

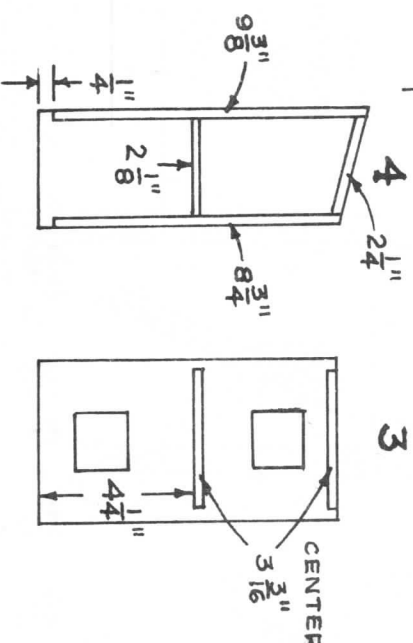
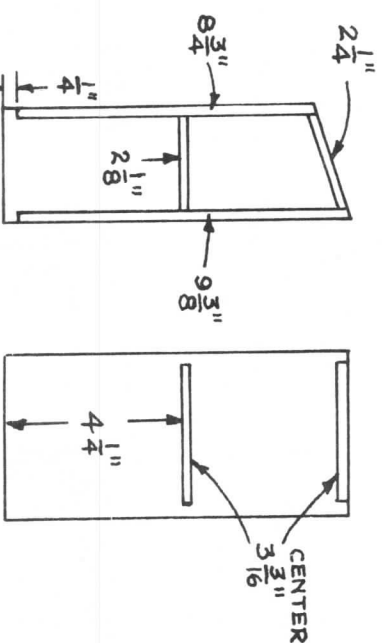
We will assume that anyone building this kit has already constructed the LVM14 coal breaker or has some other sort of building to which they want to attach the LVM15 minehead. If you haven't already built the LVM14 coal breaker, you certainly will want to do so to achieve utmost realism for your above ground units. A final kit, LVM16, which consists of a powerhouse and large water storage tank will conclude the anthracite mining industry.

TOWER FOUNDATION

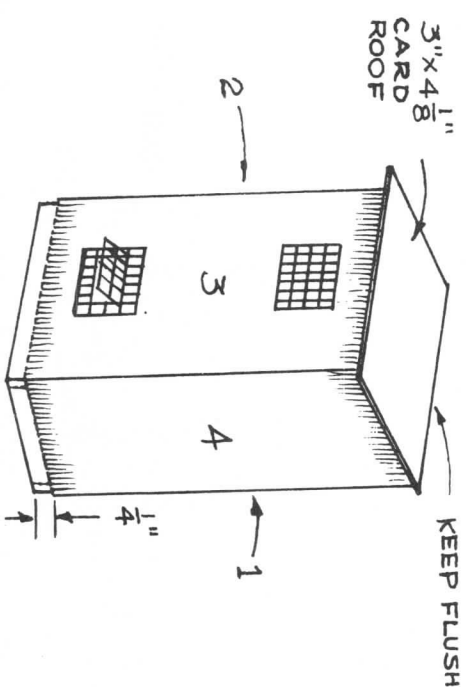
Using the four corrugated sheets marked 1,2,3,4 in red, carefully cut out the two end window openings and side walls where marked. Save the large leftover pieces to use later on the minehead building.

Turn the sheets over with the smooth surface upward. Using the precut 3/16" square

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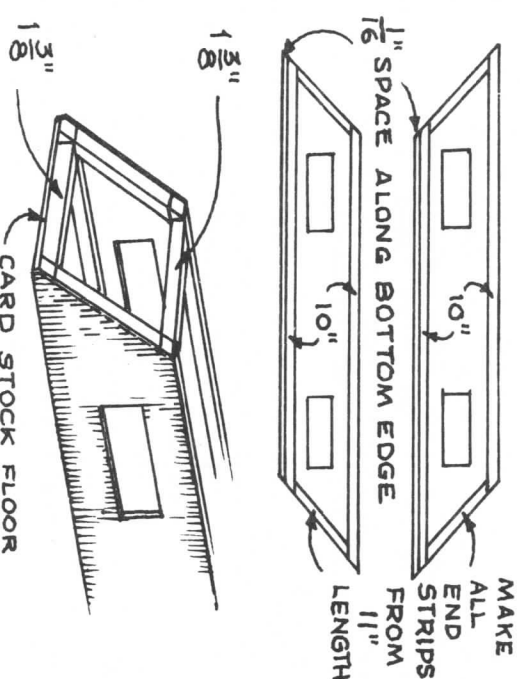


Then glue the front (with windows) wall and rear wall in place to complete the enclosure. Trim any corrugated material away that may extend from the corners. Finally, the 3" x 4 1/8" card roof is glued on the top, keeping the back edge (high side) flush with the back edge of the wall and overhanging the front and sides equally.



