and let the building thoroughly dry.

Having the building completely dry is an important step, as your second step is to paint the brick surface and you want to avoid streaking. After the building is completely dry, paint your desired color on the brick surface. You want to avoid getting paint in the mortar lines. Use acrylic paint in your desired color using a “dry brush” technique. Dry brushing calls for using a minimal amount of paint on your brush and painting the surface lightly – preferably with a broader brush. This technique will have the paint cover the brick surface without seeping into your mortar lines.

In order to achieve a “dry brush” after dipping your brush into paint, whip a few strokes on your backdrop paper or other surface. This will remove the excess paint from the brush. Dry brushing may require you to apply a few coats. Don’t try to achieve full coverage in one coat. Dry brushing is a process in which you build your color through a series of layers. By following these instructions, your finished product will have a distinctive mortar line and a pleasing brick surface color. Once your structure is painted and completely dry, you can move on to adding the details.

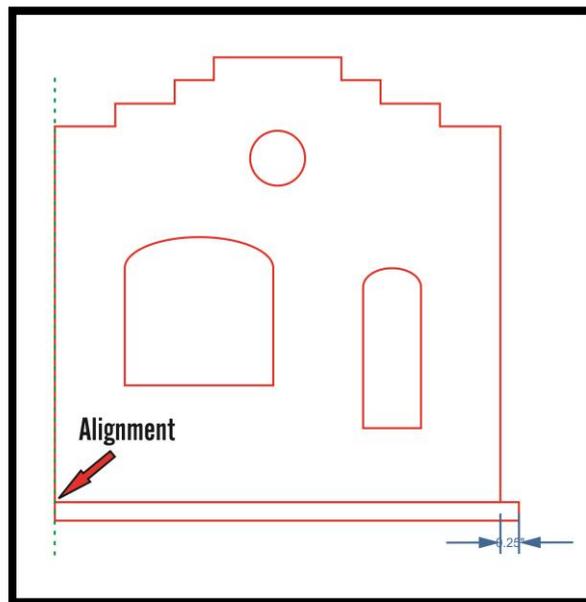
Another technique is paint the wall using acrylic paint in the desired color, let it dry for an hour or two, apply flat clear coat, let it dry for an hour and then apply spackling paste. Let it dry a little bit and wipe out the leftover using a damp cloth.

**Step #4 – Assembling the Base.**

Your structure is now stable, squared up and ready.

Apply carpenter glue on the bottom of the structure and position it over the base previously painted.

The track side will be aligned with the A & C wall edges, and in the loading side (trucks) the base will protrude  $\frac{1}{4}$  of an inch. From side to side you can align to your convenience.

**FIGURE 3 – ASSEMBLING THE BASE**

### Step #5 – Applying Windows, Doors and Details

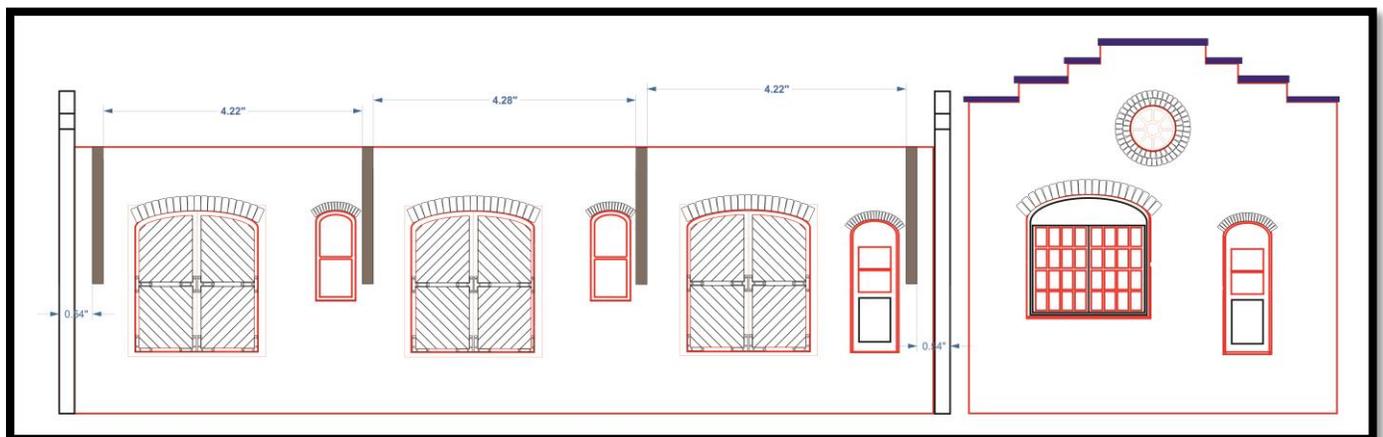
After painting, place windows as shown. If you find the fit to be tight, a light sanding on either side should suffice for a good fit. Apply the window glass and insert into wall. The front and side views shown in Figure #5 show window, door and detail placement. The freight doors are precut in case you want to show them open or make them slice. The brace roof will be applied after the roof is in position, applying a little amount of glue in both contact surfaces. The distance between the braces is showing in the diagram, some dimension could vary.

