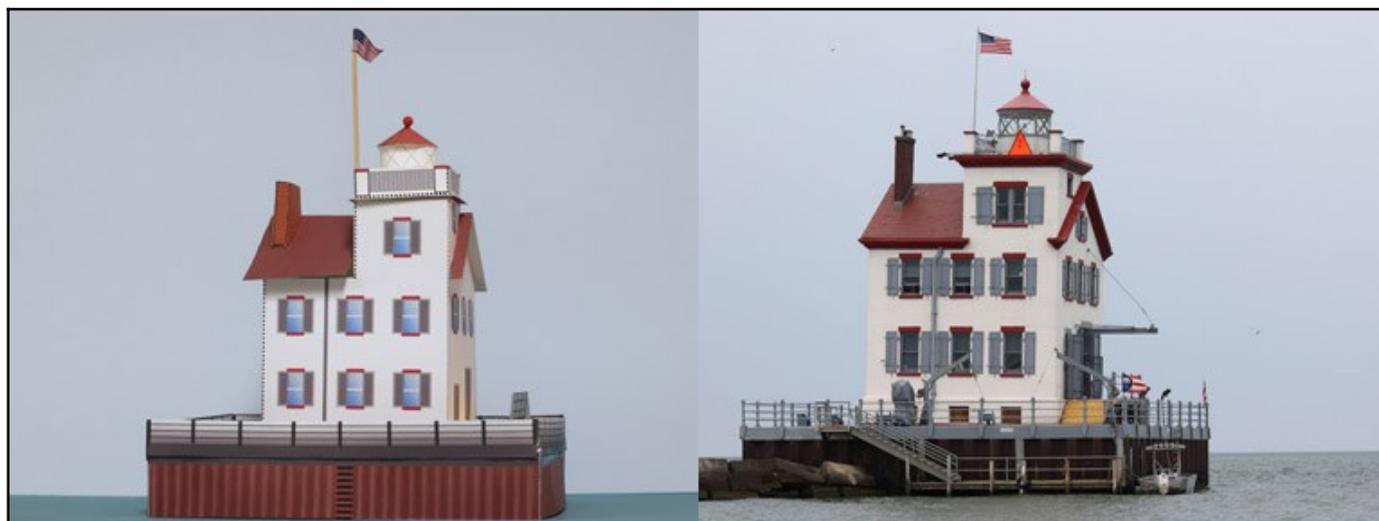


Lighthouse Cutout Series: Lorain Harbor, OH



Supplies needed:

- 7-10 sheets of 8 ½ X 11" white cardstock (65-67 lb)
- Fast drying glue (such as Aleene's Tacky® Glue)
- Scissors
- X-Acto® knife or any sharp cutting tool
- Cutting mat or cutting board
- Tools to score (See General Tip #3)
- 1 bulletin board pin with a red round ball head
- Black marker, such as Sharpie®
- 2 round toothpicks—see note at right

Optional Supplies:

- Copy paper to print the Instructions
- Various paper clips (See General Tip #5)
- Ruler or pencil (See General Tip #6 and #8)
- Tape to secure tabs

NOTE: One 3" toothpick (or bamboo skewer) will become the flag pole. Prepare the second toothpick to represent the fog horns as follows: Cut the toothpick ends to form two .75" tapered pieces. Color the toothpick including cut ends with a black Sharpie® marker, paint, or nail polish.

General Tips:

1. To avoid frustration, use a good quality, fast drying glue.
2. Cut just inside the solid line for a cleaner looking finished product.
3. Unless directed differently, score all dotted lines before folding. To score a straight line, line up a ruler then run a dull butter knife or spoon handle over the dotted line. Fold gently. (If you use scissor tips be extra careful.)
4. If the model isn't fitting together easily for any reason, leave the project and return to it after a rest period.
5. Paper clips can make handy clamps to hold pieces in place while glue dries.
6. Pencils and rulers can be finger extenders when you can't reach to secure a tab.
7. Slot, Section and Tab letters mate together during construction. Connect them when told to do so in the instructions.
8. Since cutting out the piece may remove the Slot, Section or Tab name, consider using a pencil to lightly note the name on the back of the piece.
9. Some modelers prefer to cut straight lines with a straight edge (ruler) and X-Acto®. Others prefer scissors or a paper cutter. Feel free to use what works for you.
10. A word on pointed triangular tabs versus flat topped trapezoid shaped tabs: some like a sharp pointed tab to slide into a slot. Others feel the point curls too easily and prefer a trapezoid or flat topped tab. Simply snip off the point if you find it easier.
11. The instructions generally call for cutting out the piece then using the X-Acto® knife to cut the slots. Some modelers prefer to cut the slots before cutting out the piece. Do what you find easier.
12. Have Fun!

Instructions:

This 10 page **intermediate** kit builds a model of Ohio's Lorain Lighthouse. The tower stands 51 feet tall and the model will stand about 7.5 inches tall. First, gather all supplies and read the General Tips on page 1.

Using a color printer placed on the "Actual Size" setting (rather than "Fit" or "Shrink Oversized Pages" setting), print pages 4-10 on white cardstock. Instructions, found on pages 1-3 may be printed on copy paper, cardstock or simply read from your screen without printing.

□ Step 1

Cut out the **House Front and Side Piece** from page 7 and the **House Back and Side Piece** from page 8. Cut the slit on the **House Back and Side Piece** along the solid black line. Score both pieces on the dotted lines and fold in. Using an X-Acto® knife cut open Slot V and Slot Y on the **House Front and Side Piece**.

Glue Tab J behind Section J and Tab K behind Section K.

