



# Whitby's Mill

HO-scale



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This kit is intended to be a recreation of the mill seen on Taylor Lake, belonging to the late, great John Allen's Gorre and Daphetid Railroad. I did take some creative liberties supplied by modern technology. It's called Whitby's Mill because it was John's middle name and it seemed like a good choice.

Supplied are the basic directions. For more tips and some additional instructions, please see [conowingomodels.com](http://www.conowingomodels.com). [http://www.gdlines.org/](http://www.gdlines.org) is THE resource on John Allen.

A few things to consider-

1. The backside of this mill is flat. We'd considered building a second half to it, but then it wouldn't be like John did it. So, it should probably go in the back of a non-G&D layout.
2. We used windows similar to what John used, but a little bigger and more modern looking. As a result, the interior will be more visible than it did on John's layout. You may consider adding window blinds and/or painting the interior a dark color.
3. The sluiceway was a lighter color. We did the same on our representation. However, I think in reality, the wood part of the building, derrick, waterwheel and sluiceway would probably be same color. We did include two lengths of the sluiceway, so use what

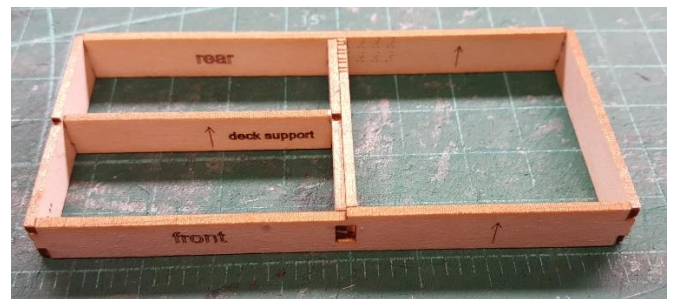
you need. If you're doing what John did, you should only need one.

## BUILDING

1. On the carrier for the aged clapboard, you will notice that the two pieces located above the curved sides of the mill. **Do not throw them away. They are formers for the roofline.**
2. Bracing (shown in green) Cross sections shown on top using the 1/8 stripwood. Ensure the vertical bracing goes to the bottom of the building pieces.



3. Cut and glue the 1/16 corner pieces (shown in purple) Cross sections on top
4. Trim the stripwood to line up with the roof



5. The base goes together as follows- Arrows facing up. Begin with the piece marked FRONT. **The photo above is a pilot model and only shown for clarity. Your pieces will have the left side building.**  
 Glue LEFT to the left  
 Glue DECK SUPPORT to the LEFT piece  
 Glue DECK SUPPORT REAR behind DECK SUPPORT  
 Glue REAR to the aft of the LEFT piece  
 Glue DECK RIGHT AND MILL LEFT together  
 Glue DECK RIGHT to the center of LEFT, fitting DECK SUPPORT and REAR into it  
 Glue MILL RIGHT to the FRONT and REAR PIECES  
 Ensure the shack and foundation are square and let dry.

6. Paint/stain – All parts as required. The doors and windows appear to have been either brown or grimy black. Glaze when dry. We used Hunterline Russet for the wood building and waterwheel. The rest is either covered in stone/brick paper or a hodgepodge of Hunterline products for aged wood effects.

7. Assemble the main building (wood mill). Pieces should fit together square.

8. It appears that John attempted to make “crushed rock” for the walkway and foundation. I think he used a mortar solution covered with cut pieces of plastic or possibly colored glass. This step and step 11 use new materials/methods in an attempt to provide a more realistic product.

Fit, cut and attach the rock paper to all sides of the foundation, ensuring that it is straight along the bottom. You can cut excess from the top. Be careful, there is an up orientation to the rock and bricks (next step). It has a slight shadow. I recommend adding a good bit of glue and clamping a flat piece of wood to each side.

I haven't tried it, but it may help to overlap the top of the foundation slightly. This will hopefully prevent a white seam from showing where the building will sit on top of the foundation. If you don't do the overlap, you might want to add either some weathering solution or diluted grey paint to the top to hide the seam when the glue is dry.

9. Once the foundation is dry, do the same glue/clamping procedure as above for the brick paper on the shack. Don't cut out the holes for the doors and windows yet. Only cover the exposed sides.

