NASS INC. LVM15 - MINEHEAD

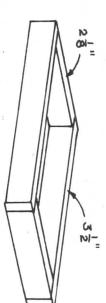
gigantic coal breaker building. mine. was dumped on a conveyor leading into the cars or locomotives (lokeys) hauled coal into a hillside. vein slanting downward from buildings This kit was designed to represent the to the surface entrance where the A slope mine usually follows a coal covering Diminuitive electric motors the entrance the surface or to a slope in small coal

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.

nail wood and card parts have been cut and checking the drawings, etc.. so have a good rule handy. you and may only require a bit of sanding or how they are used by reading the instructions this. Many parts are referred to by dimension identify all the parts, visualizing where and trimming. A Before board are starting fine tooth X-acto saw and fingergood tools assembly, Most of the to size for to use for sort and

TOWER FOUNDATION

Using the two 3/16" x 1/2" x 3 1/2" and two 3/16" x 1/2" x 2 1/8" pieces supplied, glue them into a frame as shown, overlapping the short pieces. Be sure this foundation is square before the glue dries.



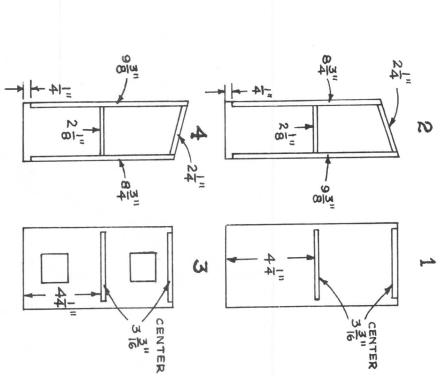
TOWER WALLS

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

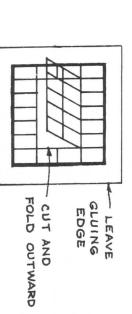
of corrugated sheet all the way up each sheet lines scribed horizontally at 1 1/2" interline measure 1 vals. X-acto knife. Starting make across These a visible mark that shows. 1/2" at the lines will resemble the edges Do not cut deep, just enough up and scribe the bottom corrugated sheet using an rows. SO of that you have a horizontal each wall, Do this

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

stripwood furnished, glue them in place as shown for wall reenforcing. Make sure you have the right size strips because some are cut only 1/16" longer or shorter.

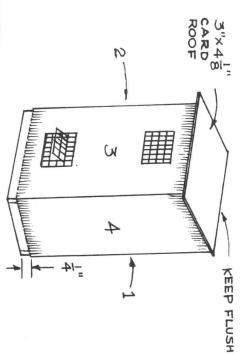


supplied leaving an edge for gluing them out two windows on the clear sheet of the wall. the windows into the openings on the inside as shown and fold outward. Position and glue place. inside and out. Next, If you desire some windows open, cut paint all four walls When the paint is dry, cut flat black that in



To assemble the tower, glue the bottom edges of the narrow side walls to the short sides of the foundation as shown:

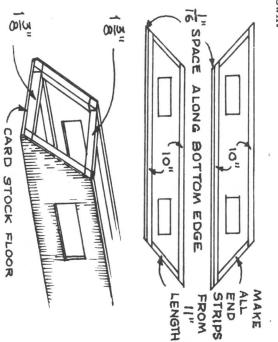
closure. front and sides equally. the back edge of the wall and overhanging the keeping the back edge (high side) flush with the $3" \times 4 \frac{1}{8}"$ card roof is glued and rear wall in place to complete the enthat may Then glue extend from the Trim any corrugated material away the front (with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



CONVEYOR WALLS

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

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



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

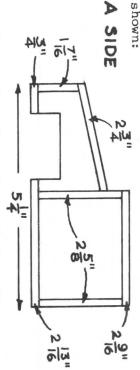
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these reenforcing strips back so they do not jut out beyond the ends but still provide a gluing surface. Glue the other two across the top ends as shown:

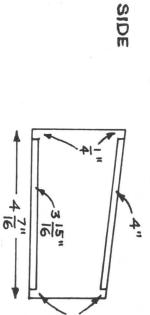
paint the entire conveyor flat black inside and out. Also paint the 2 1/4" x 10" card stock roof. When the paint is dry, cut out the four rectangular windows suppied and glue inside at the window openings. These windows are all closed. Don't forget to allow a gluing edge. Then glue the roof in place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

MINEHEAD BUILDING

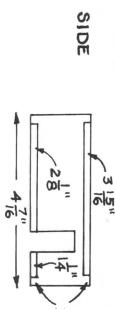
Now, carefully cut along the door and lines. This will be the "A" side. Tur glue from adhereing to your work surface. shown: stripwood, glue the reenforcing smooth side up and using precut 3/16" square railway entrance. minehead or entrance. Using the pieces marked building on the large drawing. Acquaint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



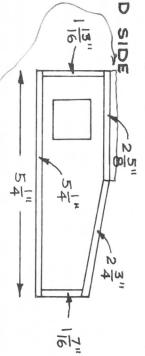
Next, glue the edges of the "B" pieces together to form the complete "B" side. When dry, turn the smooth side up and fasten the 3/16 square reenforcing strips in place as shown leaving a 1/4" space on each end:



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



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



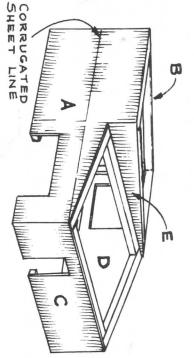
ing roof line and carefully cut out the roof it measure 4 1/4" in width. Project the slopthe right hand end of the "E" small piece of scrap corrugated to All piece piece to make

trouble i had was D) CORRUGATED SIDE SIDE 十九日 4"SPACE 910<u>1</u>

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

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

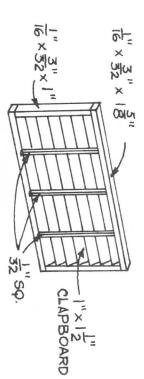
all the assembly has been done properly, your building should look like this: ing the bottoms even on your work surface. Glue sides A,B,C,D, and E together keep-



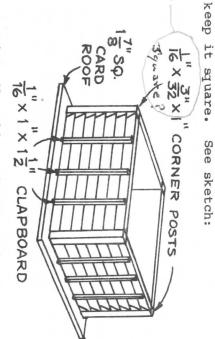
on all sides. Roof with square opening covers ing for locations. Glue the roofs into place. See large draw-Keep the overhangs even

> VENTILATORS the topmost area.

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



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



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

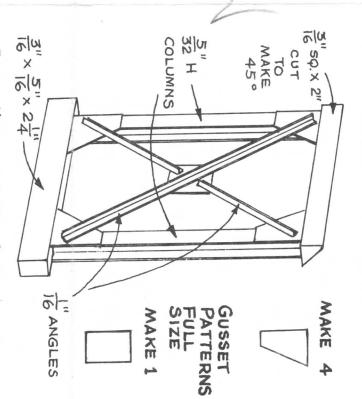
one end. The conveyor roofing is laid crosswise from all the roofs, including the ventilator roof. off the edges with a scissor. but make breaks and overlap these breaks by Do not run all of card roof, overlapping the lower one by 1/4". roof edge. one strip keeping the tape flush with furnished. using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

JOINING BUILDINGS

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

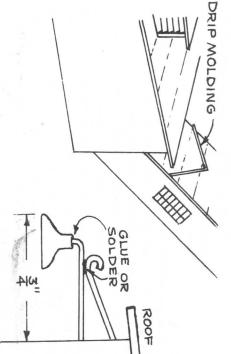
> of the minehead building. veyor housing should be 1/4" above the bottom CONVEYOR SUPPORT the tower (see conveyor housing and glue it to the side of lowest point of the sloping tower roof. should contact the tower wall right below the ing strips are overlapping the correct way. glue to the opposite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

veyor support as sketched: After all is secure, construct the con-



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

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

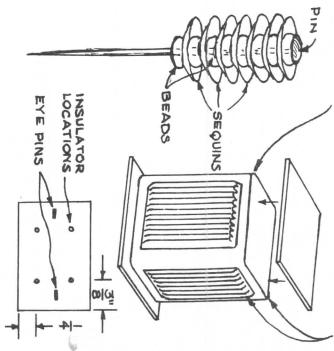


TRANSFORMER housing roof forming an upside down "V" drip of 1/32" stripwood 1 3/8" long. head building just above the doorway. bracket as in sketch and fasten to the minemolding as shown. pieces to the lower end of the brass light reflector, fabricate a light Using wire supplied, and the conveyor Glue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