Glue tiny Tab U behind Section U, lining up along the top to begin to form the tower.

Tuck Tab W behind the thin strip you just made but do not glue it.

Glue Tab M inside the tower top, like a lid to a box.

□ Step 2

Cut out the **House Roof Piece** from page 9. Cut Slots C, D and both Slots B with an X-Acto® knife then score on the dotted lines and fold in.

Attach this piece to the **House Piece**: First tuck Tab V into Slot V and glue or tape the tab to the inside of the house. Second, glue or tape Tab W to the underside of the roof. Then, glue or tape all three Tabs L to the underside of the roof. The roof should have an overhang of about 1/4 inch all around. Secure with a thin thread of glue as needed.

□ Step 3

Cut out the **Tower Roof Piece** from page 9. Cut all four Slots S with an X-Acto® knife. Score the dotted line.

Cut out the **Beacon Piece** from page 9. Roll it into a cylinder and glue the Tab behind the first edge to secure.

Cut out the **Beacon Roof Piece** from page 9. Cut the slit on the black line and glue into a dome using the gray guideline.

Cut out the **Tower Railing Piece** from page 8 including the three solid black line slits separating Tabs Q. Score and fold in on the dotted lines. Form this piece into a square cube with a partial floor and glue Tab M behind Section M.

Attach the **Beacon Roof Piece** to the **Beacon Piece** by gluing Tabs T to the underside of the roof.

Slide Tabs S on the **Beacon Piece** into Slots S on the **Tower Roof Piece** then glue or tape the Slots absolutely flat against the back of the piece. Fold the **Tower Roof Piece** on the dotted line and glue the white sides together. The white piece with the "X" in the center will be facing down.

Apply glue to all four Tabs Q on the **Tower Railing Piece** and, using the gray guidelines, attach it to the top center of the **Tower Roof Piece**. Attach this piece to the top of the **House Tower Piece** by applying glue to both Areas X. Make sure the **Beacon, etc Piece** sits squarely on top of the **House Piece's** tower.

Attach the red bulletin board pin to the top of the cone shaped **Beacon Roof** to represent the ventilator ball.

□ Step 4

Cut out the **Chimney Piece** from page 10. Score all dotted lines and fold in. Glue the two Tabs to form a chimney-looking rectangular box, trimming the tabs at a slight angle if necessary.

Reopen Slots C & D on the roof of the **House Piece** if needed. Slide Tabs C & D on the **Chimney Piece** into Slots C & D on the **House Piece**. Secure with tape or glue. Set this piece aside.

□ Step 5

Cut out all four **Crib Wall Pieces** from page 4. Score on the dotted lines and fold in. Glue Tab A

behind Section A, Tab B behind Section B and so on until you have formed a frame with no top or bottom.

Cut out the **Crib Floor Piece** from page 6. Using an X-Acto® knife, cut open all five Slots on the white solid lines (Slots F, G, H, I and Z). Glue or tape this piece to Tabs E of the **Crib Wall Pieces**. This will form the top of the crib platform. Carefully trim off any excess **Crib Floor Piece** slightly protruding over the **Crib Wall**.

Step 6

Cut out all four **Railing Pieces** from page 5. Score along the dotted lines. Fold each piece's center dotted line in (white sides to white sides) and fold the other dotted line out (colored sides to colored sides).

Line all four pieces up, tuck the Tab from one piece into the non-tabbed side of the neighboring piece to make one long railing piece and glue the Tab securely.

Glue the piece's folded white sides together. Said another way, glue the front and back of the railing together, but do not glue the long solid gray sections which were folded up. (Later, the final tab at the end will tuck into the first strip so leave a bit unglued.)

Retrieve the **Crib Wall/Floor Base Piece**. Glue one section of the **Crib Railing Piece** along the edge of the crib base so that the folded gray section on the **Crib Railing Piece** rests on top of the gray **Crib Floor Piece** and the unfolded gray section extends down and overlaps along the gray section of the **Crib Wall Piece**. Repeat for the other three sections. Sandwich and glue the last Tab between the neighboring section at the corner where they meet.

Step 7

Cut out the **Fog Horn Room Piece** and **Fog Horn Room Roof Piece** from page 10. Use scissor tips or the X-Acto® knife to make two small holes as indicated by the two black dots. Score on the dotted lines and fold both pieces in.

If necessary, reopen Slots B on the **House Roof**. Slide the sides of the **Fog Horn Room Piece** into

slots B on the **House Roof** to form a dormer sitting at the correct angle. Tabs A are facing upward. Glue the **Fog Horn Room**



Roof Piece to Tabs A of the dormer. Apply a thin thread of glue to secure this entire appendage.

Retrieve the two black toothpick pieces. (See NOTE on page 1) Dab a dot of glue on both holes in the **Fog Horn Room Piece** and attach the two cones by pressing one cone tip into each hole.

Step 8

Cut out the **Front Steps Piece** from page 10. Score on the dotted lines. Fold the line in the blue area in (white side to white side) and fold the two sides with yellow gray stripes down at an angle (colored sides together).

Glue the two blue sections back to back with white sides together. Locate the two Tabs T and glue them flat to the back side of the blue/gray section so that the triangular sides are parallel to the edge and the yellow/gray section begins to represent stairs.

Step 9

Retrieve the **House Piece**. Tuck Tab Y on the **Stair Piece** into Slot Y on the **House Piece**.

