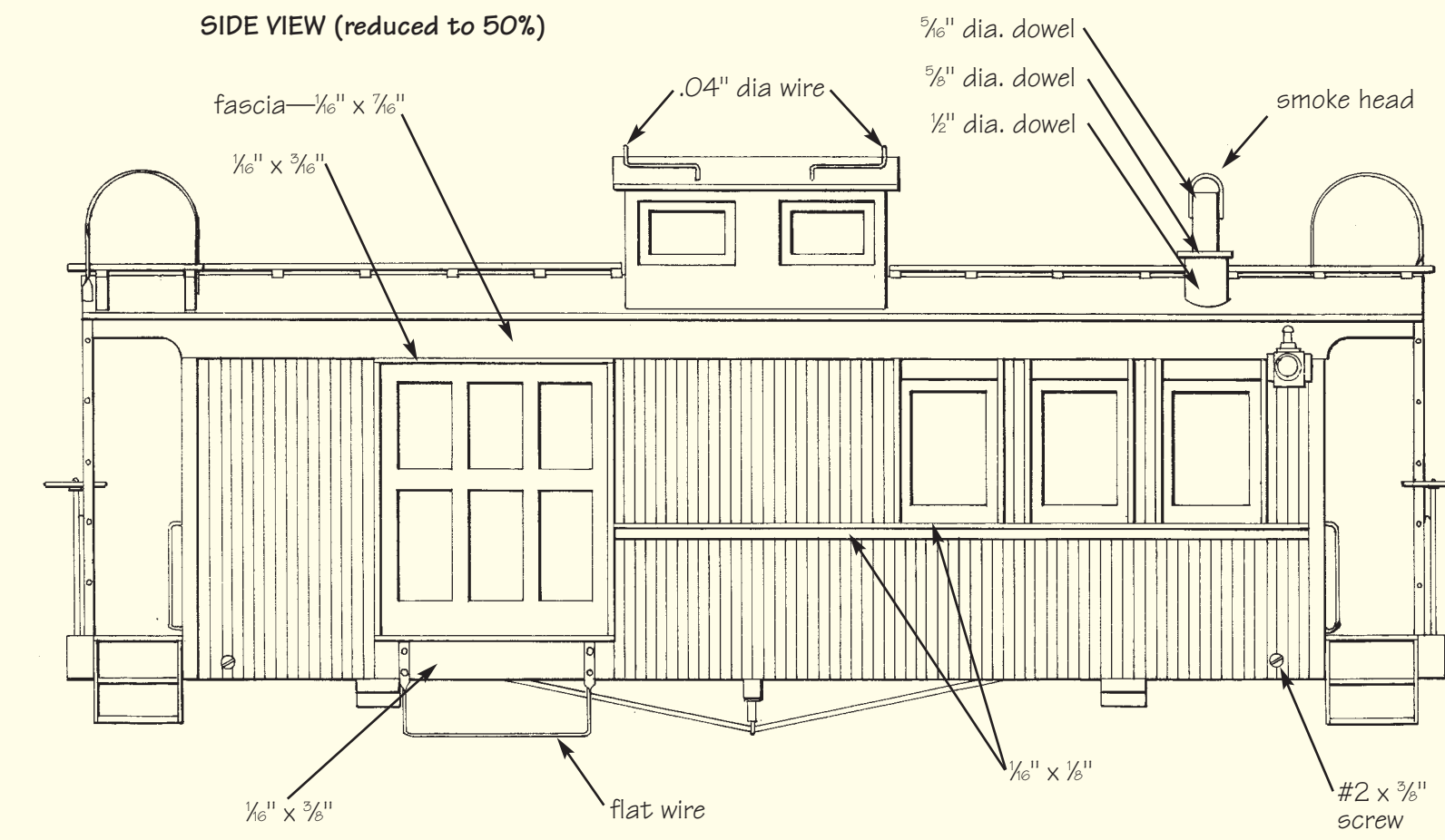
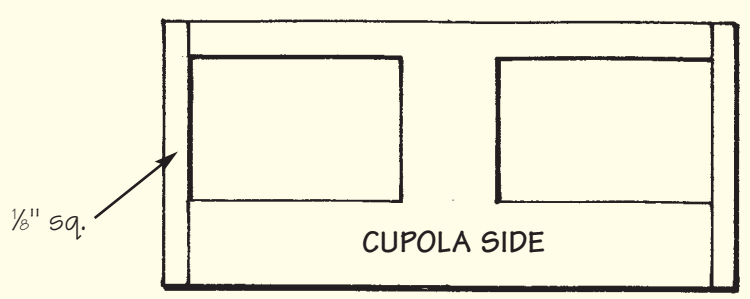
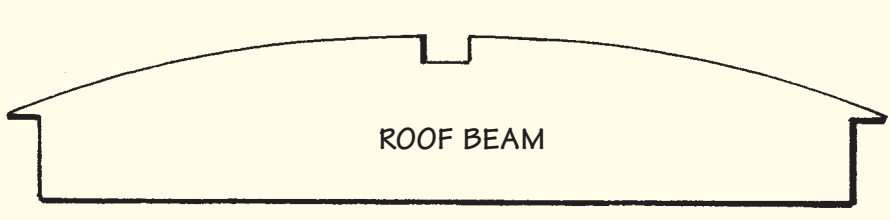
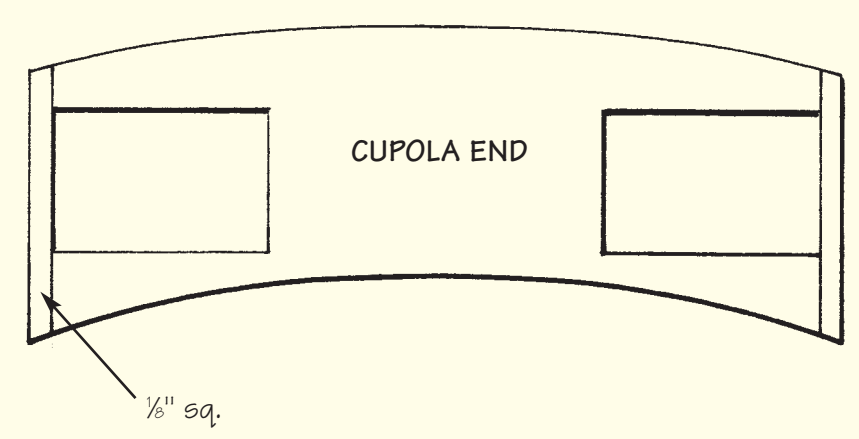


# 1:20.3 scale drovers' caboose

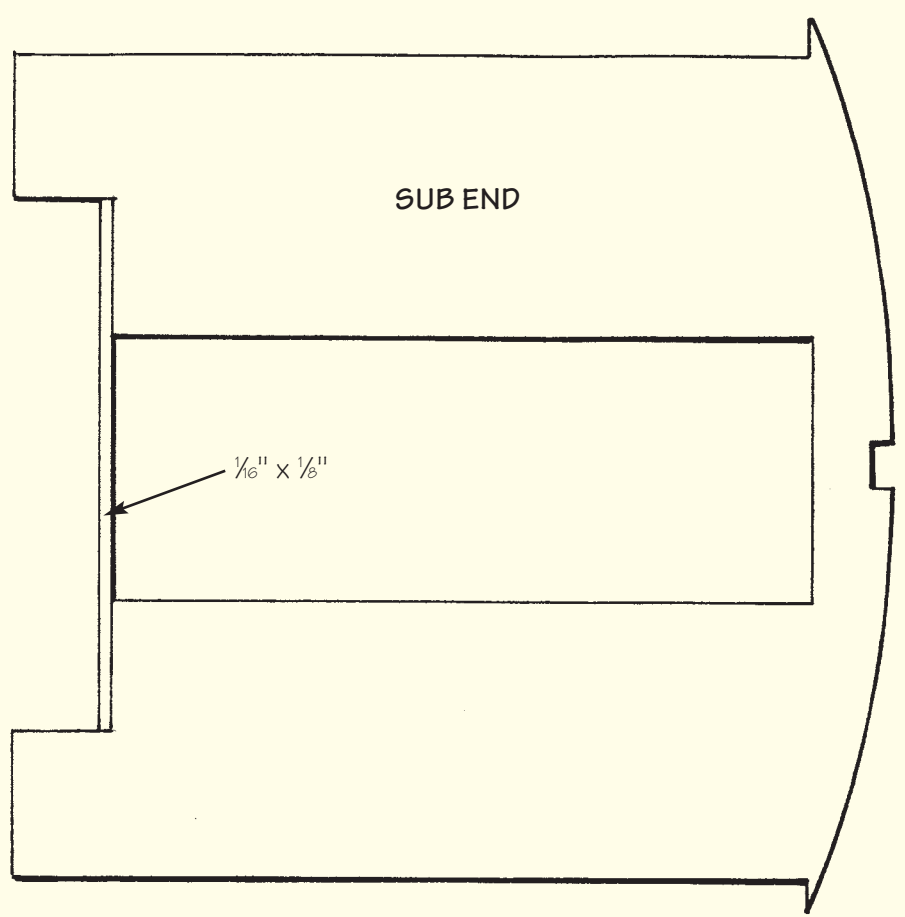
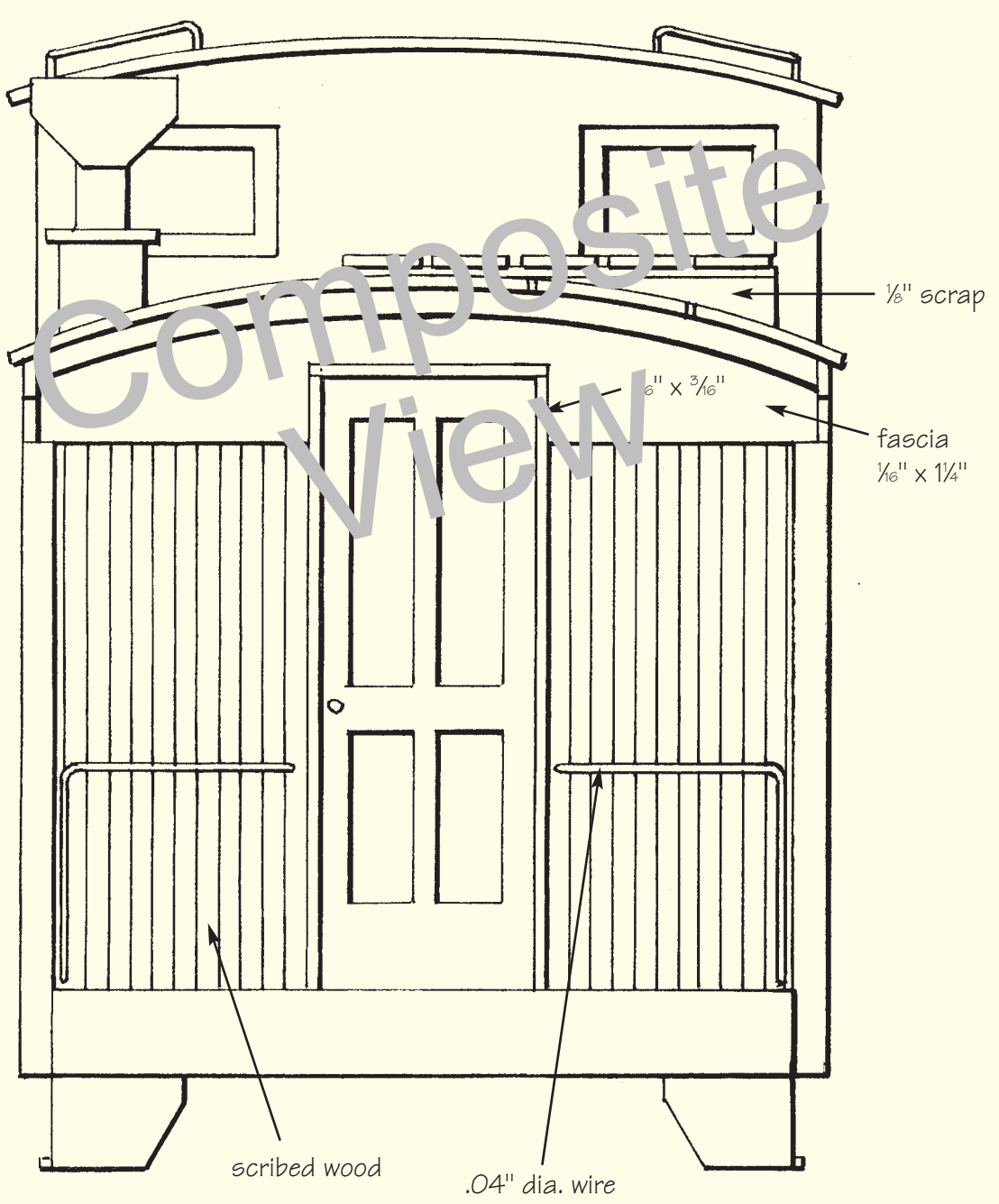
by Ted Stinson | Wiscasset, Maine



**NOTE:** This side view is printed at 50% (half) of full size. It must be enlarged to 200% to be actual size. This can be done on a copy machine or at a copy shop, such as Kinko's.