10. Once the glue has thoroughly dried on the brick building, cut out the holes for the door and walls.

11. Measure, cut and install flat stripwood from the front to the back for the decking. Be sure to leave a little spacing between the boards as the wood expands and contracts. Side-to-side will most likely not look appropriate.



12. Wheel Assembly- Carefully remove the paddles (circle with Ls on them) from the carrier and glue the two halves together, ensuring they match up. We've tried to strengthen them through repeated redesigns, but they may still be vulnerable to breakage. They glue back together easily, but it takes time to get it right.

13. Remove the outer portions of the wheel from their carrier and glue them to the paddles as shown below. Ensure the “spokes” line up with the tip of the paddles symmetrically.

14. Glue in place all doors and windows.

15. Glue the awnings to the top of the three windows on the brick building if you so choose to use them.

16. Read this step through before accomplishing it.

15A. Cut out the chipboard roof piece for the mill roof.

15B. Decide how you are going to use the roofline formers. You could use rubber bands to hold them in place or possibly make a jig using spare stripwood and then rubber bands or clamps. You want an even spread of the shaping from the formers.

15C. Glue down the roof piece, using the formers from step 1 to help form the proper shape. I used a slow-drying glue, such as Aleene's to give me more time. **Do not glue the formers in place!!**

17. Once the roof is dry, attach the cedar shingles to the roof of the main building.

18. Glue the mill to the top of the foundation. Overlap should be even on the front and rear sides. It should butt up against the shack side. You may choose to glue the two together.

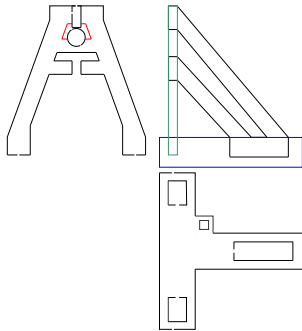
19. Trim and glue down the corrugated roofing.

20. Select the location you would like to install the lamp and cut a hole for it.

21. Because the wires on the lamp don't bend easy enough to properly conform to the underside, I'd recommend elevating the foundation (like 3-2-1

blocks) while you use some CA and something to hold the lamp vertical (perhaps a Third Hand) while you glue the lamp in place.

22. **Reference the photo listed on the last page for details regarding the following steps.**
23. Cut, lightly stain and glue flat stripwood to the area to the right of the window that is immediately above the water wheel. There is an area marked where the second window would have been.
24. It appears John used some stripwood to make the clapboards stick out on the main building. The stripwood pieces were darker than the rest of the building. If you so choose to include that, now would be a good time to add it.



25. Cut out and glue together the parts for the derrick, being cautious as to not break them. Attach the A frame to the T (bottom piece) and add the support.
26. Put the dowel through the water wheel, derrick and into the hole in the building. It doesn't need to be glued together. However, if you do decide that it will be stationary, I'd recommend only gluing the dowel to the derrick until **AFTER** the sluice is in place. This will allow you to find the right position for all the pieces. Additionally, the dowel shouldn't stick out beyond the derrick.
27. Cut and glue on any desired flat pieces of stripwood to detail the derrick.
28. Cut out and glue together the three pieces of the sluice in a U-shape. Because we have the technology (Six Million Dollar Man reference) we cut nail holes in the sluice pieces. John's didn't have them. Should you so desire to use them, the engraved nail hole sides should be positioned so they are visible when looking at the mill. Feel free to cut the size of the sides down to match John's model.
29. Form the sluice support utilizing the 1/16 stripwood. Cut one piece so it will fit in the hole in the building, under the sluice and glue it to the vertical support beam. There is also a cut out in the derrick base to hold the vertical support beam.
30. Please share your completed photos on <https://www.facebook.com/ConowingoModels/>

If there are any parts missing, please e-mail me what you need to complete the kit and I'll send it your way. Suggestions for improvement are always welcome.

See the Conowingo Models website [www.conowingomodels.com](http://www.conowingomodels.com) for more exciting, funky buildings for your model railroad!

Many thanks to Jeff Grove, Steve Milley and Mark Schreier for their support! I apologize for not crediting the photographer of the photo on the next page.