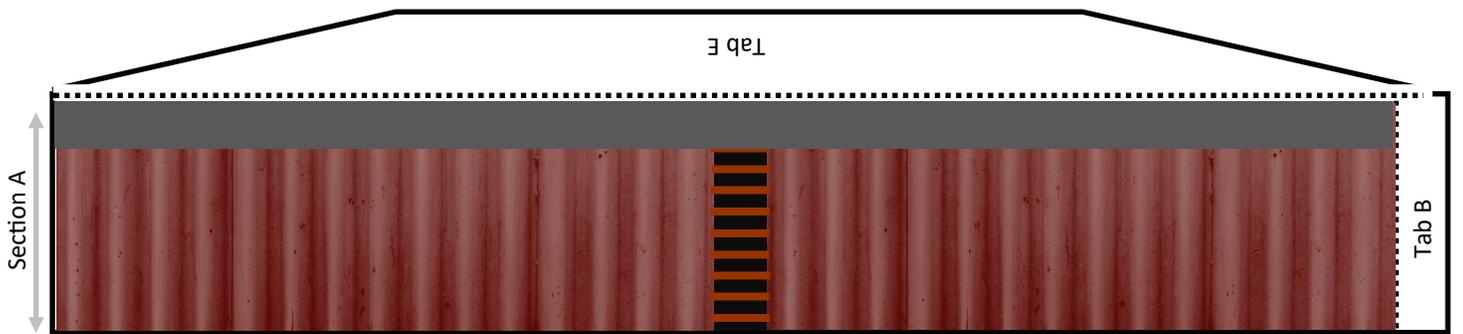
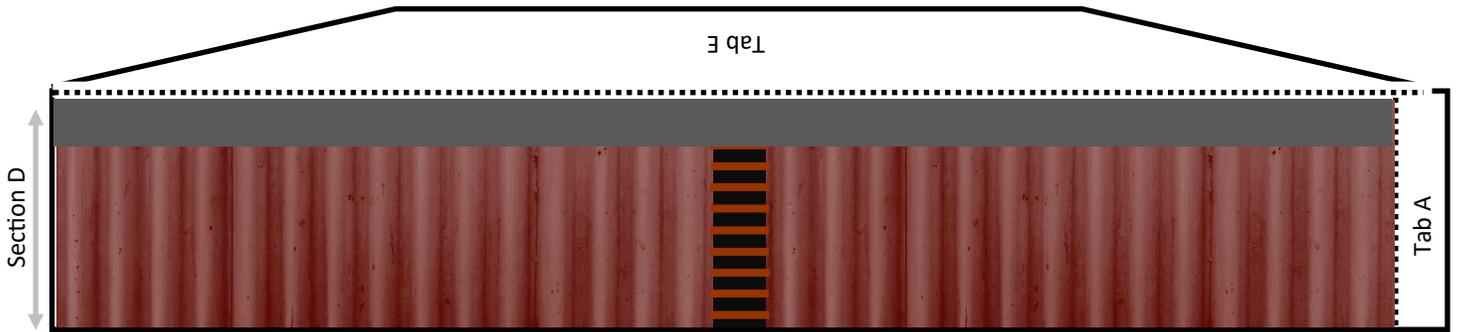
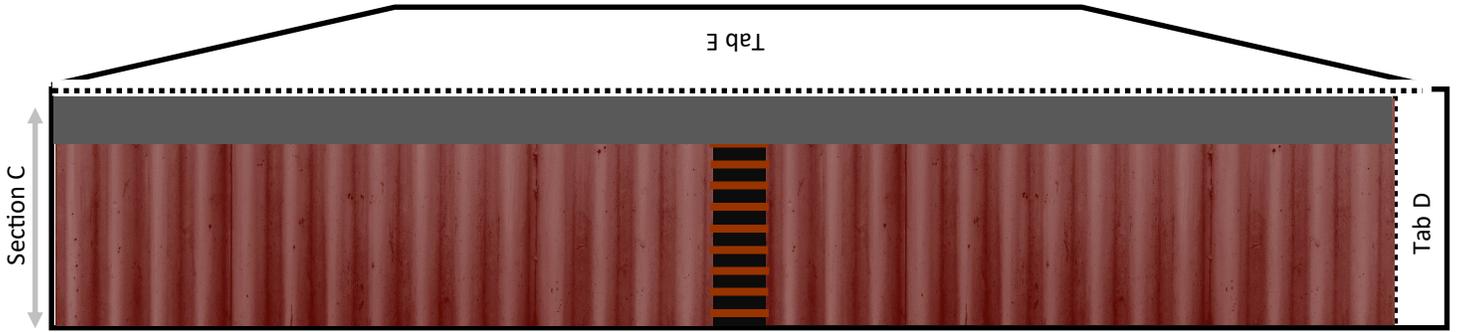
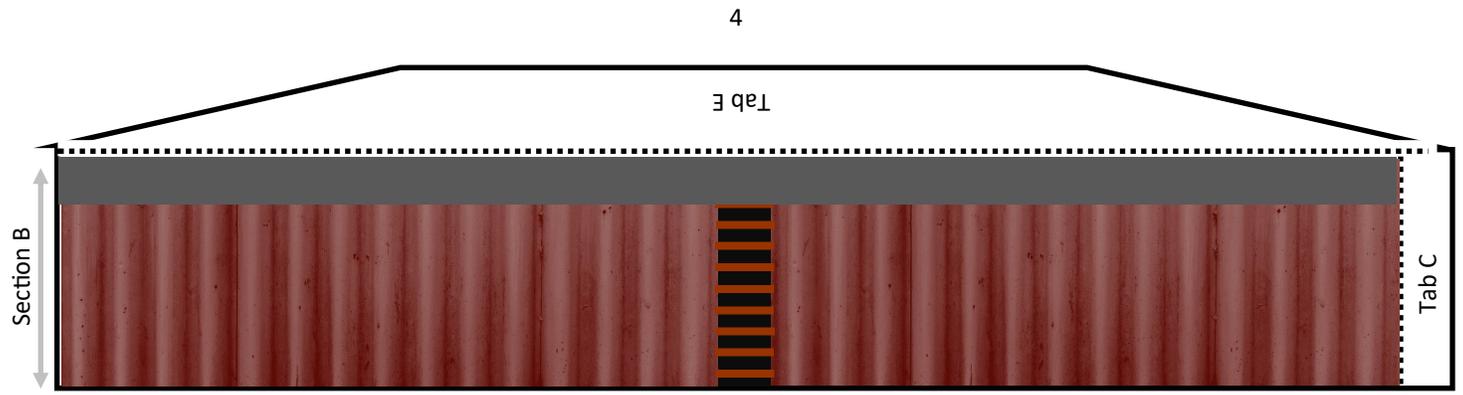
Retrieve the **Crib/Wall Piece**. Tuck Tabs F, G, H & I on the **House Piece** into Slots F, G, H & I on the **Crib Wall Piece**. Tuck Tab Z into Slot Z and secure under the model with glue or tape.