END VIEW



This is a generic, 1:20.3-scale drovers' caboose. When cowboys drove their herds to the railhead, they would often need to travel with them to market. The drovers' caboose was their transport. Many short lines and, in particular, narrow-gauge railroads with sharp curves, had a need for shorter cars like this one, which scales out to 26' in length and about 8' wide.

**Construction**

Begin construction with the frame. Cut a piece of 1/8" ply, 4 1/4" x 15 1/2". Notch the ends per the plan. On what will become the bottom side, add the stripwood framing as per the drawing. Drill holes for the truss rods, which are made from 1/16"-diameter rod. Add the planking to the top surface of the floor. Finally, cut, fit, and glue the end beams in place. Make the steps from stripwood and heavy cardstock. The card can be sealed with thin CA cement. Handrails and brake-wheel can be added later, when the car is more complete.

Now make the box substructure. Use 1/8"-thick plywood for the subsides and subends. Cut the roof beams from 1/8" stock (balsa will do nicely). Assemble the substructure according to the detail. This should just fit over the previously assembled frame.

When the substructure is assembled to your satisfaction, surface the exterior with stripwood and scribed wood as shown on the drawings. Begin by adding the 1/16" fascia to the ends, followed by the 1/16" x 1/16" stripwood in the door openings (see plan). Doors are glued to the back of this stripwood surround. Do not add the clear plastic glazing until the car has been painted. Add the roof, using 1/8" sheet. Now fit and glue the cupola in place. Add the roof to the cupola.

Make the doors and windows per the plan. Fit and glue the windows in place in both the main car and the cupola. Add the 1/16" x 1/16" stripwood to the windows in the main car. Fit and glue 1/16" x 1/16" stripwood in the door openings (see plan). Doors are glued to the back of this stripwood surround. Do not add the clear plastic glazing until the car has been painted. Add the roof, using 1/8" sheet. Now fit and glue the cupola in place. Add the roof to the cupola.

At this point, seal the car body with clear lacquer, sanded lightly after it dries. Now, using Rustoleum, Krylon, or Ace Hardware's house brand of red spray primer, apply two light coats of paint. Allow to dry 48 hours before handling. The bottom of the car can be brush painted flat black.

All details added from this point should be pre-painted before gluing in place. Begin with the roofwalk, then do the metal parts, such as grab irons, etc. Finally, add the ladders. These are glued to the roof and just rest on the floor, behind the rail. Add lettering of your choice, then trucks and couplers, and you are finished.

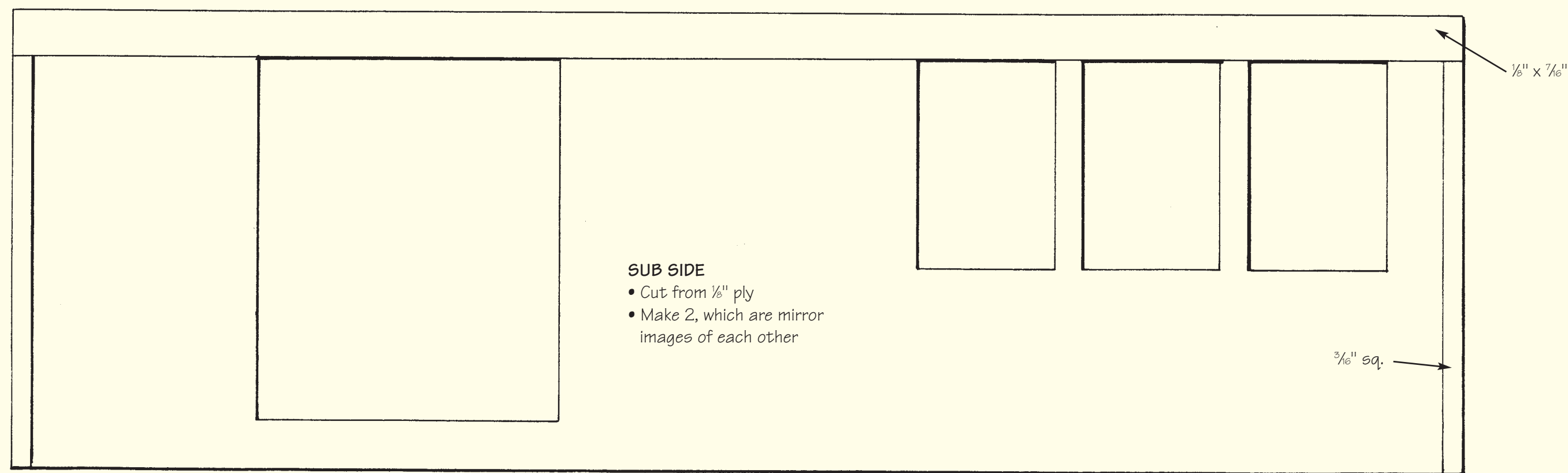
... This sheet is a supplement to the June 2005 issue of *Garden Railways* magazine. While supplies last, extra copies of these drawings can be had by sending \$1.50 per set (\$2.00 foreign) to: Sidestreet Bannerworks, PO Box 460222, Denver CO 80246 USA. A complete list of available plans can be found at [www.sidestreet.info](http://www.sidestreet.info), or send a stamped, self-addressed envelope to the above address.

Northeast Narrow Gauge offers a kit for the drovers' caboose (including laser-cut window and door frames) for \$75 + \$7 s&h. Order from Northeast Narrow Gauge, PO Box 191, Wiscasset ME 04578. Web site: [www.nemodel.com](http://www.nemodel.com)

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**Are you working in a different scale?**

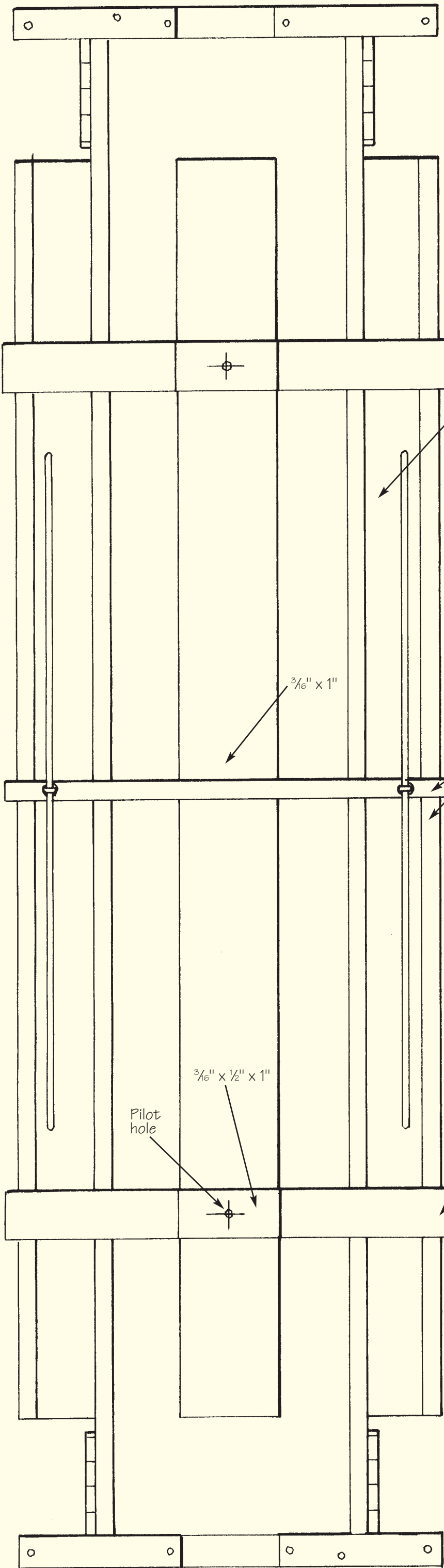
- If you are working in 1:32 scale, reduce these drawings to 63%.
- If you are working in 1:29 scale, reduce these drawings to 70%.
- If you are working in 1:24 scale, reduce these drawings to 88%.
- If you are working in 1:22.5 scale, reduce these drawings to 90%.
- If you are working in 16mm scale, enlarge these drawings to 107%.
- If you are working in 1:13.7 (1/2") scale, enlarge these drawings to 148%.