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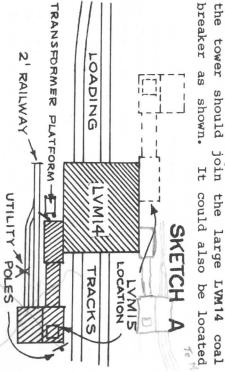
Make up insulators with a straight pin, beads eye pin and insulator insertion. and sequins that are provided. cooling vane ends of 3/4" x 1" x 1 1/2" wood block to form and eye pin locations as shown in the sketch. transformer block and glue them in place. these locations. Glue of the large transformer.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

ROUND THE EDGES OF 3" 1" X 12 BLOCK AND CORRUGATED COOLING VANES WOOD



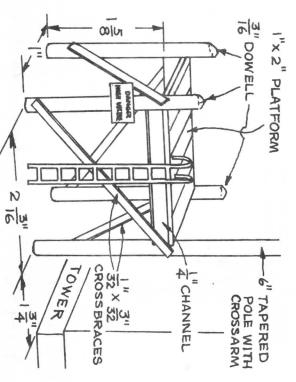
sulators either a dark brown or green color. Paint the transformer silver, and the in-

the tower should join the large LVM14 coal breaker as Wherever you locate your mine buildings, shown.



on the opposite side (dotted lines) if your TRANSFORMER PLATFORM where they are going to remain. ment but keep in mind that the suggested way tinuing, doesn't allow Ήt the 18 details best to have your buildings the suggested arrangebest. Before con-

See above sketch for suggested transformer platform location. Drill 3/16" holes 1/2" outer edge of the tower wall. poles. deep into your layout base for the upright Keep the outer poles even with the 1/2"

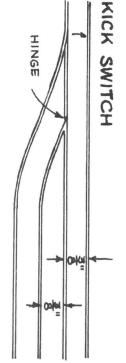


centered. Now glue the large transformer glue the brass HO ladder in place keeping it sheath platform on top of the channels. ports between the poles as shown. poles as shown. thin card stock, and fasten it to one of the "Danger - High Voltage" sign, glue it to some the center of the platform. the 11" strip supplied. to keep them level. 1/32" x 3/32" cross braces which are cut from Glue the 1/4" channel x 2" platform sup-Now glue the 1" Finally, locate and Cut out the × 2" sure Add

simulate the 2' gauge (3/8") mine tracks. to your layout base with the 1/32" side up to the 1/32" x 3/64" x 11" strips down

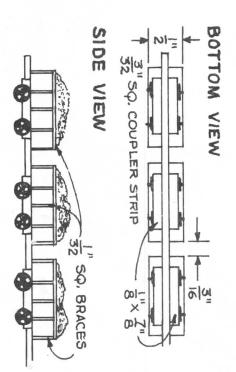
black to make 1/32" x 3/64". All 1/32" square stripwood is color coded it easy to differentiate from

paint the 1/32" rail tops silver. point which hinged at a "Kick" switch. This had only one minehead. covered with coal dirt. The switch shown is Ties on this type of trackage were usually either stock rail. These come out of the railway entrance to the Paint See large drawing and sketch "A". track flat black and carefully It is very easy to simuthe frog and threw to moveable