Step 10

Locate the **Flag Piece** from page 5. Score on the dotted lines and fold in half then cut. Place the end of a 4" tooth pick or bamboo skewer in the fold and glue the front of the flag to the back. Consult the photo for location, then ever so gently slide this into the corner of the tower and secure with tape or a dab of glue.

Step 11

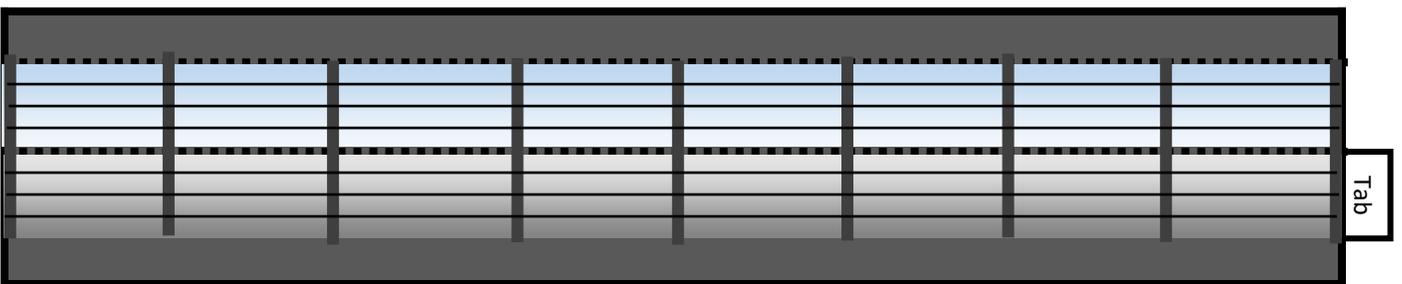
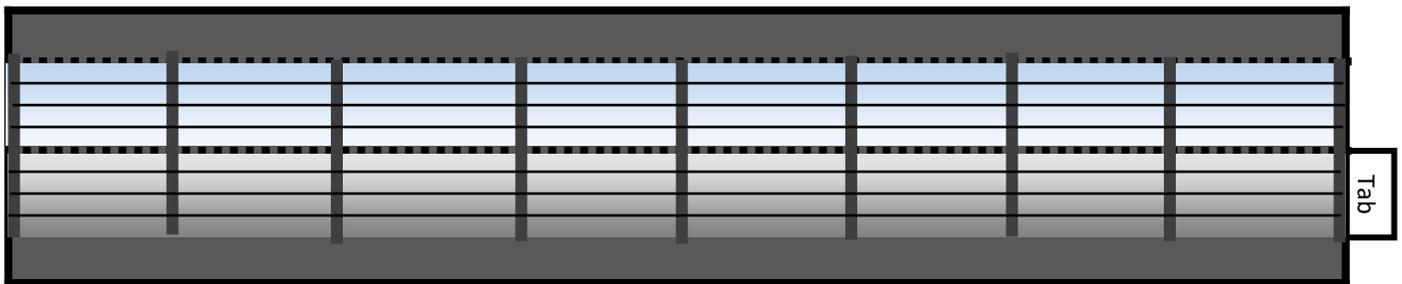
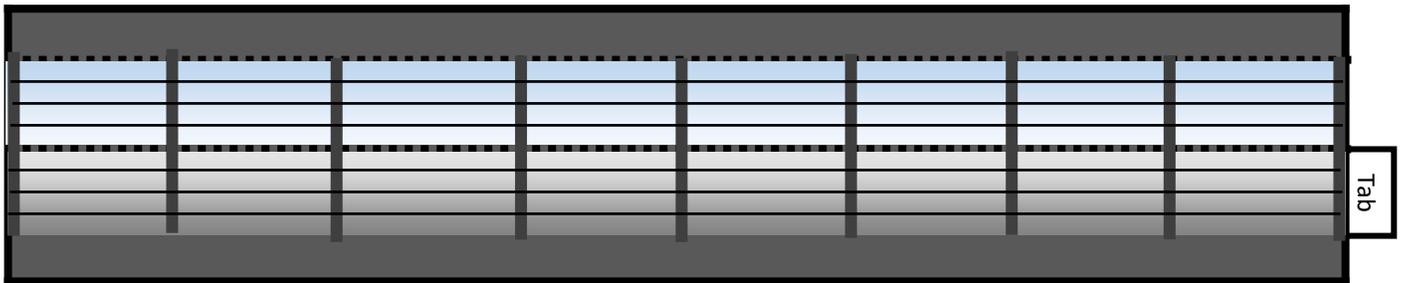
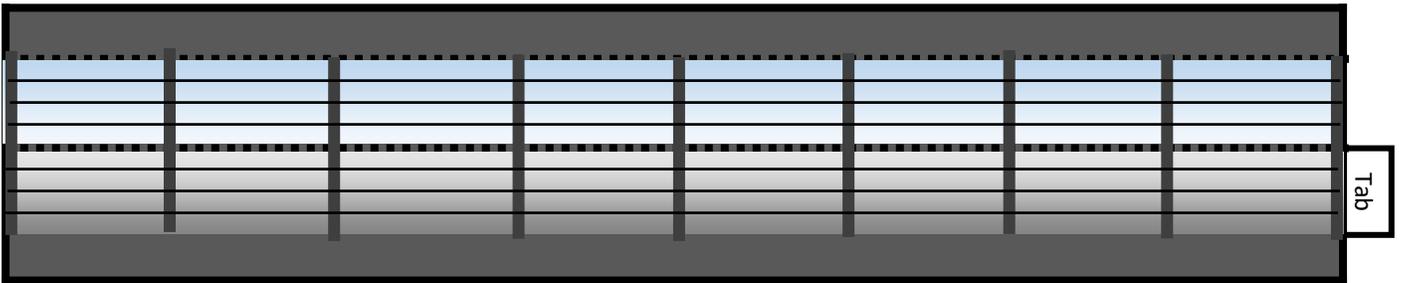
Add your initials and the date to the **Tag Piece** from page 7. Glue this to the inside of the model or a location of your choice. Proudly Display!