The top cover cornice is self explanatory. The set is precut and is in the installation order starting from one of the edges.

In the truck side attach the wood bumper in each door and insert the anchor bolts.

**I recommend to do not install the attic ventilation window until the end.**

**Slice rail are not supplied with the kit.**



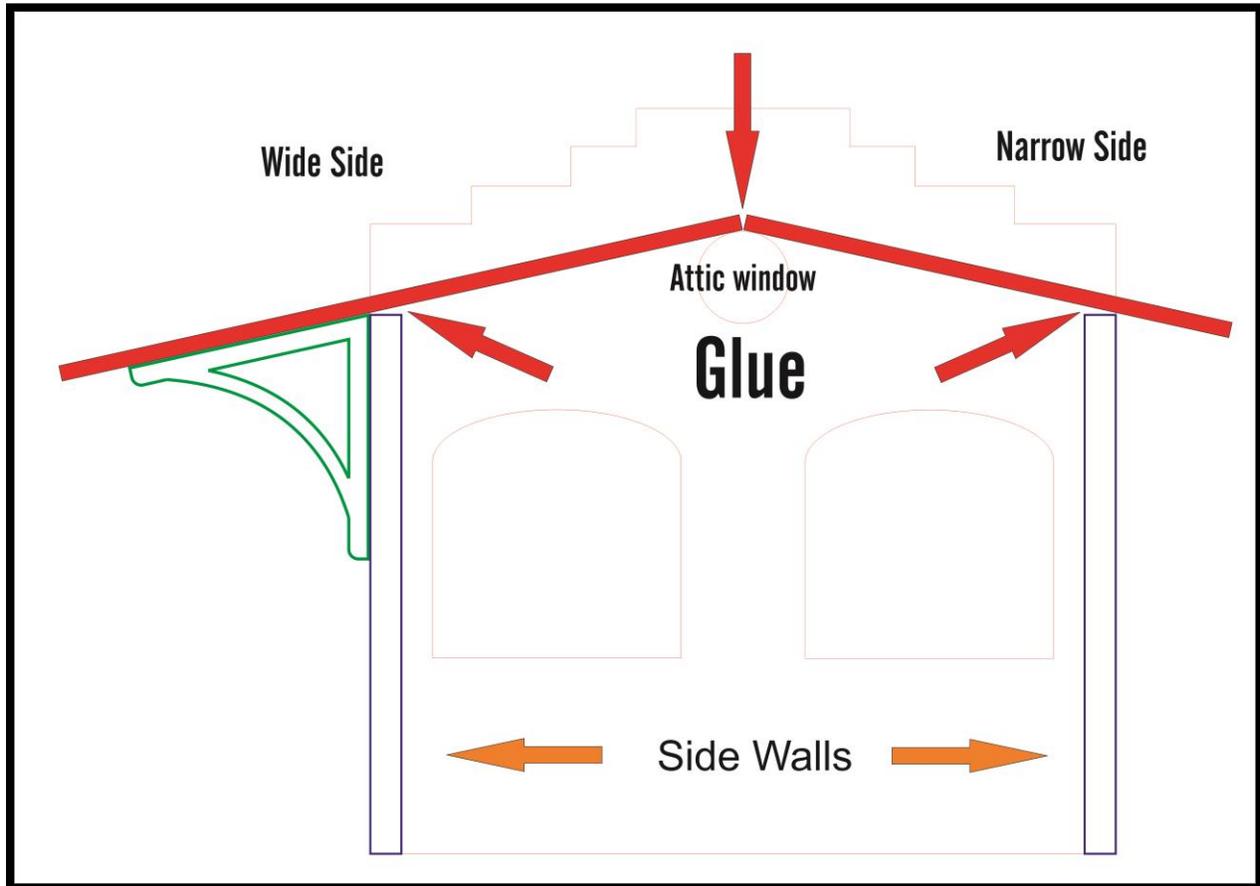
**FIGURE #5 – WINDOW, DOOR & DETAIL PLACEMENT**