You will find six pieces of corrugated wood marked with green numbers. Lay 1, 2 and 3 on a sheet of wax paper with the bottom edges against a straight edge to keep them even and glue those edges that join. The wax paper will prevent glue sticking to your work surface. Use plenty of glue as the excess can be wiped off after sheets are in position.

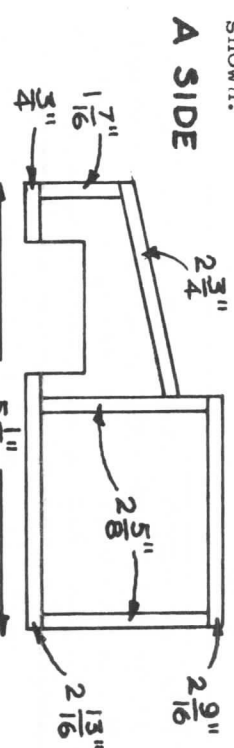
Do this with 5,6, and 7 also. Now carefully cut the tapered ends and windows where marked. Save the triangular pieces marked 4 and 8 and use these to complete the opposite tapered ends. Now you should have a right and left hand conveyor wall with 45 degree tapered ends and rectangular windows in each. Turn the smooth sides up and glue precut 3/16" square reinforcing strips to them as shown:



Glue the 1 3/4" x 10" card stock floor to the bottom of the conveyor walls to form a channel shape with the corrugated sides outward. The bottom of the walls have the 1/16" space provided to accept the card floor. Using the 11" length of 3/16" square strip supplied, cut four 1 3/8" lengths and glue two across both ends of the card stock floor. Since the end is on a 45 degree angle, keep

Paint the entire conveyor flat black inside and out. Also paint the 2 1/4" x 10" card stock roof. When the paint is dry, cut out the four rectangular windows supplied and glue inside at the window openings. These windows are all closed. Don't forget to allow a gluing edge. Then glue the roof in place keeping the ends flush and the side overhand even.

Acquaint yourself with the odd shaped building on the large drawing. This is the minehead or entrance. Using the pieces marked "A", glue the edges together to form the railway entrance. Use wax paper to prevent glue from adhering to your work surface. Now, carefully cut along the door and roof lines. This will be the "A" side. Turn the smooth side up and using precut 3/16" square stripwood, glue the reinforcing strips as shown:



A SIDE

The diagram shows the side profile of a wooden box. The top edge is labeled $2\frac{3}{4}$ ". The front edge is labeled $2\frac{5}{8}$ ". The bottom edge is labeled $2\frac{13}{16}$ ". The right edge is labeled $2\frac{9}{16}$ ". The left edge is labeled $2\frac{1}{16}$ ". The depth of the box is labeled $5\frac{1}{4}$ ".

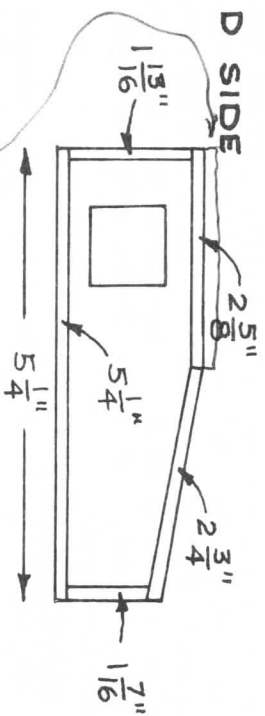
A diagram of a parallelogram. The left vertical side is labeled $4\frac{7}{16}$ inches. The right slanted side is labeled 4 inches. The top-left interior angle is labeled $1\frac{1}{4}$ degrees. The bottom-left interior angle is labeled $3\frac{15}{16}$ degrees.

Add a piece of leftover scrap corrugate from the tower to the right end of the "C" piece (one with doorway) to make it measure $4\frac{3}{8}$ " in width. Proceed as with other walls, smooth side up, gluing reinforcing as shown. Don't forget to leave $\frac{1}{4}$ " spacing on both sides.