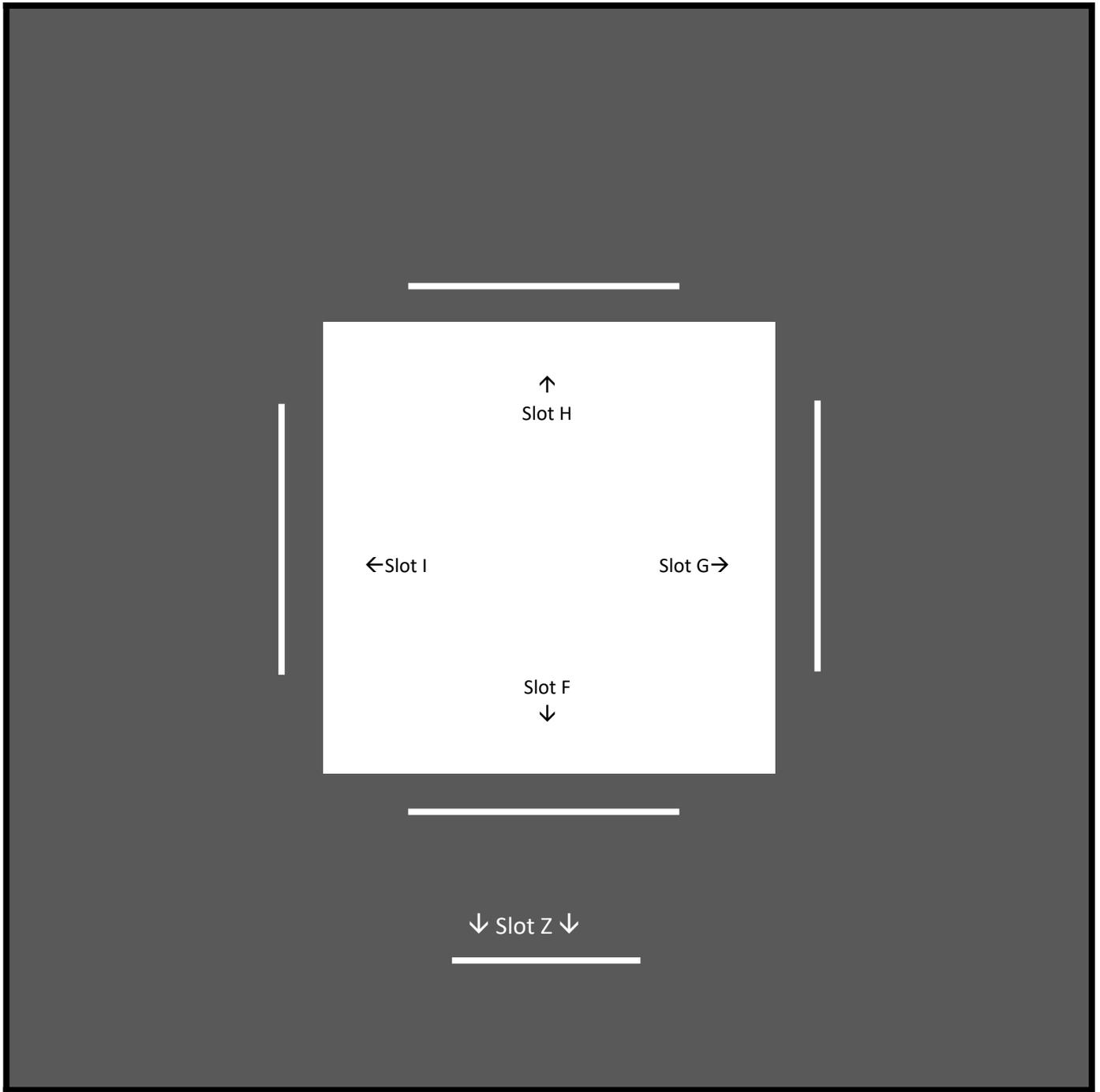


4 Crib Wall Pieces



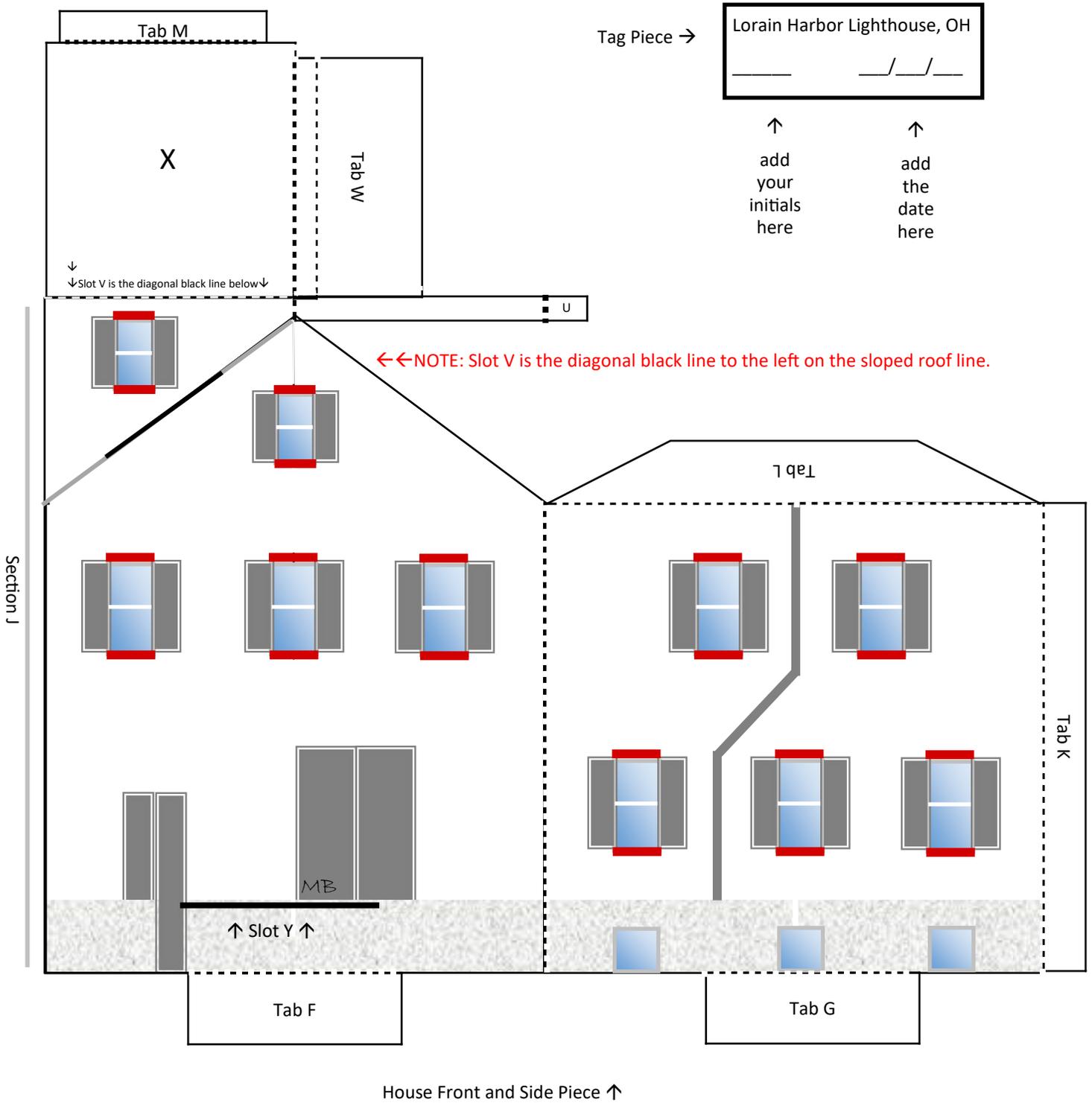
4 Railing Pieces ↓



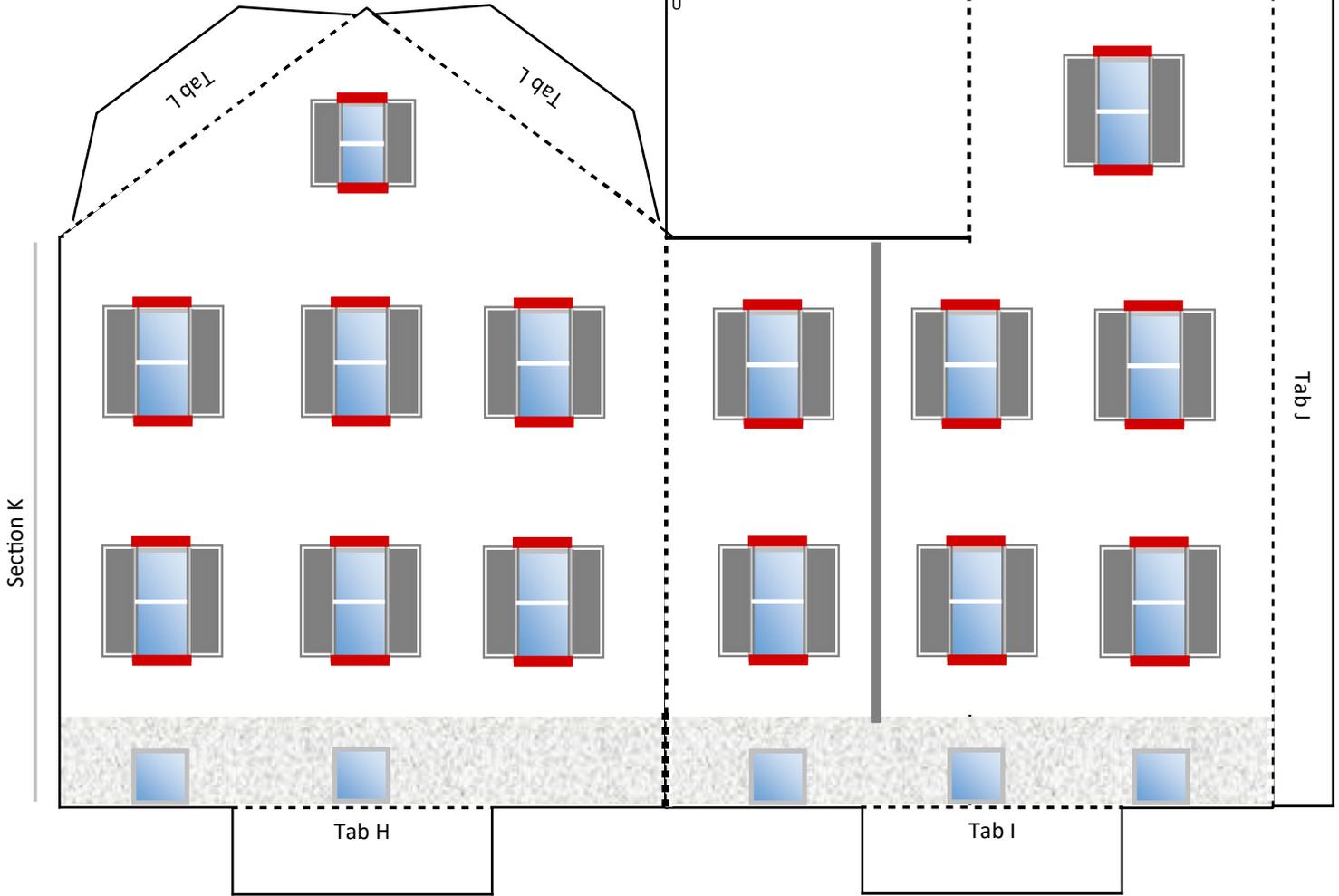