### Step #6 – Applying the Two Section Roof and Braces.

The roof is composed by two pieces, one narrow and one wide. The narrow one will be installed in the unloading side (trucks) and the wider in the track side as showed in the picture.

The installation will start positioning one of the roof side in the middle of the attic ventilation window and letting rest the other end over the side wall. To keep the roof aligned you can use a 3/4" wood dowel inserted in the attic ventilation window. After you are familiar with the proper alignment procedure, proceed to add glue on the edge of the

side walls and repeat the procedure again with both roof sides. Let it dry for several hours.



**FIGURE #6– ROOF INSTALLATION**

### **Step #7 – Concrete Loading Dock**

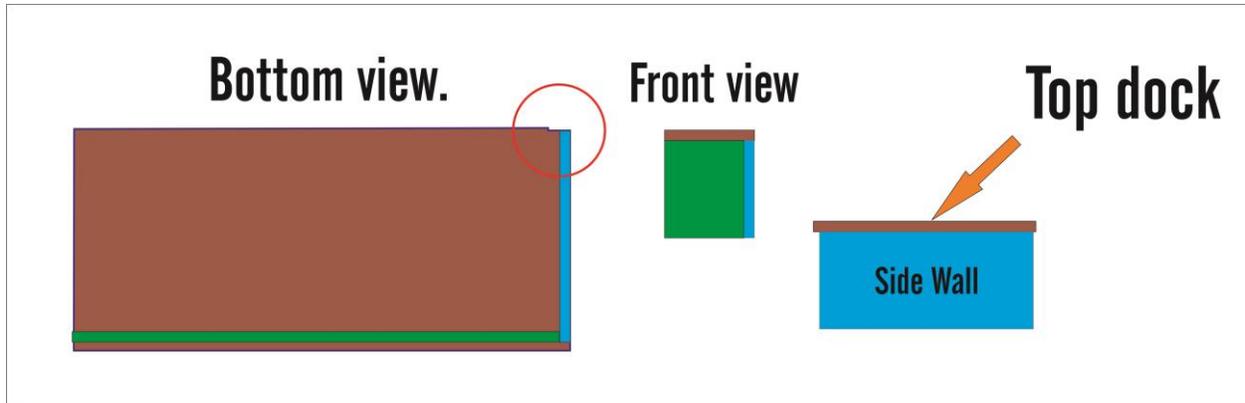
The loading dock is composed by 4 parts. The top, front and 2 sides.

The top edges are trimmed to allow the brick stripe fit in (red circle), and align it with no gap to the building.

Glue both side walls, keeping the edge of the top, aligned with the side walls exterior surface and the trim corner.(See Picture #7)

Between the both side walls insert the front wall and glued it.

Personally I left the dock unattached to the building, but if you want you may glued it.



**FIGURE #7– DOCK ASSEMBLY**

**Congratulations! Your building is complete!**

With your building now finished, you may opt to further enhance the structure using weathering techniques such as chalk or misting. Keep in mind weather runs from top to bottom and will be concentrated in areas where water may gather and run off, like around windows. Likewise, you may have weather “splash up” along the base. We will be posting tips on aging and weathering on our website in the near future.

If you have questions on construction or suggestions, please contact us by email at [riverleafmodels@gmail.com](mailto:riverleafmodels@gmail.com)

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