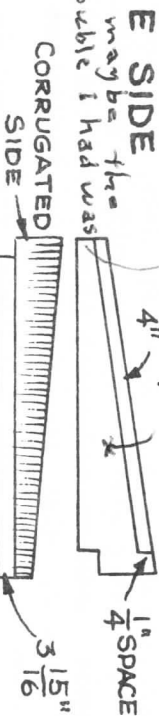
Diagram of a stepped shaft with the following dimensions:

- Total length: 7 in.
- Top diameter: $3 \frac{1}{16}$ in.
- Bottom diameter: $2 \frac{1}{8}$ in.
- Step height: $1 \frac{1}{4}$ in.
- Fillet radius: $\frac{1}{4}$ in.

Add two pieces (if necessary) of corrugated scrap to the left hand end of the "D" piece (one with window) to make it measure 5 1/4" in width. Project the sloping roof line and carefully cut away this and the window opening. Proceed as before.



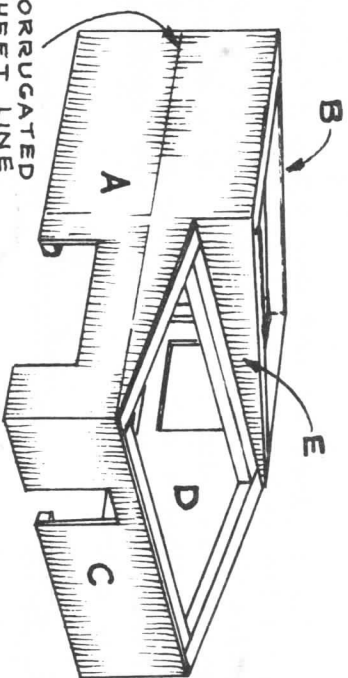
Add a small piece of scrap corrugated to the right hand end of the "E" piece to make it measure 4 1/4" in width. Project the sloping roof line and carefully cut out the roof. Be careful! about this piece



line and corner notch. Glue a 3/16" sq. x 3 15/16" reinforcing strip along and flush with the bottom edge of the corrugated side before turning it over to the smooth side where a 4" strip is fastened.

From the bottom edges of sides A,B, and D, measure 1 1/2" upwards and scribe a horizontal line as you did for the tower to indicate rows of corrugated sheets. Now paint both sides of these pieces flat black. Also paint the 3 3/16" x 5" and 3" x 5" card roof pieces after cutting out the ventilator opening where marked. When dry, cut out the large window leaving a gluing edge. Open the window if you desire. Glue to inside of the window opening.

Glue sides A,B,C,D, and E together keeping the bottoms even on your work surface. all the assembly has been done properly, your building should look like this:



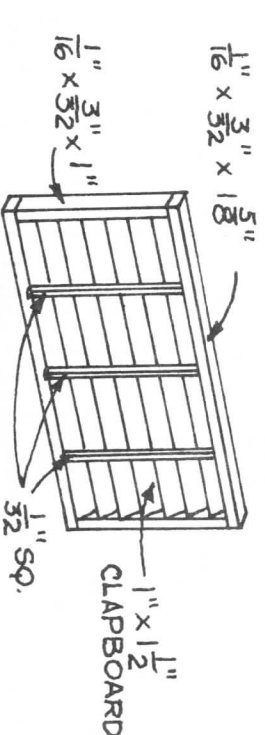
CORRUGATED SHEET LINE

Glue the roofs into place. See large drawing for locations. Keep the overhangs even on all sides. Roof with square opening covers

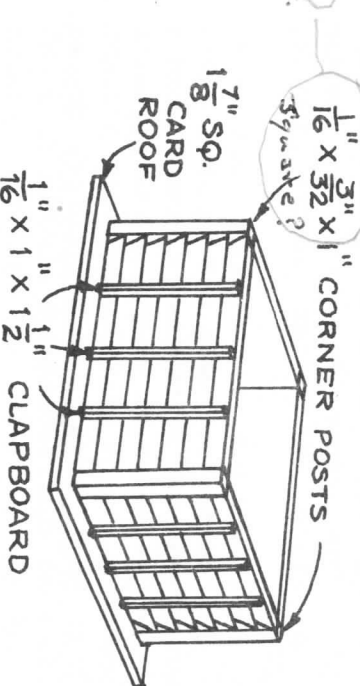
the topmost area.