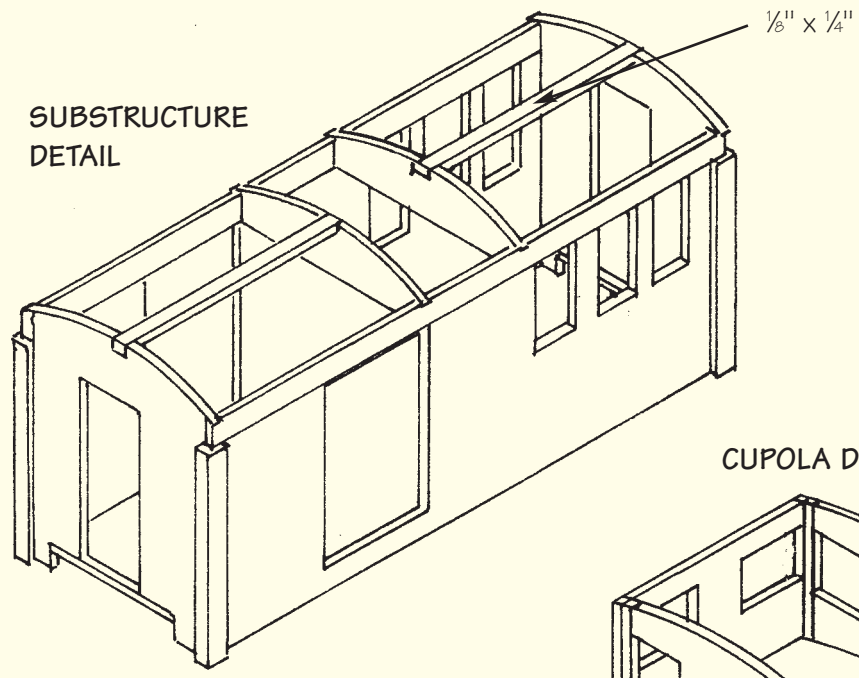
**SUB SIDE**

- Cut from 1/8" ply
- Make 2, which are mirror images of each other

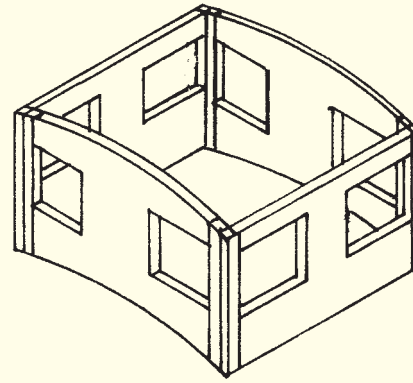
BOTTOM VIEW



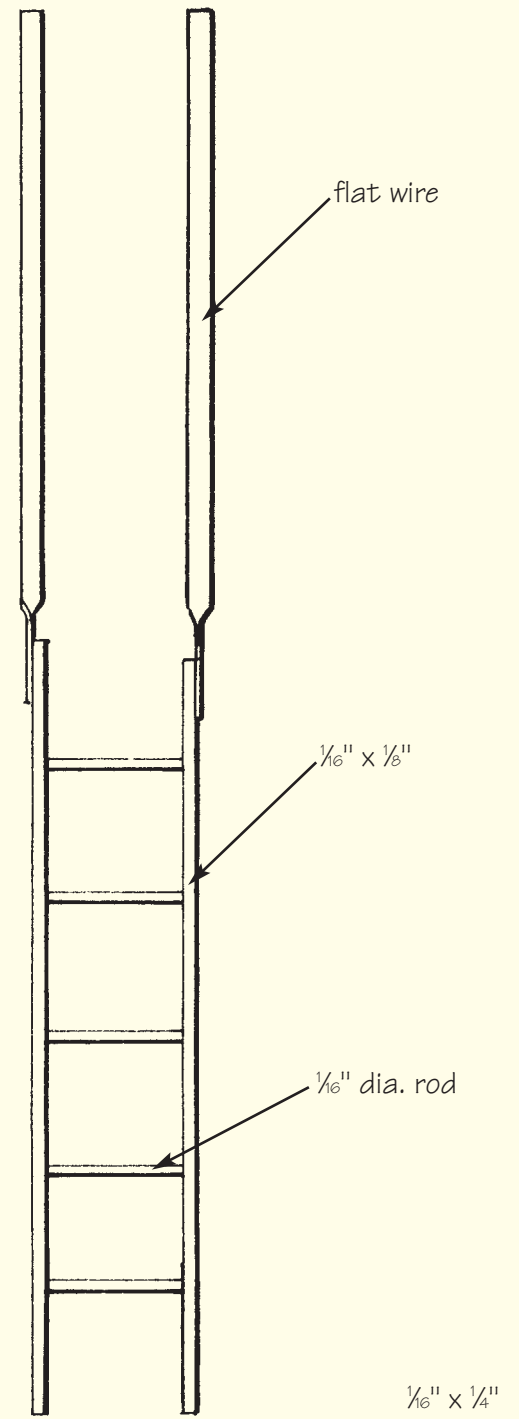
SUBSTRUCTURE DETAIL



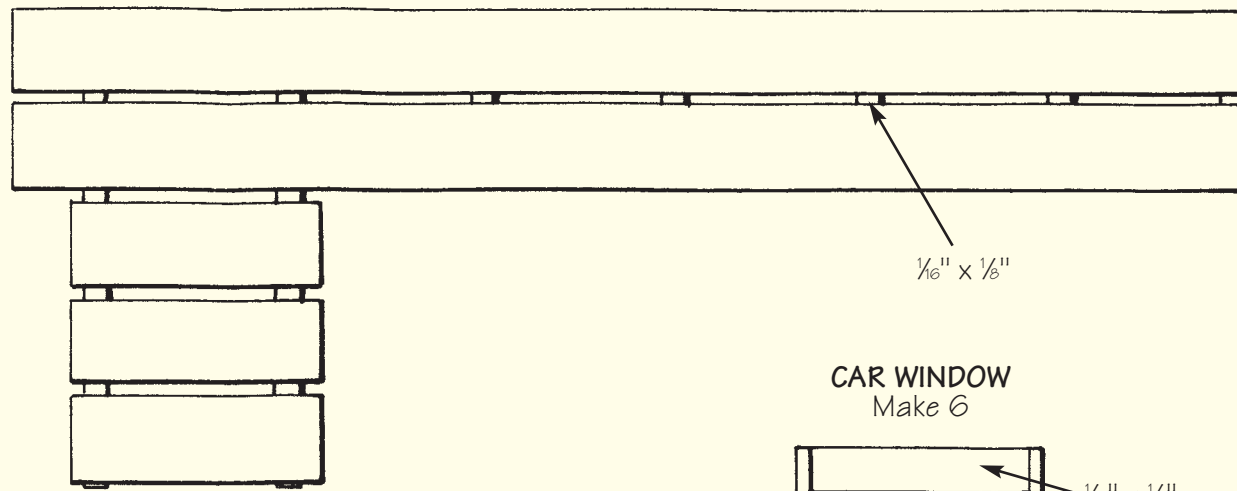
CUPOLA DETAIL



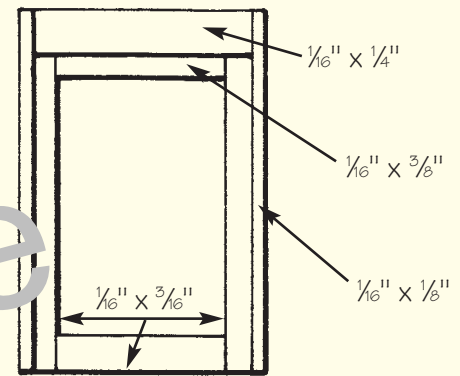
LADDER



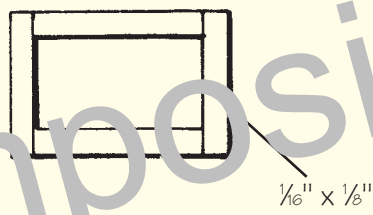
ROOF WALK  
Make 2 from  $\frac{1}{8}$ " x  $\frac{7}{8}$ "



