

Diagonal braces in end to have bearing at bottom on head stock and against end post screwed on corner post, and at top to be checked $\frac{5}{8}$ " to form shoulder against arch rail and end post screwed to door post; end posts to be checked down to face of arch rail for brace, leaving brace flush with post, and brace to be lapped on arch rail 6" and screwed to same by four No. 20 screws $2\frac{3}{4}$ " long. Brace to be checked for other posts $\frac{7}{8}$ ", which are also checked $\frac{5}{8}$ " for brace, and to be secured to each post by two No. 18 screws 2" long.

Two wrought iron truss rods $2\frac{1}{2}$ " $\times$ $\frac{1}{2}$ " section with round ends 1" diam., flat portion to be checked into window posts on inside to full depth $\frac{1}{2}$ ", at 2' 0 $\frac{1}{2}$ " from side sill to bottom edge, and to have struts resting on side sills over body bolsters as shown; struts to be 8" wide on bottom and 5" wide on top, with end face vertical, as shown; to be $3\frac{3}{8}$ " thick, fitting between truss arch and inside panelling, and checked 1" for truss plank, to be placed with foot against window post, and filled in with a piece of furring against stud post to prevent moving; furring to be glued and nailed in place; struts to have cast iron shoes on top, with groove for edge of truss bar and pap to hold shoe on strut, as shown. Bar to be checked in window posts about $\frac{3}{4}$ " towards end, to allow room for lip on shoe against inside panelling; flat bar to be about 38' 5 $\frac{1}{2}$ " long and having about 7" at each end set down to angle of round bar ends, which are about 6' 0" long, with turnbuckle 6" long, to allow end to be taken out; ends to pass through side sills 8 $\frac{1}{2}$ " from end of ear on under side, as shown in drawing, and to be provided with nuts and cast iron shoes with inclined faces to give square bearing face for nuts, and having lip on upper face checked into side sills. Bars to be secured to alternate window posts by one No. 18 screw $1\frac{1}{2}$ " long.

Truss planks to have 1" camber from bolsters to centre of ear, and to have $\frac{1}{2}$ " rise from bolsters to ends of planks, to be checked $\frac{1}{2}$ " for window and side posts, which are also checked $\frac{1}{2}$ " as specified, but not checked for stud posts; also to be grooved $\frac{1}{4}$ " deep by 1" wide in centre of under side for rubber strips full length of ear. Each plank to be bolted down to flooring by thirteen $\frac{5}{8}$ " bolts, with heads checked in top of plank and passing through truss plank, flooring and side sill. Care to be taken to keep rubber in position, also to draw plank well down to floor and against posts, to which it is secured by two $\frac{1}{2}$ " coach screws 4" long with countersunk heads to each post, all to be as shown in drawing. Strips of rubber $3\frac{1}{2}$ " long to be returned across ends of ear and nailed on under edge of sheeting. Sheeting to be kept well down to floor to keep rubber tight.

ROOF FRAMING.

	MATERIAL.	No.	SIZE.
Top of wall plate to top of turret ear line.....		2	1 $\frac{1}{2}$ "
Window openings, on each side.....		16	2' 3 $\frac{1}{2}$ " opening.
Turret sills, not to be spliced.....	Yellow Pine.....	2	4" $\times$ 2 $\frac{1}{2}$ " $\times$ 50' 0"
Turret wall plates, not to be spliced.....	" ".....	2	3 $\frac{1}{4}$ " $\times$ 2 $\frac{1}{2}$ " $\times$ 50' 0"
Bolts for same, heads checked in sill.....	Wrought Iron.....	18	$\frac{1}{2}$ " dia $\times$ 1' 0" long.
Posts, (panel).....	Ash or Yellow Pine.....	36	2 $\frac{1}{2}$ " $\times$ 2 $\frac{1}{2}$ " $\times$ 1' 2 $\frac{1}{2}$ " long
" (intermediate).....	" " ".....	16	3 $\frac{1}{4}$ " $\times$ 2 $\frac{1}{2}$ " $\times$ 1' 2 $\frac{1}{2}$ " "
Rafters (main roof).....	White Ash.....	102	1 $\frac{1}{2}$ " thick See drawing
Joint bolts for same to turret sills, with round screw head.....	Wrought Iron.....	54	$\frac{1}{2}$ " dia $\times$ 5" long (overhead).
Screws for same to wall plate.....	" ".....	102	No. 20 $\times$ 1 $\frac{1}{2}$ " long.
" " " ".....	" ".....	102	No. 18 $\times$ 3" "
Turret ear lines.....	White Ash.....	55	2 $\frac{1}{2}$ " $\times$ 1 $\frac{1}{2}$ " $\times$ 5' 6 $\frac{1}{2}$ "
Screws for same to turret wall plate.....	Wrought Iron.....	110	No. 20 $\times$ 3" long.
Carlines.....	" ".....	10	2" $\times$ $\frac{5}{8}$ " See drawing.
Bolts for same.....	" ".....	18	$\frac{1}{2}$ " dia $\times$ 5" long.
Bolts for same.....	" ".....	81	$\frac{3}{8}$ " dia $\times$ 1 $\frac{1}{2}$ " long
Eye bolts for same to wall plates.....	" ".....	36	$\frac{3}{8}$ " dia $\times$ 5" long.