VENTILATORS

First, assemble the wall side ("C") ventilator as shown:



Paint flat black and glue to "C" wall or minehead building where shown on large drawing. Center between doorway and corner, and roof and ground level of building. Assemble the square shaped roof ventilator upside down on its roof. Use the roof to keep it square. See sketch:



Paint flat black inside and out and when dry insert this unit into the roof opening, keeping its roof level all around. Keep the one end flush with the inside of the minehead roof leaving the other end project inside until you have the ventilator roof level. Apply a generous bead of glue around the joint from inside the building.

ROOFING

You are now ready to lay roofing paper using 3/4" wide masking tape. This is not furnished. Begin at the lower roof edge with one strip keeping the tape flush with the roof edge. Lay successive strips across the card roof, overlapping the lower one by 1/4". Do not run all of them all the way across, but make breaks and overlap these breaks by 1/16" to represent ends of the rolls. Trim off the edges with a scissor. Do this to all the roofs, including the ventilator roof. The conveyor roofing is laid crosswise from one end.

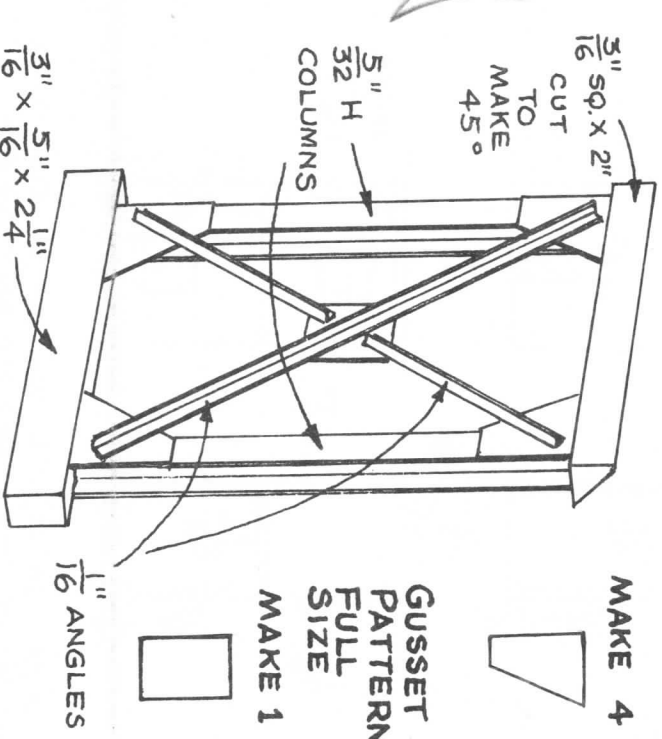
JOINING BUILDINGS

Make sure both ends of the conveyor housing are smooth with no projections beyond the 45 degree angles. Glue the one end to the "A" side of the minehead building where shown in the large drawing. The bottom of the con-

veyor housing should be 1/4" above the bottom of the minehead building. Be sure your roofing strips are overlapping the correct way. Then apply glue to the opposite end of the conveyor housing and glue it to the side of the tower (see large drawing). It's roof should contact the tower wall right below the lowest point of the sloping tower roof.

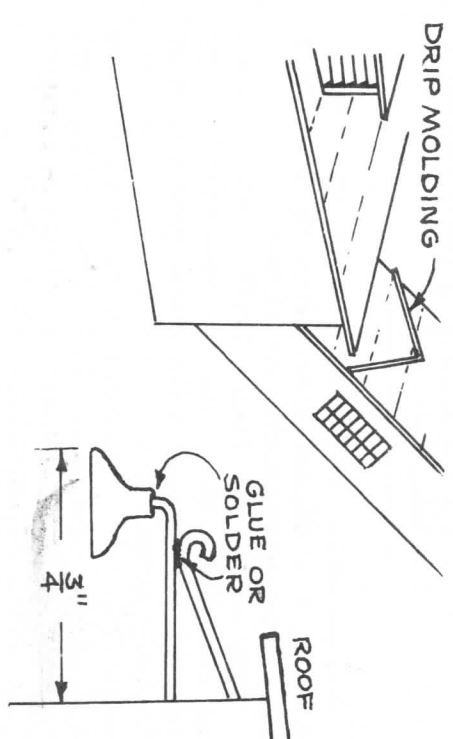
CONVEYOR SUPPORT

After all is secure, construct the conveyor support as sketched:



Trace the gusset templates on to the 1 1/2" x 5" thin card stock provided and cut them out. Assemble all the parts using plenty of glue on the "H" columns. Paint everything flat black except the foundation. This is painted Floquil cement color.