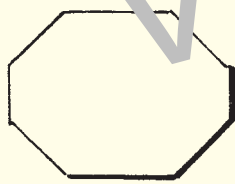
CAR WINDOW  
Make 6



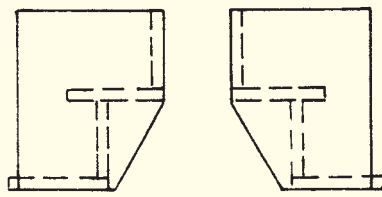
CUPOLA WINDOW  
Make 8



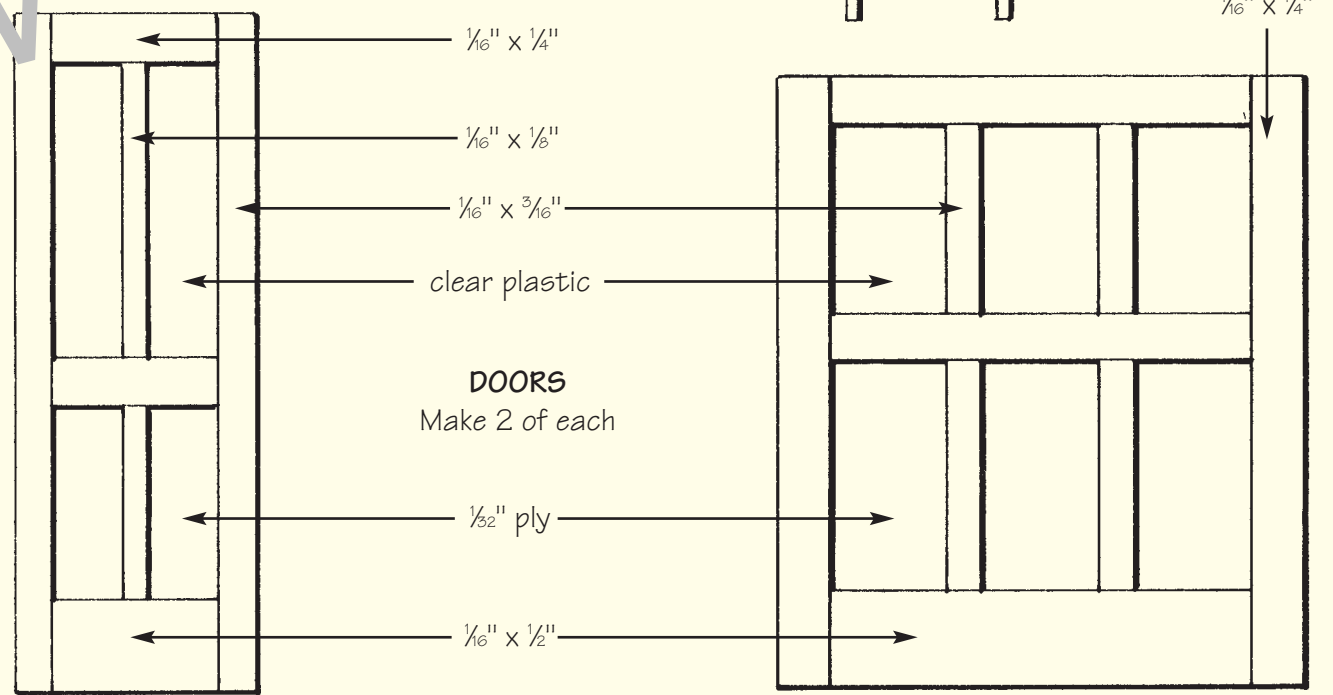
SMOKE HEAD  
Make from cardstock



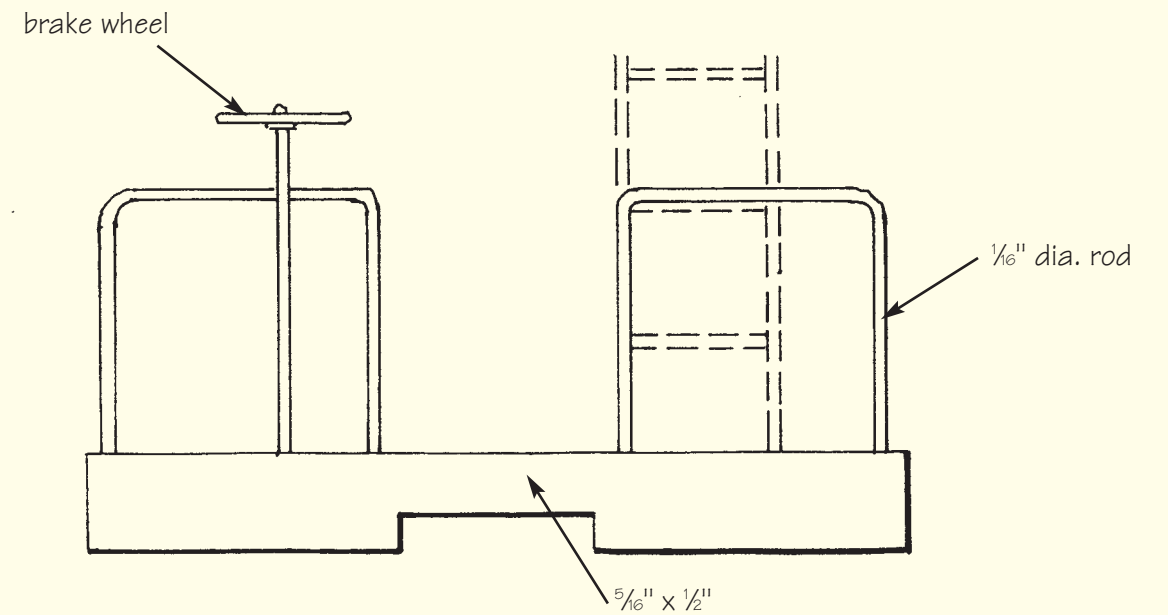
STEP DETAIL  
CARDSTOCK SIDE



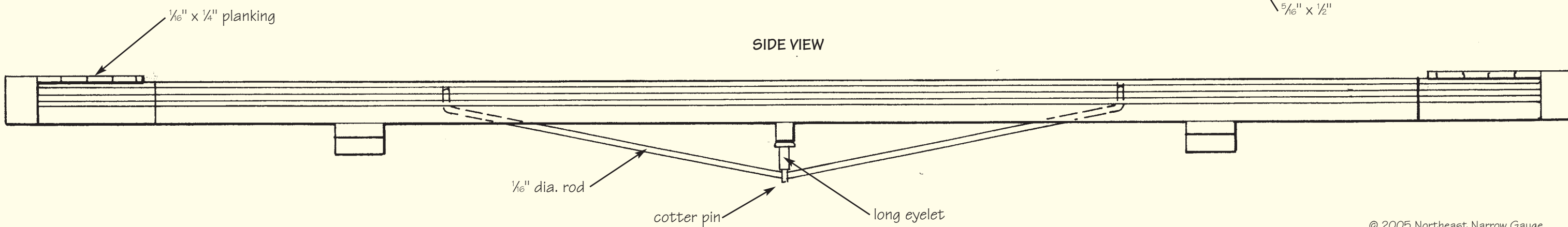
DOORS  
Make 2 of each



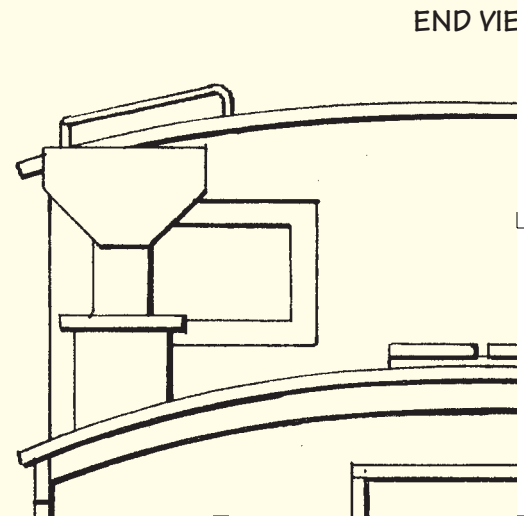
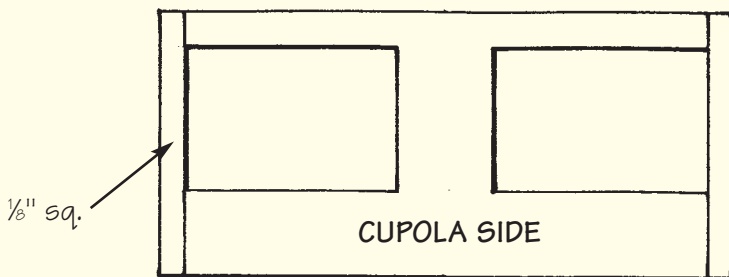
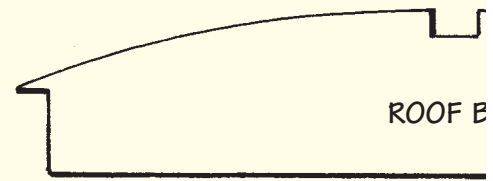
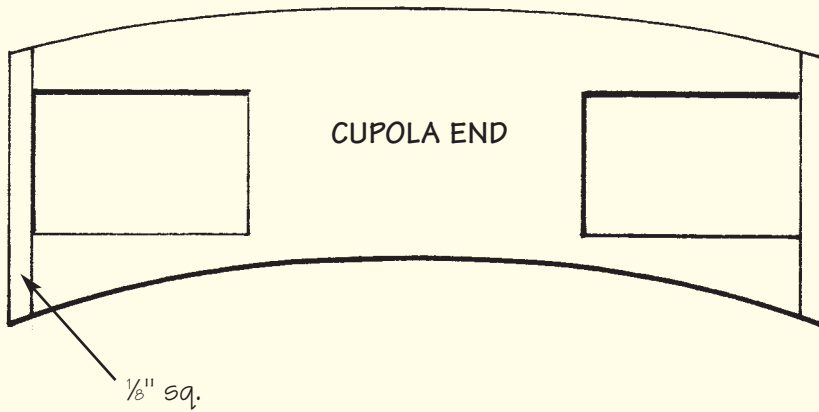
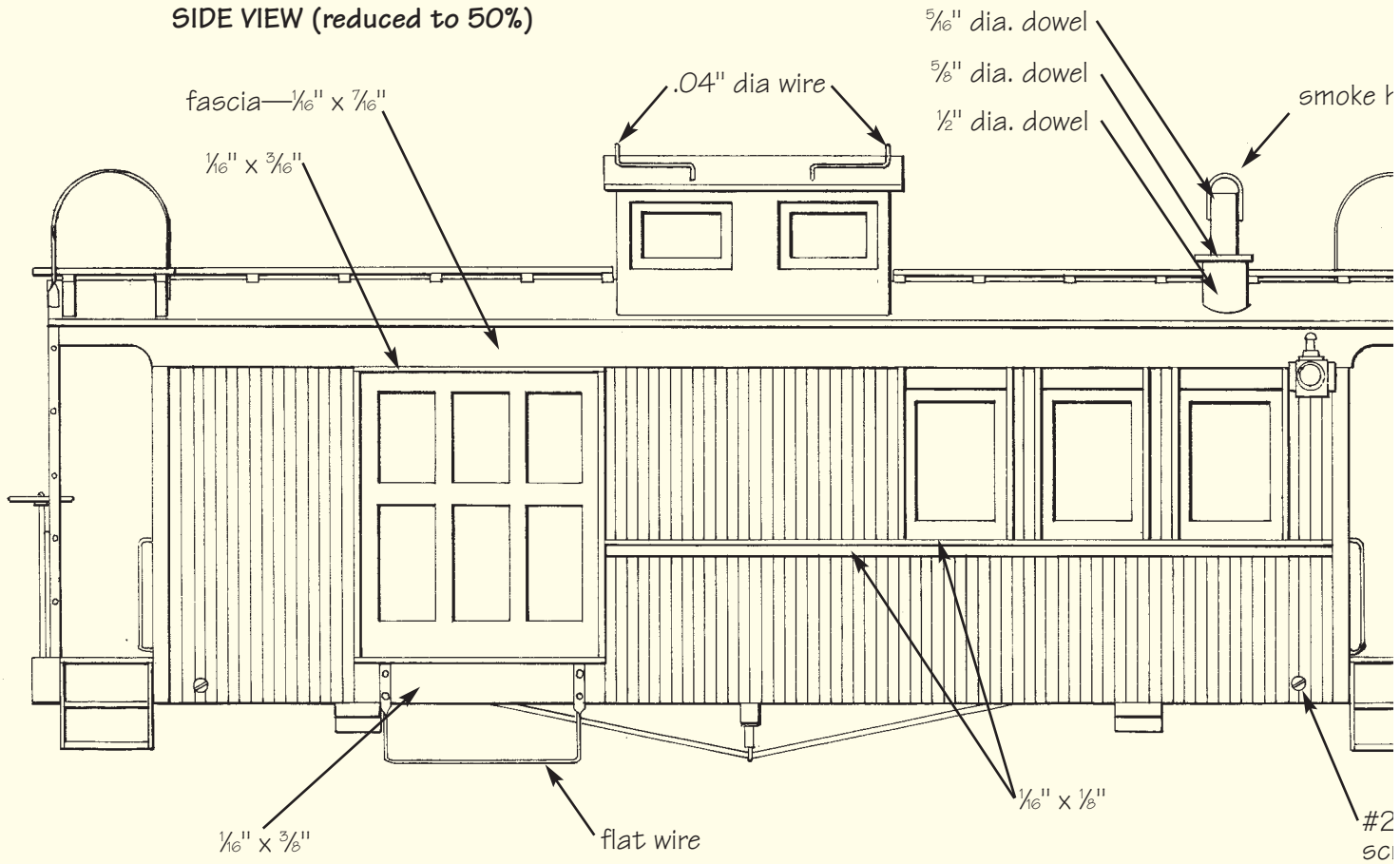
END BEAM

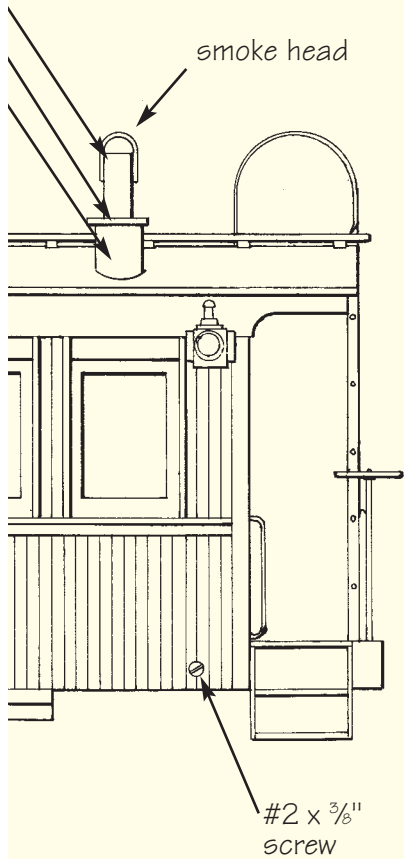


SIDE VIEW

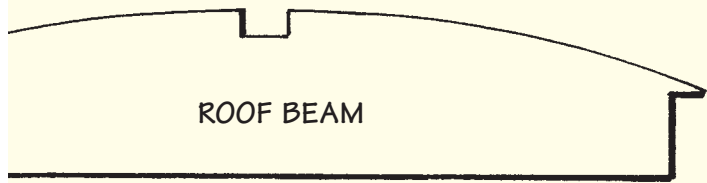


SIDE VIEW (reduced to 50%)

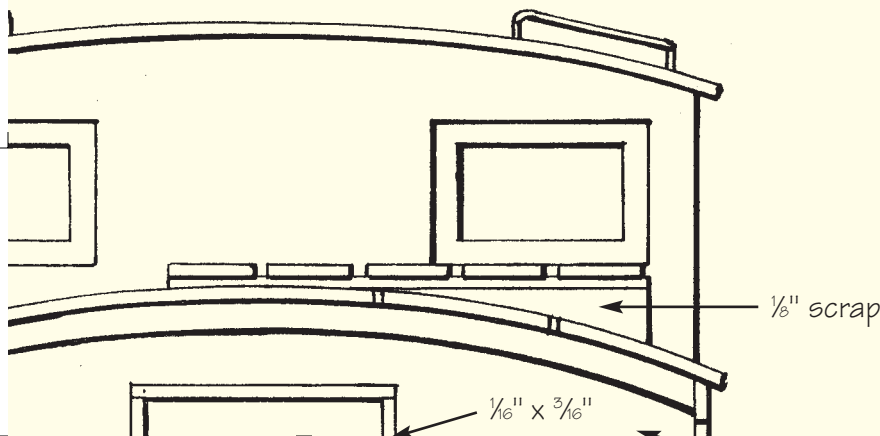




**NOTE:** This side view is printed at 50% (half) of full size. It must be enlarged to 200% to be actual size. This can be done on a copy machine or at a copy shop, such as Kinko's.



END VIEW



# 1:20.3 scale drovers' caboose

by Ted Stinson | Wiscasset, Maine

This is a generic, 1:20.3-scale drovers' caboose. When drovers drove their herds to the railhead, they would often need a place to sleep and eat. The drovers' caboose was their tool for the job. Many short lines and, in particular, narrow-gauge railroads with tight curves, had a need for shorter cars like this one, which scaled to 26' in length and about 8' wide.

### Construction

Begin construction with the frame. Cut a piece of 1/4" plywood 15 7/8". Notch the ends per the plan. On what will become the top surface, add the stripwood framing as per the drawing. Drill holes for the truss rods, which are made from 1/16"-diameter rod. Add them to the top surface of the floor. Finally, cut, fit, and glue the side beams in place. Make the steps from stripwood and heavy cardboard. The card can be sealed with thin CA cement. Handrails and a wheel can be added later, when the car is more complete.

Now make the box substructure. Use 1/8"-thick plywood for the sides and subends. Cut the roof beams from 1/8" stock (cut to fit). Assemble the substructure according to the drawing. It should just fit over the previously assembled frame.

When the substructure is assembled to your satisfaction, surface the exterior with stripwood and scribed wood as shown on the drawing. Begin by adding the 1/16" fascia to the ends, followed by the 1/16" fascia on the sides. Now surface the ends and sides with 1/32" 1/8"-spaced scribed wood.

Make the doors and windows per the plan. Fit and glue the door and window sills in place in both the main car and the cupola. Add the stripwood to the windows in the main car. Fit and glue 1/8" stripwood in the door openings (see plan). Doors are glued to the back of this stripwood surround. Do not add the clear plastic until the car has been painted. Add the roof, using 1/16" sheet. Fit and glue the cupola in place. Add the roof to the cupola.

At this point, seal the car body with clear lacquer, sand it, and after it dries. Now, using Rustoleum, Krylon, or Ace Hardware brand of red spray primer, apply two light coats of paint. Let it dry 48 hours before handling. The bottom of the car can be painted flat black.

All details added from this point should be prepainted before being glued in place. Begin with the roofwalk, then do the metal parts like grab irons, etc. Finally, add the ladders. These are glued to the side and just rest on the floor, behind the rail. Add lettering of your choice for the trucks and couplers, and you are finished.

\*\*\*

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## Plan set #71

# le boose

## isset, Maine

le drovers' caboose. When cowboys  
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rovers' caboose was their transport.  
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in CA cement. Handrails and brake-  
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Add the roof, using  $\frac{1}{16}$ " sheet. Now  
. Add the roof to the cupola.