Crib Floor Piece

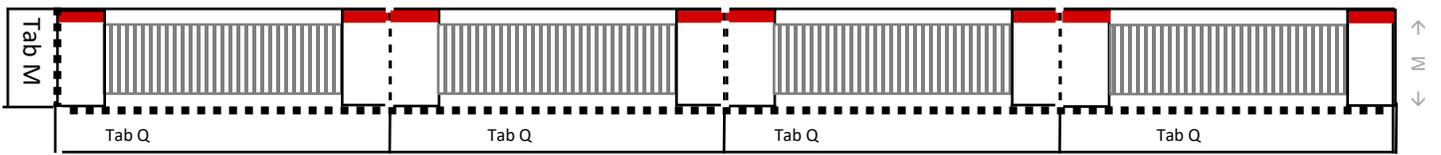
I received magnificent help for this project from my editor, Shirley Splittstoesser and photographer, Allan W. Blunt.



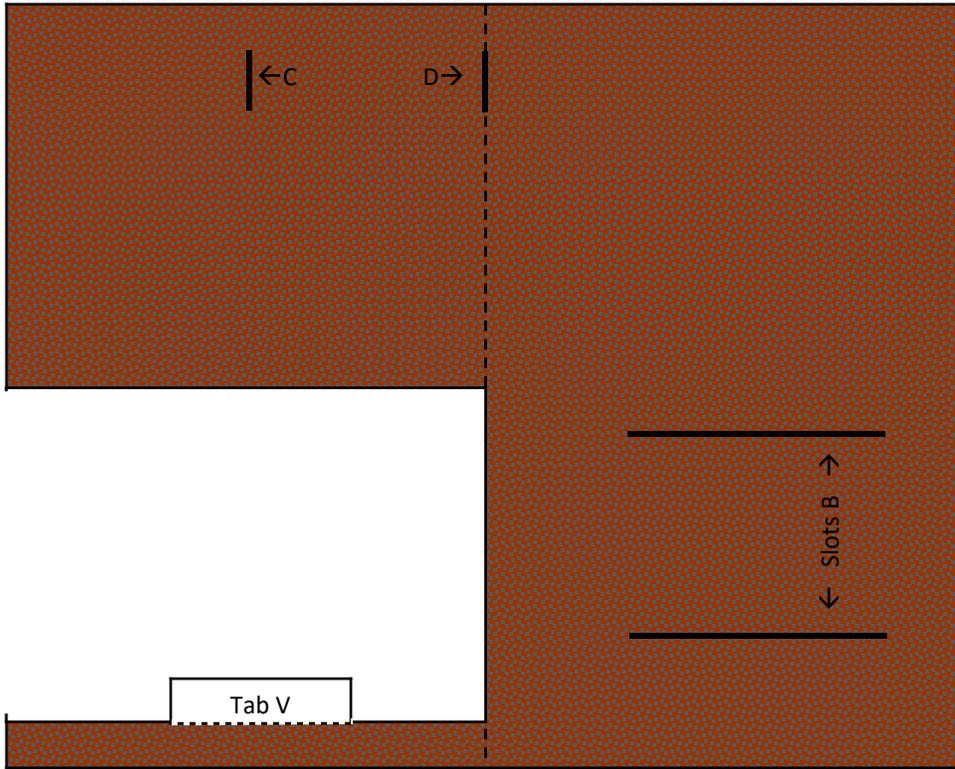
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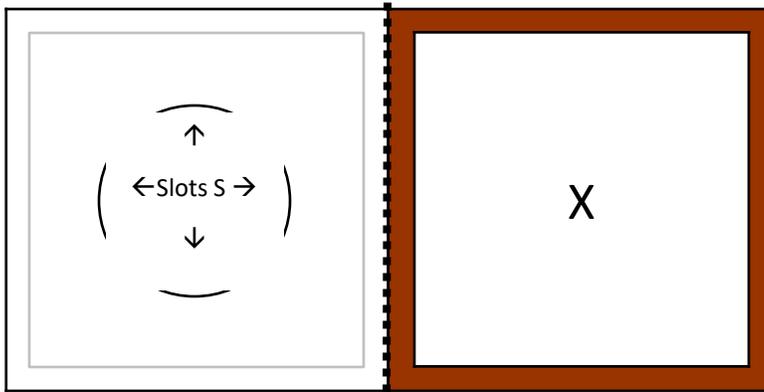
House Back and Side Piece ↑