MINE CARS

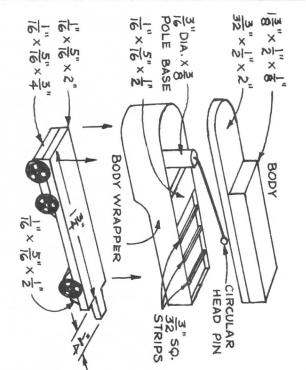
1/8" strip to the 3/8" x 1/2" x 1 1/8" coal car stripwood for a coupler strip which holds all underframes. either side of this coupler strip to form car down the center of the car bodies. bodies at intervals shown centering the strip the coal cars together. Cut an $sq \cdot x 7/8$ " pieces adjacent to and on 8" length from the 3/32" sq. x 11" Glue the coupler Then glue



to track where desired. glue. lengths and glue them to the car sides for loads. 1/2" x braces. Glue four dress snaps to the frame for car 1", shaping as shown to represent coal Paint cars flat black and glue them Glue these to car tops with Elmer's Finally, Cut 1/32" cut six pieces of sq. stripwood to 3/8" foam

LOCOMOTIVES

stripwood, round one end and glue the 1/8" x sketches. Trace body wrapper on to thin card you have a good fit, glue in place. around the base until the ends center of the straight end, stock furnished and cut out. the electric mine locomotive 1 3/8" sketches: bottom edge of the wrapper Using the 3/32" piece supplied on top of this to form base bottom edge, x 1/2" wrap the and keeping × 2" Starting at the even with body. meet. piece When card the the See



top of the "lokey" body as shown. ished, cut a 3/8" length and glue across the Then cut 3/4" and 1/2" lengths and taper the away the last (3/16") of it to form a coupler. strips 1/2" wide and glue across the From the 1/16" x 5/16" x 3 3/4" strip furnhand and with light pressure. base snap wheels, and 3/16" x 3/8" trolley coupler extended beyond the rear end centerframe beneath the lokey body, leaving the cut ends. length from the 1/16" x 5/16" strip and carve small hole in the center front of the lokey to a height of 1" above rail level. Drill a ing the frame beneath the body. complete the lokey underframe. Now glue the the headlight. glued. "trolley pole" in this dowell and bend back desired. loco flat black being careful not to as shown. equidistant points. Do this with a drill bit held in your to which Glue these beneath the 2" piece to Glue the Insert circular pin loco to track where jewel Next, cut a 2" Paint the mine headlight is Glue dress Cut 1/32" lokey smear pole head

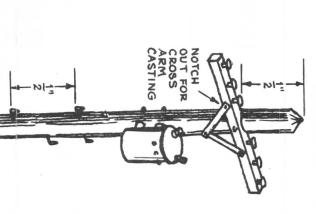
OVERHEAD WIRE SUPPORTS

these poles about 1/4" out from the outside nine rails, as the upright trolley wire supports. 1/4" deep poles drilled into your layout base former poles track height ports and glars about 2" to 2 1/2" apart. Cut horizontal sup-See large drawing. 1 1/2" placing them as per large drawing poles. These are inserted into +~ "prights about 1" above the stilized together as supce how building and trans Using 1/16" dowell cut Locate

ports.

ELECTRIC UTILITY POLES

ting crossarms, spikes, etc.. have several crossarms at different angles to crossarms to carry the lines. gestions. tric line poles. Sketch shows methods and dimensions for setnotches for crossarms and glue them in place. negotiate sharp turns or right angles. Decide where you want to locate your elec-Also, plan how you must arrange See sketch "A" for sug-Some poles



pole transformer can be silver or light grey. are silver, and arms are painted dark brown, crossarm braces WEATHERING Poles are stained insulators are green. black or brown, CIOSS-

mix a lighter color leaving some brush width spaces unpainted or corrugated sides and stroke downwards to the Using a square ended 3/8" wide brush, start color (or some white) with the flat black to rugated sheets, mix a bit of Floquil Concrete ings are coated with roofing pitch to seal it streaked and dirty for realism. this process for high lighting after you have semble weathered corrugated original flat black color. next make a from rust and weather. gone over the entire building with the first partially and it will look the best. from the edges of the scribed lines on the The corrugated siding on these mine buildline. little lighter shade of The cement foundations should all be cover Do each this across and haphazardly repeat stroke To simulate the cor-This should reentirely, sheets. the building flat black. You can

your coal mining industry. enjoyed the construction so far and will try our other first quality kits. This should conclude the second section to We hope you have

BODY WRAPPER