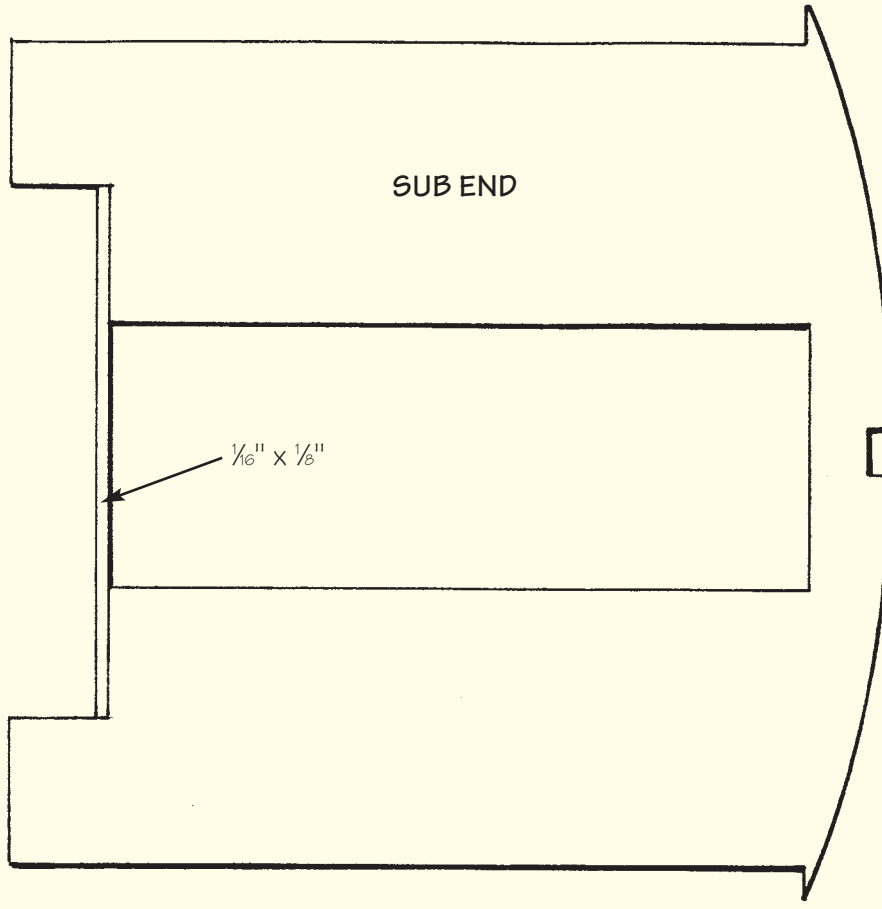
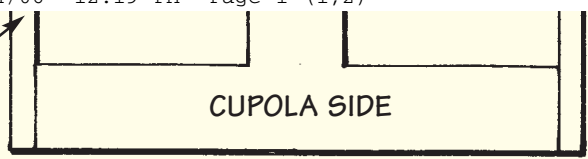
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y two light coats of paint. Allow to  
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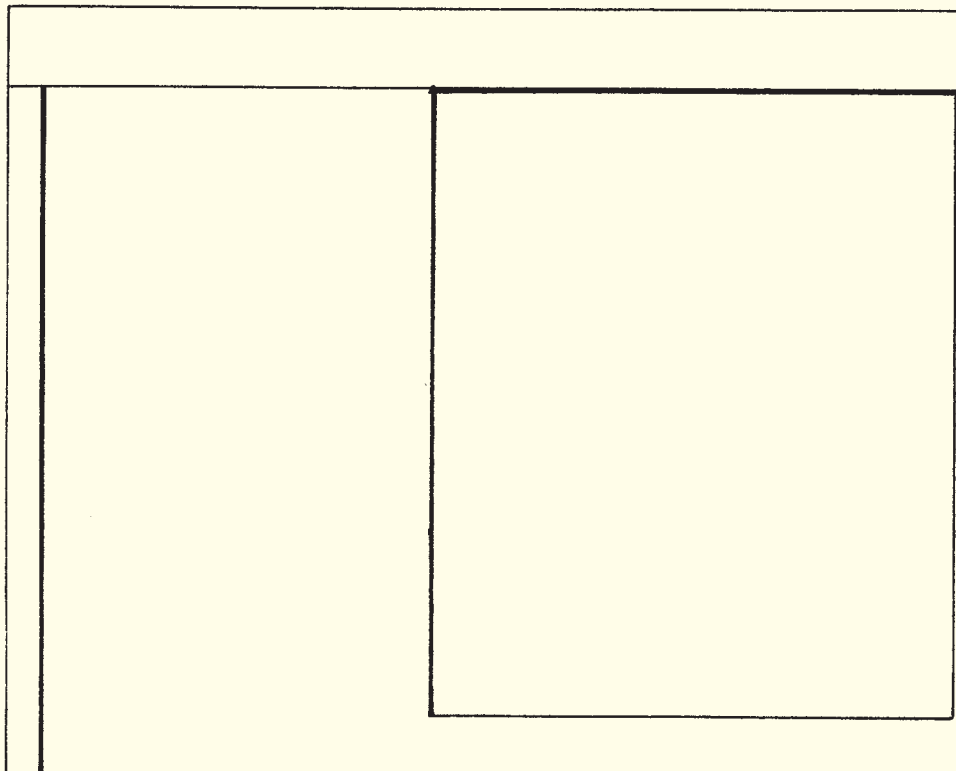
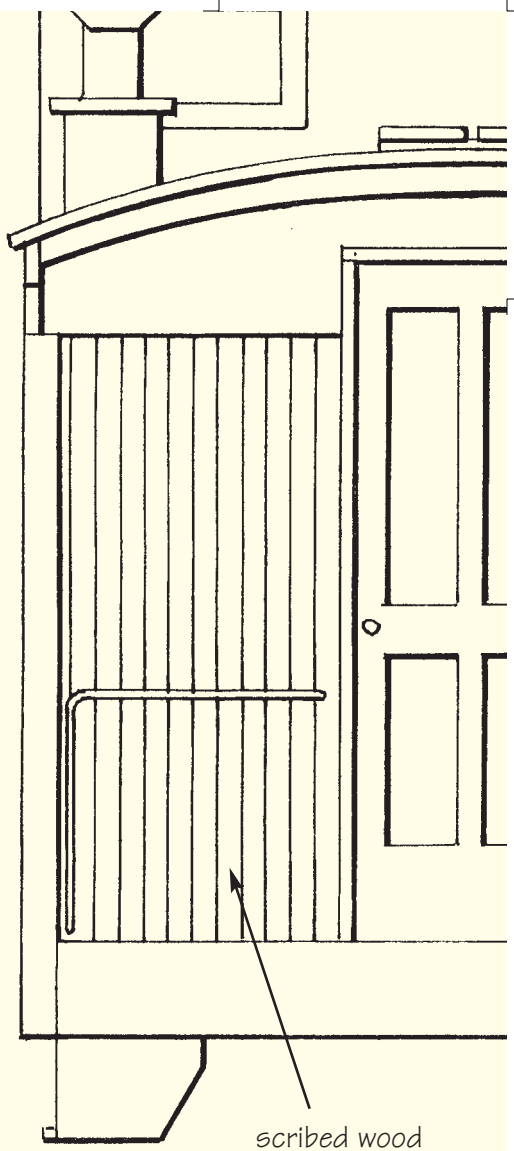
\* \* \*

t to the June 2005 issue of *Garden*  
plies last, extra copies of these draw-  
0 per set (\$2.00 foreign) to: Sidestreet  
Denver CO 80246 USA. A complete list

$\frac{1}{8}$ " sq.

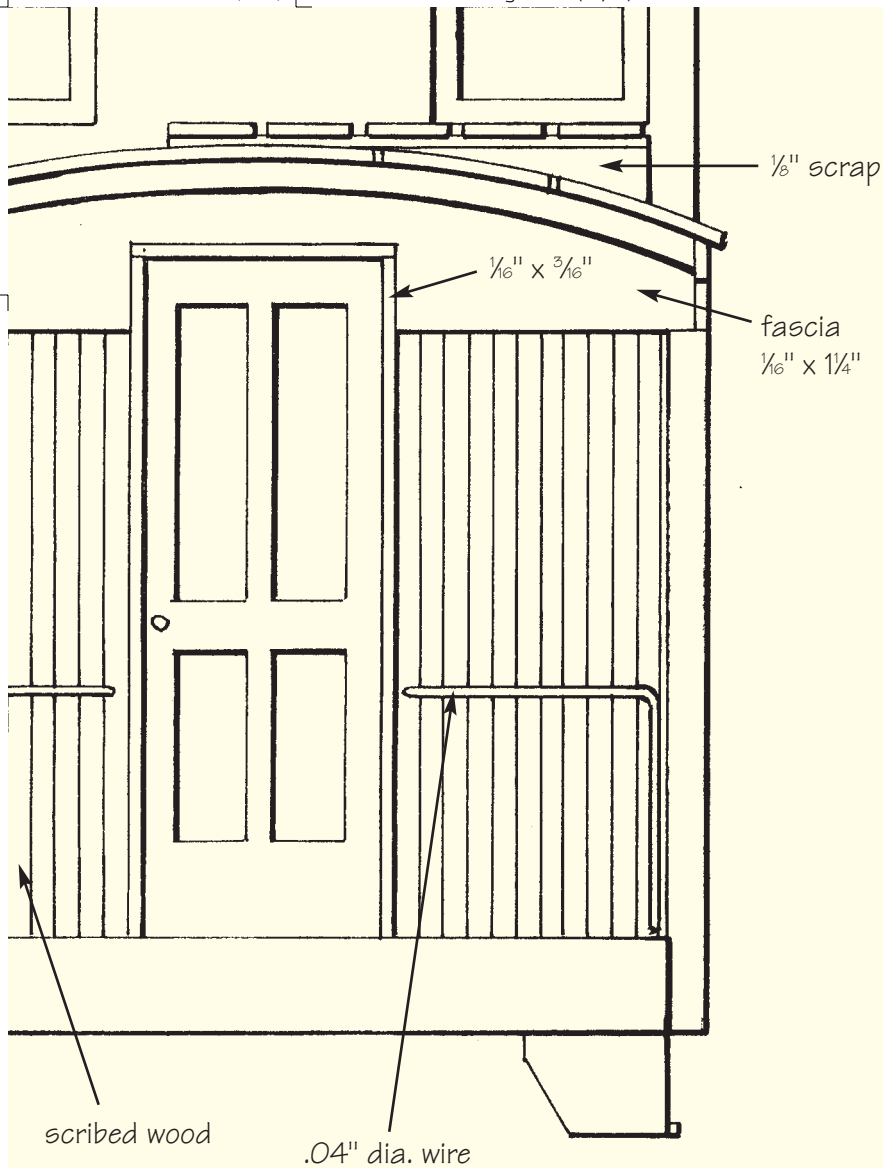


$\frac{1}{16}$ " x  $\frac{1}{8}$ "



**SUB SIDE**

- Cut from  $\frac{1}{8}$ " ply
- Make 2, which are mirror images of each other



grab irons, etc. Finally, add the ladders. These are glued to the just rest on the floor, behind the rail. Add lettering of you then trucks and couplers, and you are finished.

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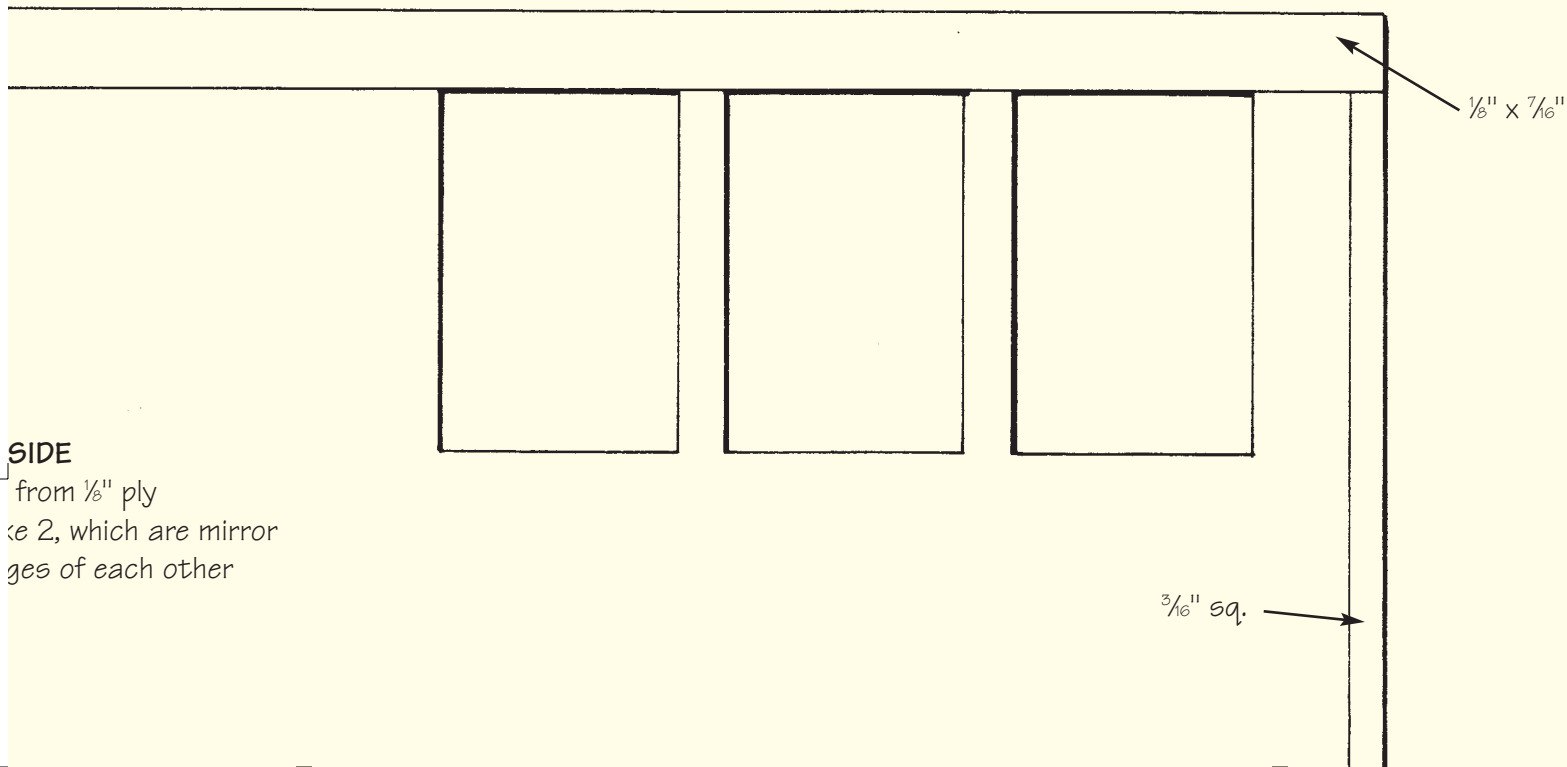
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Northeast Narrow Gauge offers a kit for the drovers' door (including laser-cut window and door frames) for \$75 + shipping. Order from Northeast Narrow Gauge, PO Box 191, Wisconsin 5304578. Web site: [www.nemodel.com](http://www.nemodel.com)

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### Are you working in a different scale?