Fasten the unit to the underside of the conveyor housing as shown in the large drawing. Set the building on a flat surface and slide the support into place. Two final details must be added. Cut two pieces



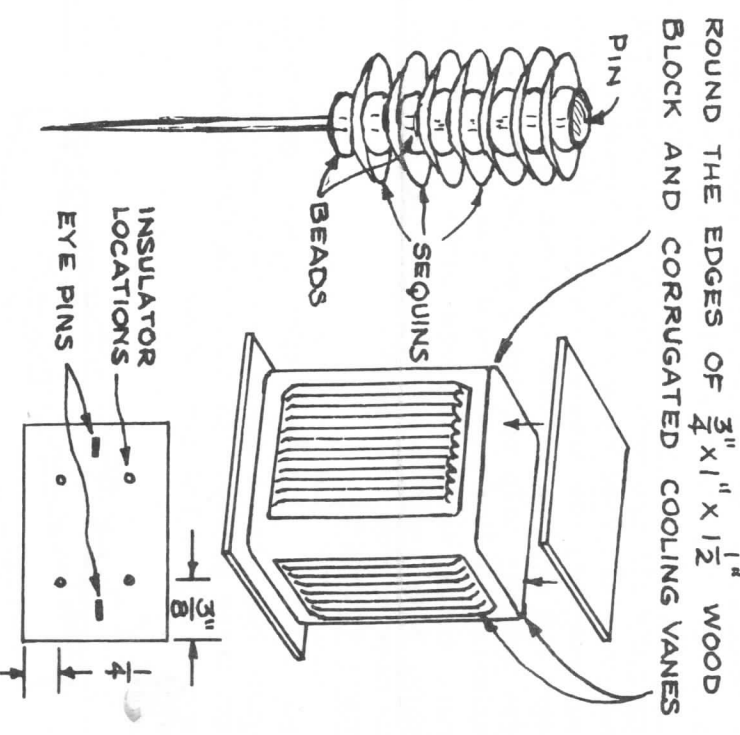
DRIP MOLDING

Glue the drip molding to the roof edge of the conveyor housing as shown in the large drawing. Set the building on a flat surface and slide the support into place. Two final details must be added. Cut two pieces

of 1/32" stripwood 1 3/8" long. Glue these pieces to the lower end of the conveyor housing roof forming an upside down "V" drip molding as shown. Using wire supplied, and the brass light reflector, fabricate a light bracket as in sketch and fasten to the minehead building just above the doorway.

TRANSFORMER

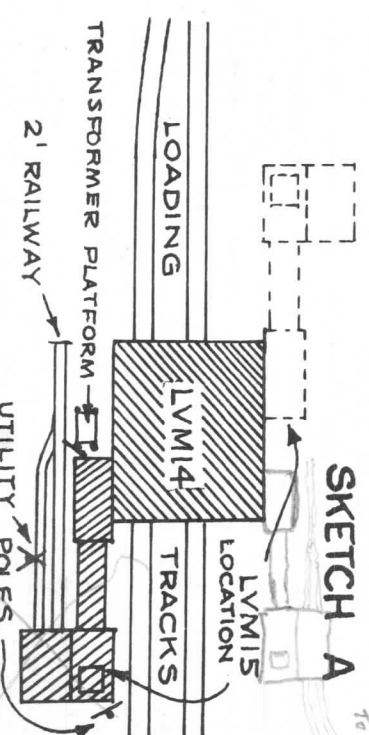
Glue 7/8" x 1 1/8" card stock pieces to ends of 3/4" x 1" x 1 1/2" wood block to form the large transformer. Center corrugated cooling vane pieces to the sides of the transformer block and glue them in place. On top of the transformer, mark the insulator and eye pin locations as shown in the sketch. Make up insulators with a straight pin, beads and sequins that are provided. Insert in these locations. Drill small holes to aid eye pin and insulator insertion.



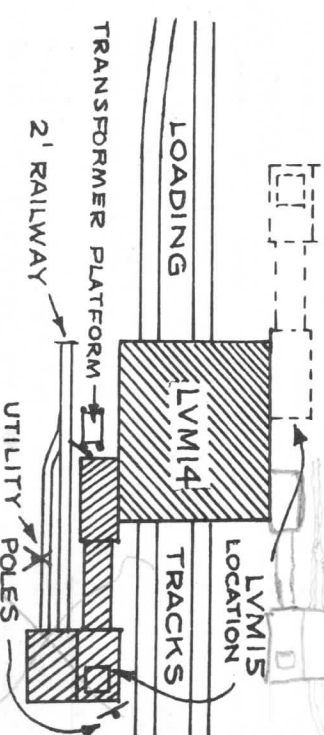
Paint the transformer silver, and the insulators either a dark brown or green color.