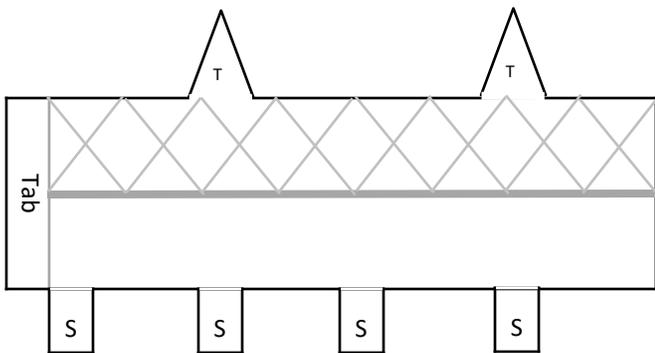
↑ Tower Railing Piece



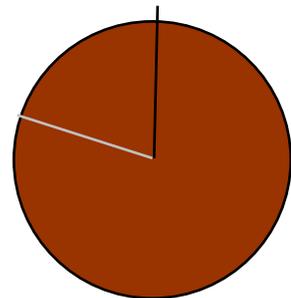
← House Roof Piece



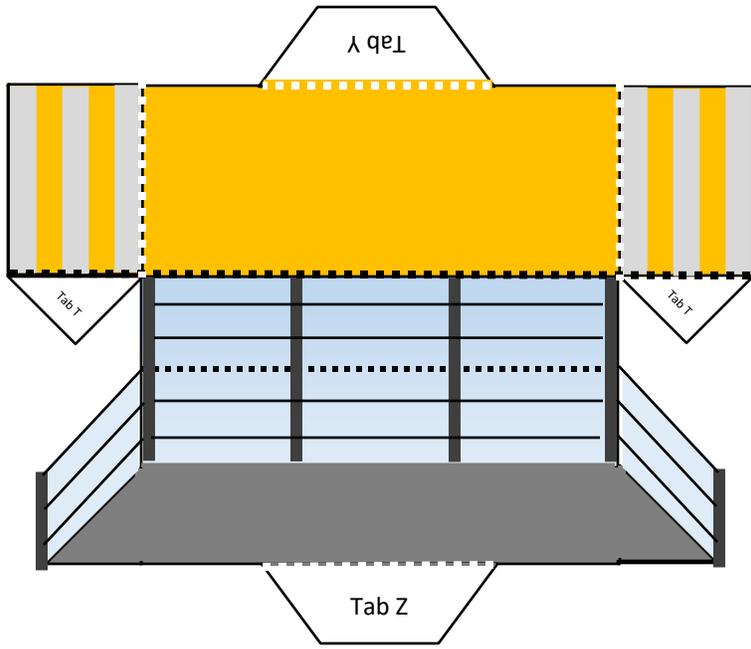
← Tower Roof Piece



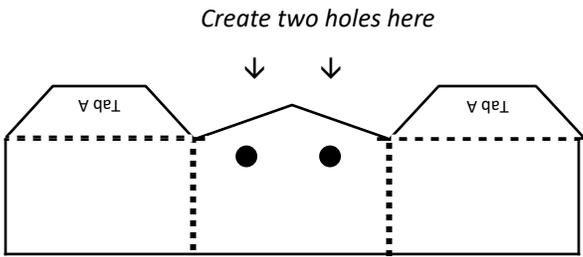
↑ Beacon Piece



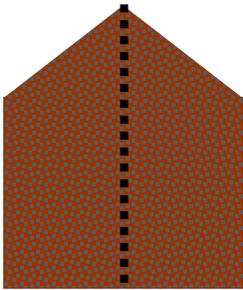
↑ Beacon Roof Piece



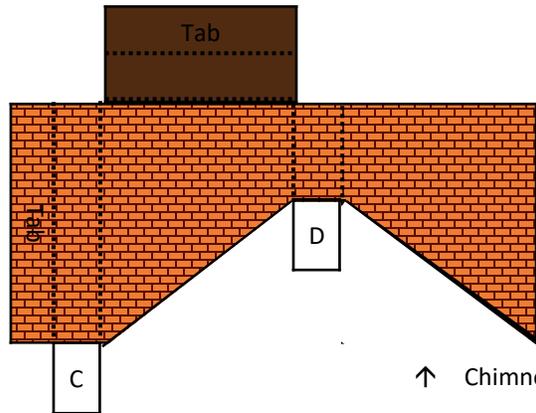
← Front Steps Piece



← Fog Horn Room Piece



↑ Fog Horn Room Roof Piece



↑ Chimney Piece