If you are working in **1:32 scale**, reduce these drawings to 1/2 size.  
 If you are working in **1:29 scale**, reduce these drawings to 3/4 size.  
 If you are working in **1:24 scale**, reduce these drawings to 2/3 size.  
 If you are working in **1:22.5 scale**, reduce these drawings to 5/8 size.  
 If you are working in **16mm scale**, enlarge these drawings to 1.5 times.  
 If you are working in **1:13.7 (7/16") scale**, enlarge these drawings to 2 times.



adders. These are glued to the roof and the rail. Add lettering of your choice, you are finished.

\* \* \*

t to the June 2005 issue of *Garden* plies last, extra copies of these drawings per set (\$2.00 foreign) to: Sidestreet Denver CO 80246 USA. A complete list id at [www.sidestreet.info](http://www.sidestreet.info), or send a ope to the above address.

offers a kit for the drovers' caboose (nd door frames) for \$75 + \$7 s&h. Gauge, PO Box 191, Wiscasset ME [l.com](http://www.sidestreet.com)

and Northeast Narrow Gauge. These by individual modelers for their own commercial use or for distribution is sent from the publisher.

## at a different scale?

**1/8" scale**, reduce these drawings to 63%.

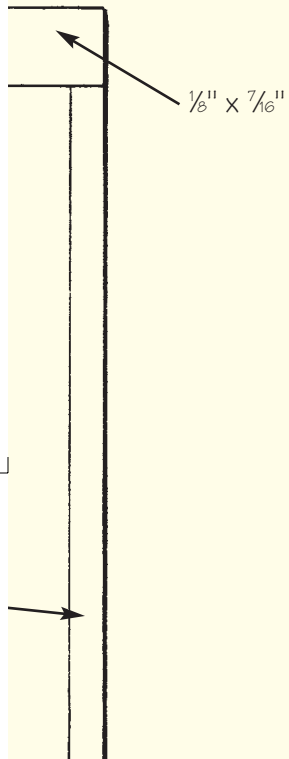
**1/4" scale**, reduce these drawings to 70%.

**3/8" scale**, reduce these drawings to 88%.

**1/2" scale**, reduce these drawings to 90%.

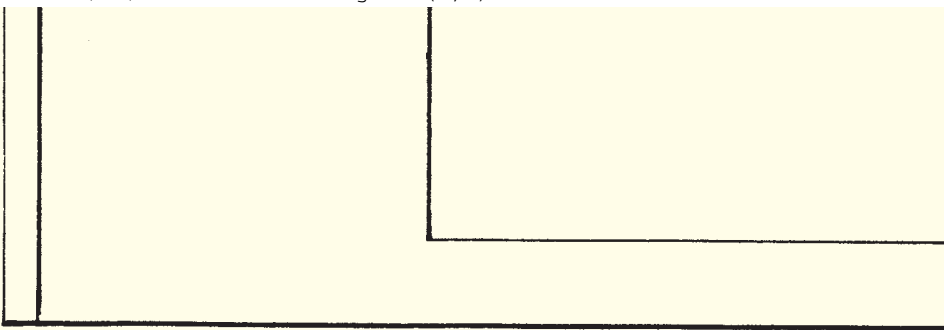
**5/8" scale**, enlarge these drawings to 107%.

**1" scale**, enlarge these drawings to 148%.



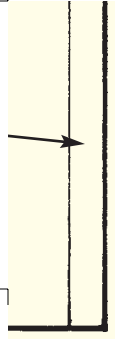


- Cut from  $\frac{1}{8}$ " ply
- Make 2, which are mirror images of each other



from 1/8" ply  
ce 2, which are mirror  
ges of each other

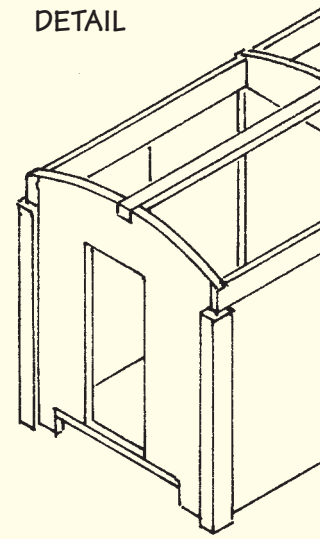
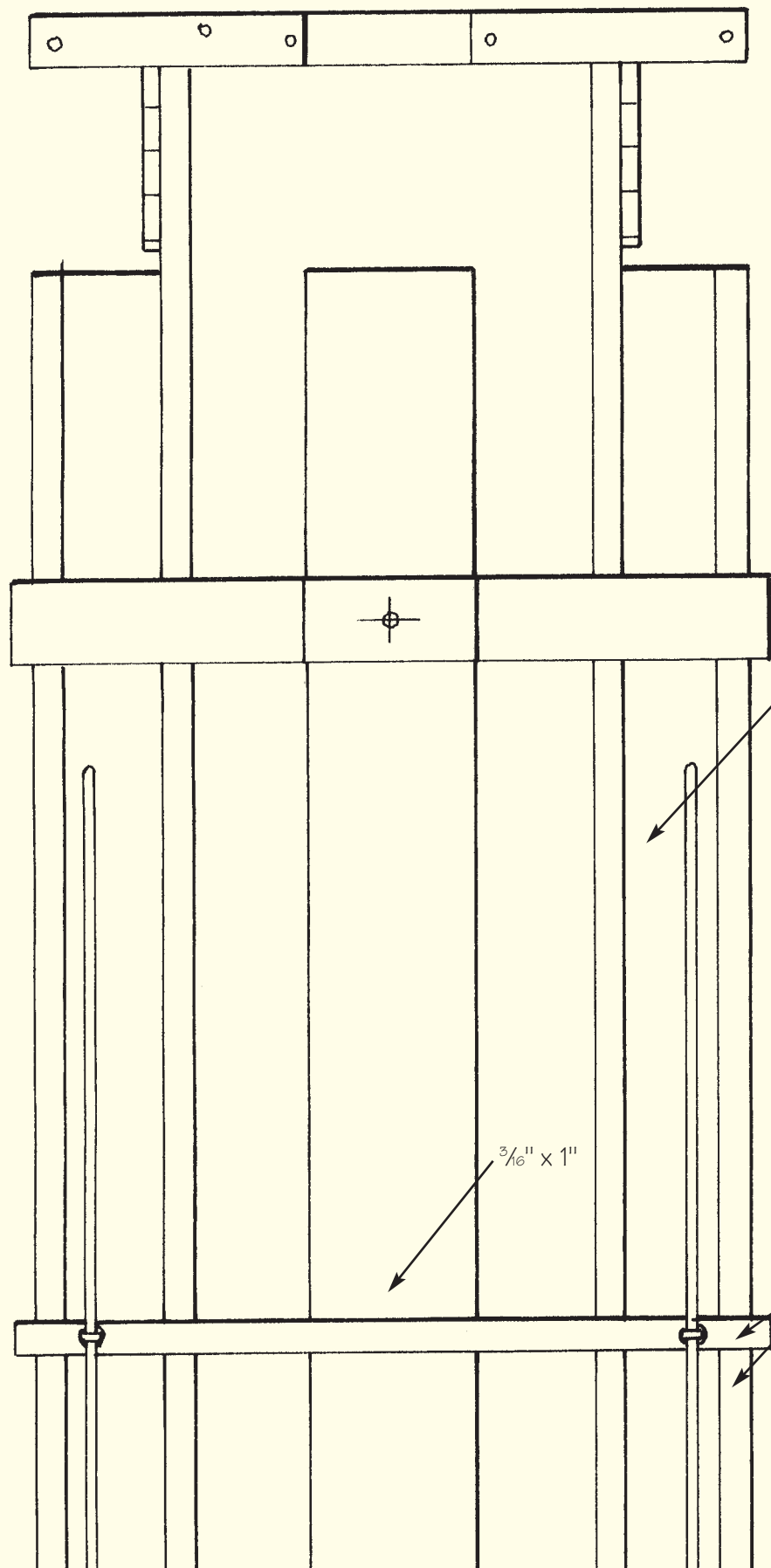
3/16" sq. →



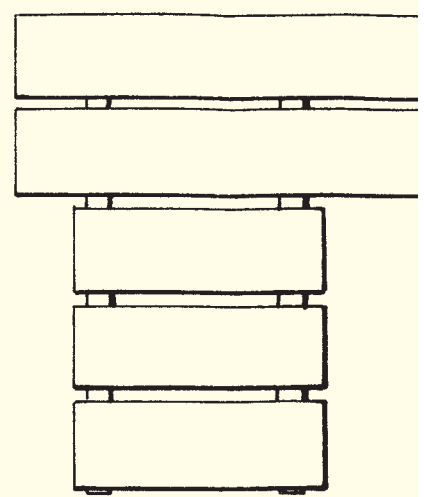
© 2005 Northeast Narrow Gauge

BOTTOM VIEW

SUBSTRUCTURE  
DETAIL



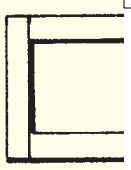
$\frac{1}{4}$ " x  $4\frac{1}{4}$ " x  $15\frac{1}{2}$ "  
ply—notch ends for  
steps, per plan



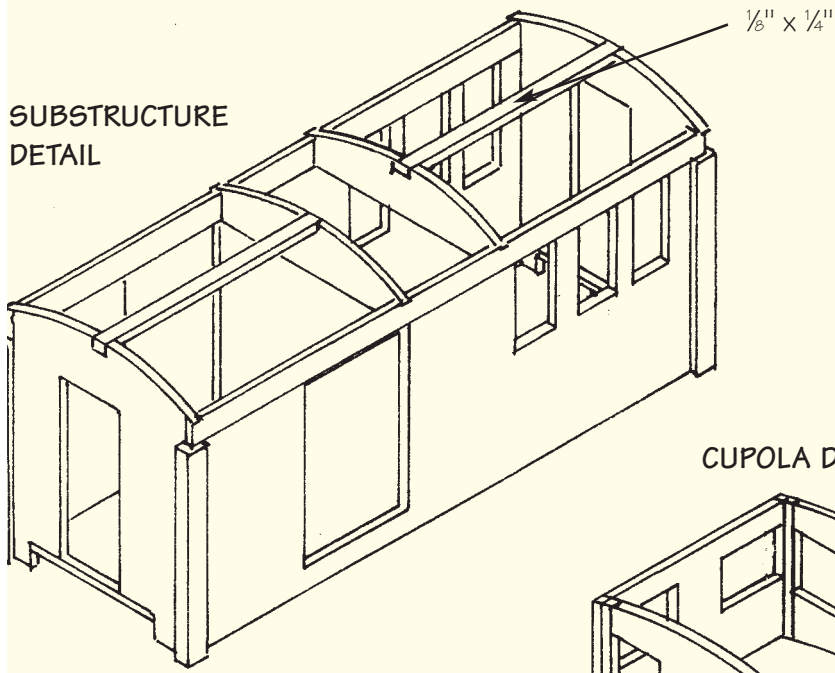
$\frac{3}{16}$ " x 1"

$\frac{3}{16}$ " sq.