ARRANGEMENT

Wherever you locate your mine buildings, the tower should join the large LVM14 coal breaker as shown. It could also be located



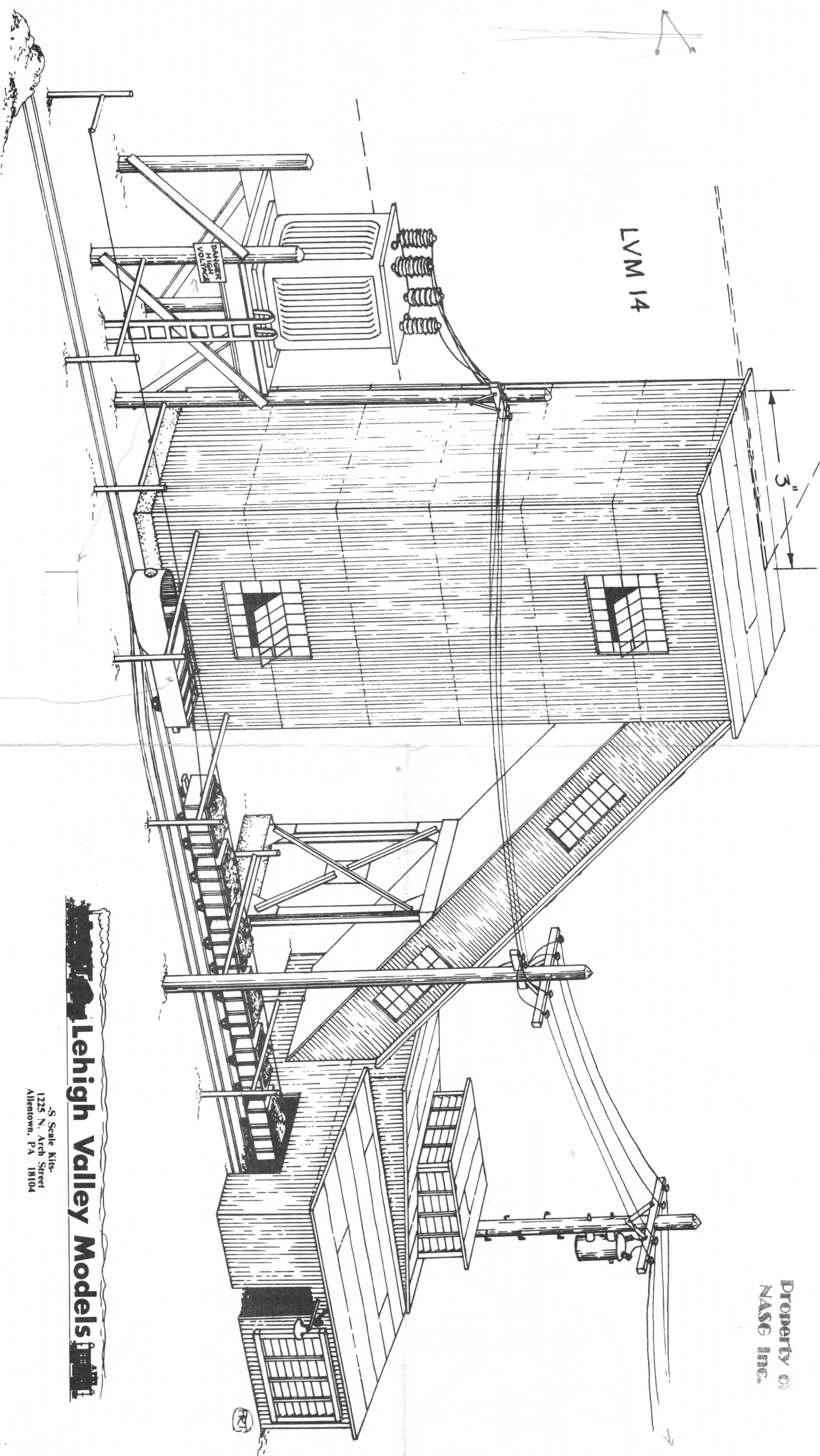
SKETCH A



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LVM 14

3"



Lehigh Valley Models

-S Scale Kits-
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Allentown, PA 18104