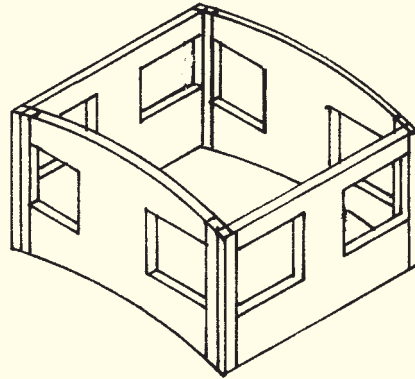
CUPOLA V  
Mak



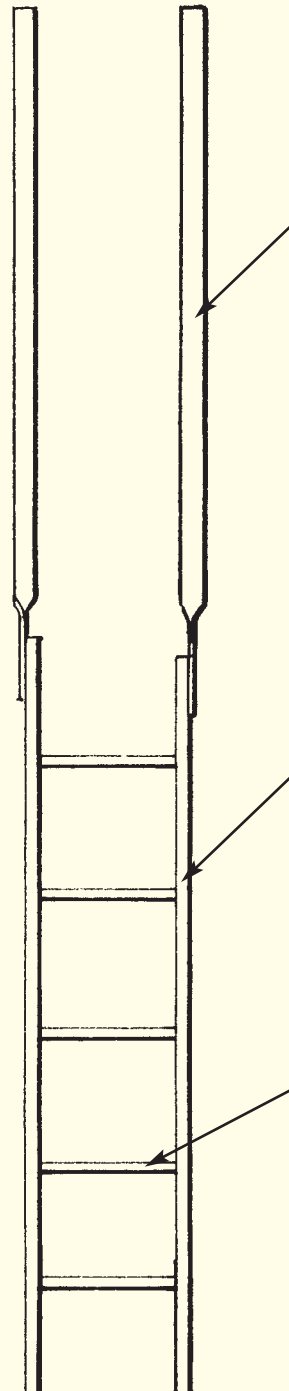
SUBSTRUCTURE  
DETAIL



CUPOLA DETAIL

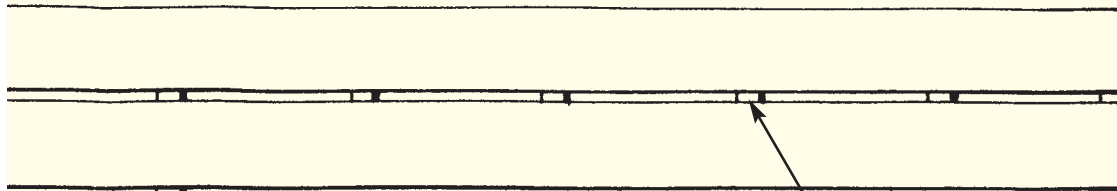


LADDER



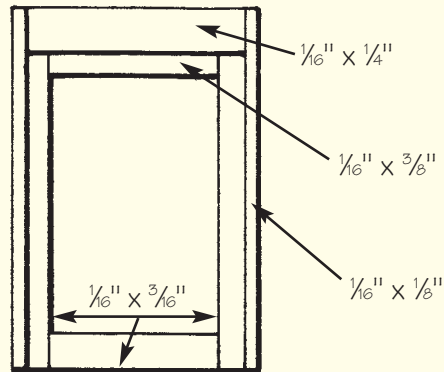
ds for

ROOF WALK  
Make 2 from  $\frac{1}{16}'' \times \frac{7}{16}''$

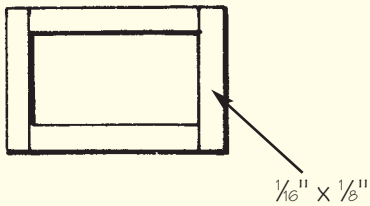


$\frac{1}{16}'' \times \frac{1}{8}''$

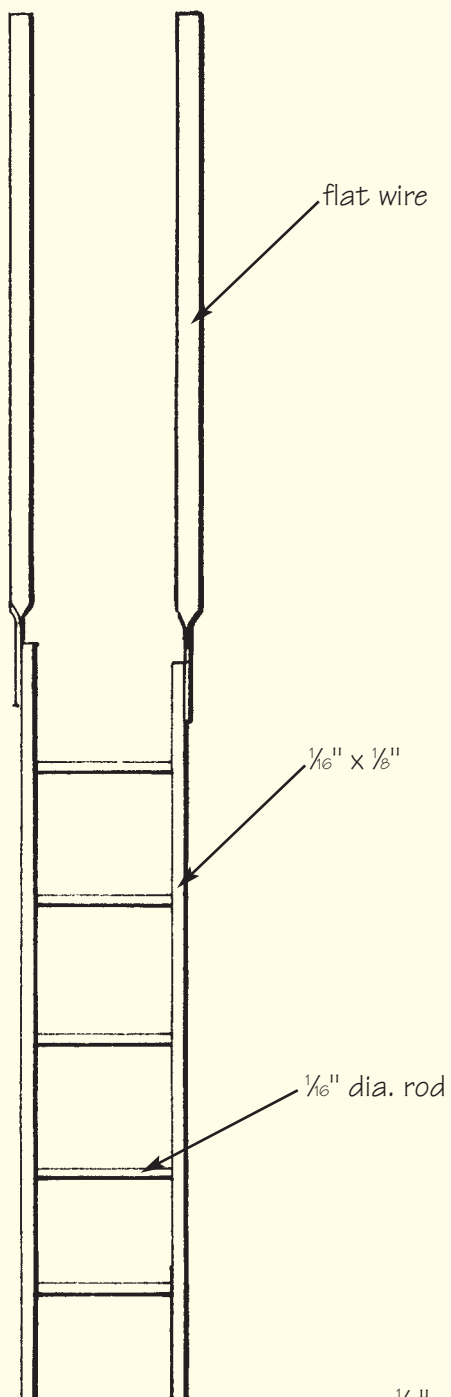
CAR WINDOW  
Make 6

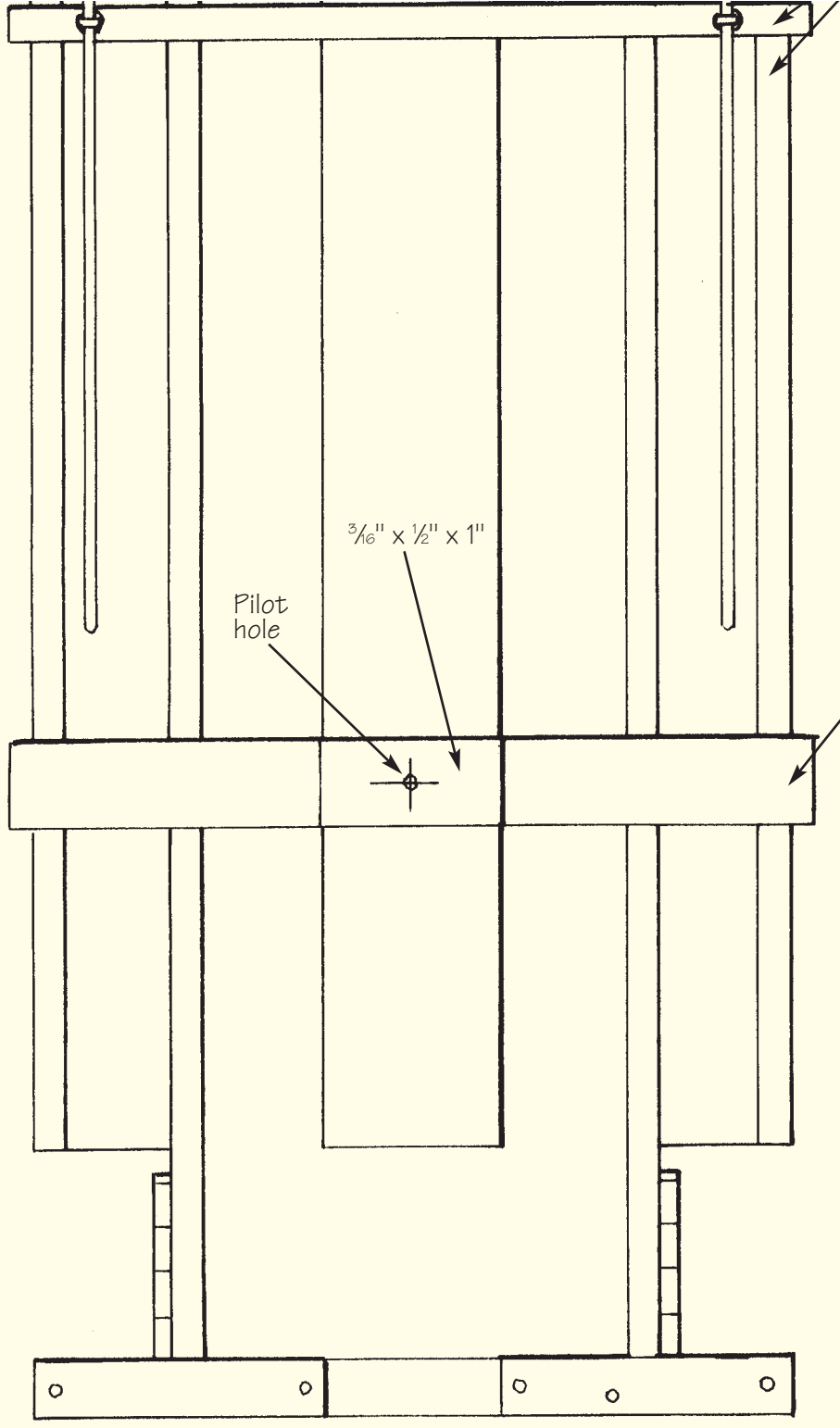


CUPOLA WINDOW  
Make 8

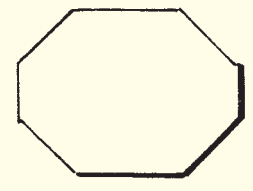


# LADDER

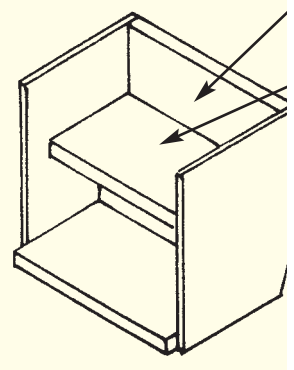
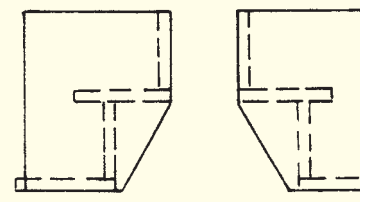




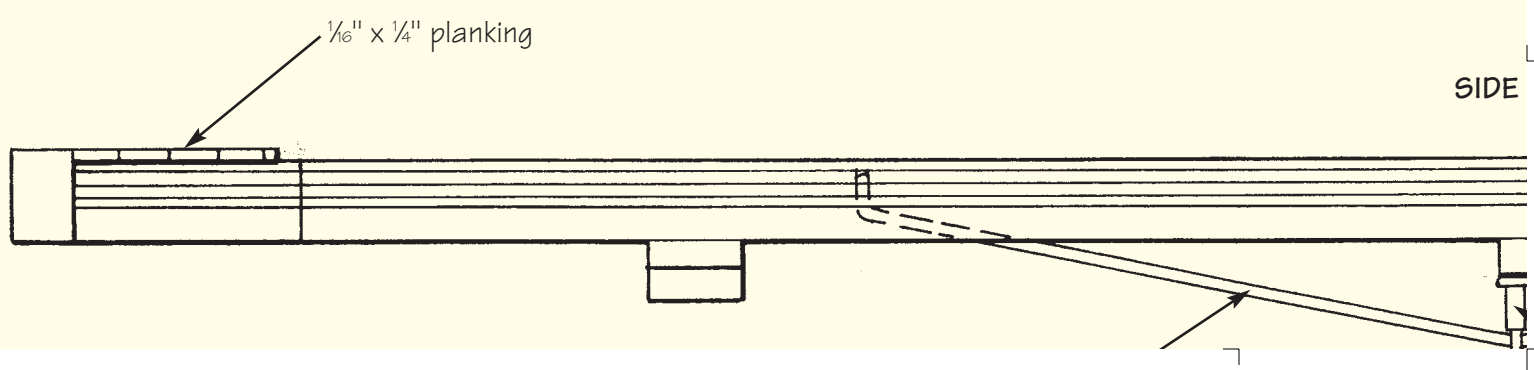
**SMOKE HEAD**  
 Make from cardstock



**STEP DETAIL**  
 CARDSTOCK SIDE

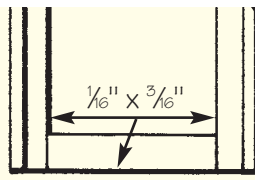


**SIDE**



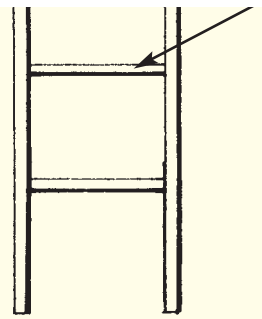


$\frac{1}{16}'' \times \frac{1}{8}''$

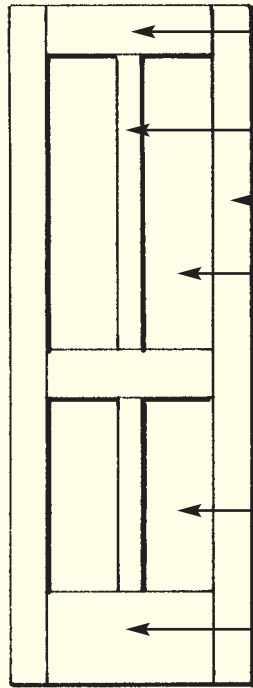
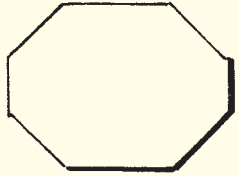


$\frac{1}{16}'' \times \frac{3}{16}''$

$\frac{1}{16}'' \times \frac{1}{8}''$



**SMOKE HEAD**  
make from cardstock



$\frac{1}{16}'' \times \frac{1}{4}''$

$\frac{1}{16}'' \times \frac{1}{8}''$

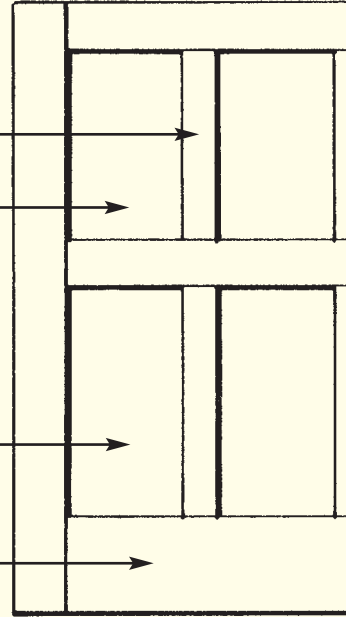
$\frac{1}{16}'' \times \frac{3}{16}''$

clear plastic

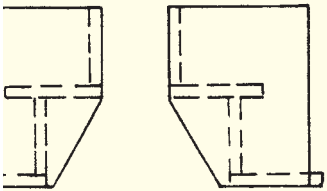
**DOORS**  
Make 2 of each

$\frac{1}{32}''$  ply

$\frac{1}{16}'' \times \frac{1}{2}''$



**STEP DETAIL**  
CARDSTOCK SIDE

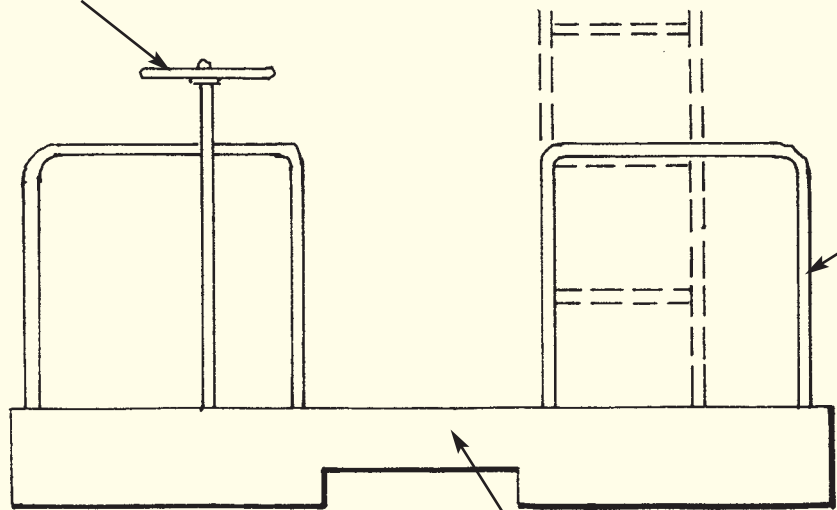
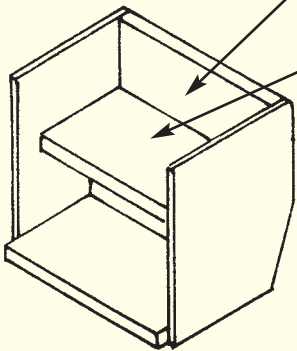


**END BEAM**

brake wheel

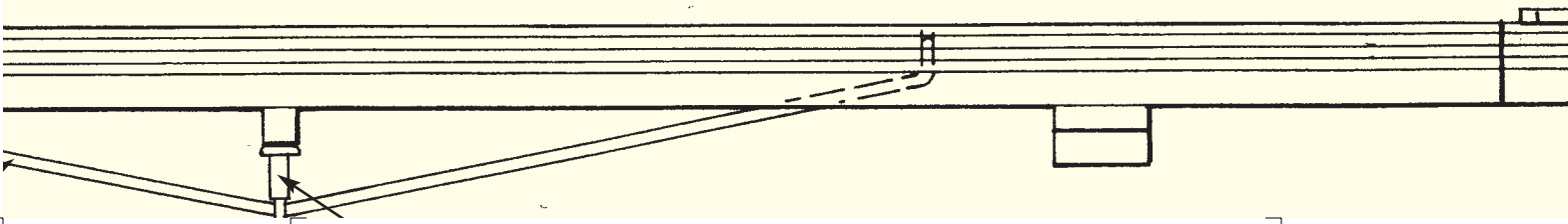
$\frac{1}{16}'' \times \frac{7}{16}'' \times \frac{3}{32}''$

$\frac{1}{16}'' \times \frac{1}{2}'' \times \frac{3}{32}''$

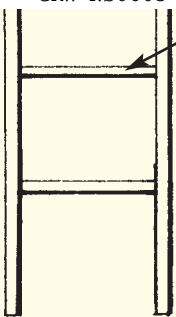


$\frac{5}{16}'' \times \frac{1}{2}''$

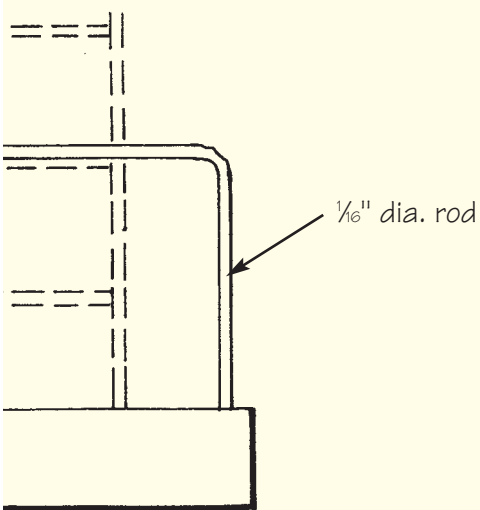
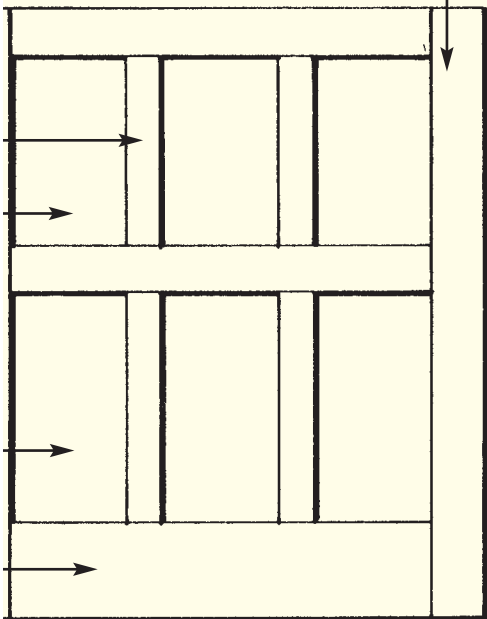
**SIDE VIEW**







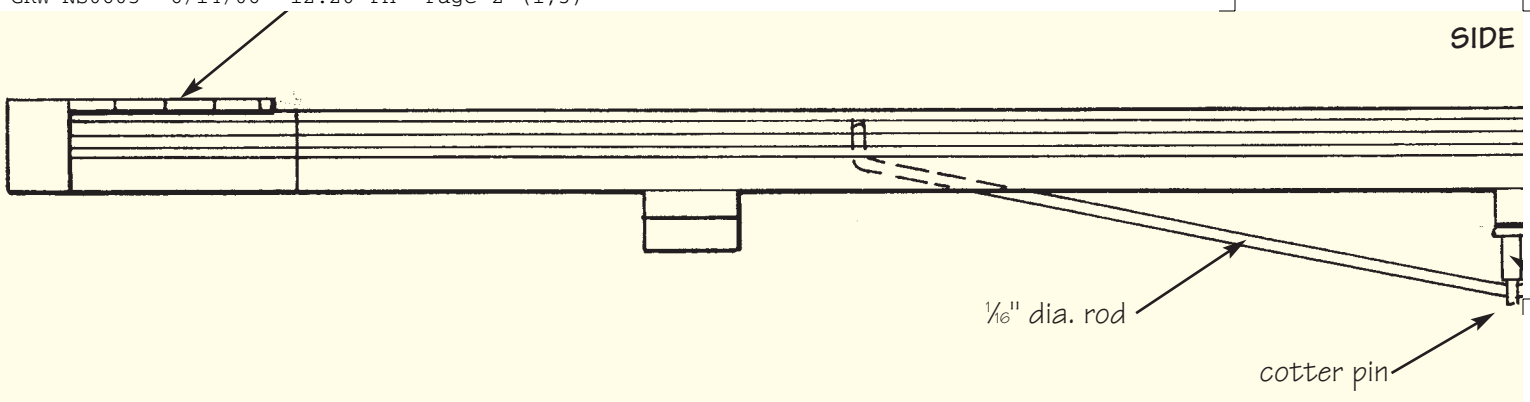
$\frac{1}{16}'' \times \frac{1}{4}''$



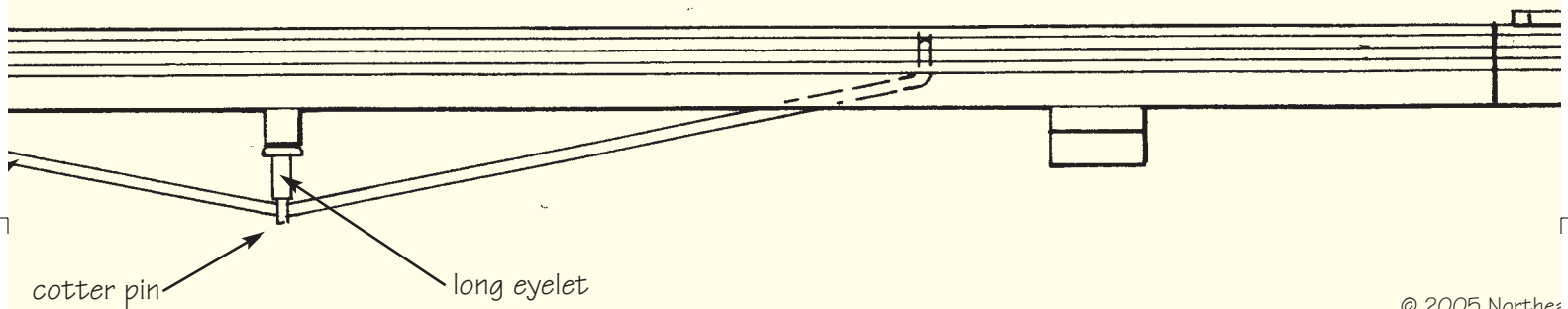
$\times \frac{1}{2}''$



SIDE



# SIDE VIEW





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