

Two wrought iron bent truss rods  $1\frac{1}{2}$ " diam., each in two pieces with screwed ends  $1\frac{3}{8}$ " diam. by  $1'4"$  long, are placed under side sills  $2\frac{1}{2}'$  from outside. The ends of each half of truss at centre of ear to be connected by a double-headed nut or turnbuckle of cast steel  $8\frac{1}{2}"$  long, with hexagonal centre  $2\frac{3}{8}"$  across flats, and at alternate ends screwed with right and left hand thread; turnbuckle to be secured by lock-nut on each rod. In the course of rods from the centre towards end of ear they pass under wrought iron extension struts set on washer plates on under side of transoms, then under bolster ends with foot  $3"$  wide by  $1"$  thick, and secured to bolster by same bolts which secure bolster to side sill, and are then set up to bottom of sill  $3"$  wide by  $\frac{3}{4}"$  thick, for a distance of  $9\frac{1}{4}"$  with square shoulder for bolster, to be secured to sill by two bolts  $\frac{3}{4}"$  diam., and have end turned up  $\frac{3}{4}"$ , and checked into sill, as shown in drawing. Distance from under side of sill to centre of truss rod  $1'0\frac{3}{4}"$ .

Wrought iron extension struts to be  $1\frac{1}{2}"$  diam., screwed at least  $4"$  at one end, with nut, and other end to have foot for truss rod, as shown in drawing. Stay for extension strut to be  $\frac{3}{4}"$  diam., with round eye at one end for strut to pass through, and other end to have foot secured to transom by two  $\frac{1}{2}"$  coach screws, as shown in drawing.

|                                          | MATERIAL.         | No. | SIZE.                              |
|------------------------------------------|-------------------|-----|------------------------------------|
| Eye brackets for truck check chains..... | Wrought Iron..... | 8   | See Drawing.                       |
| Bolts for same to side sills.....        | " "               | 16  | $\frac{3}{4}"$ dia x $10"$ long.   |
| Truck centre pins.....                   | " "               | 2   | $1\frac{1}{2}"$ dia x $2'3"$ long. |
| Plates.....                              | Brass.....        | 2   | $6"$ dia x $1"$ thick.             |
| Screws for same.....                     | "                 | 8   | No. 18 x $1\frac{1}{2}"$ long.     |

Eye brackets for truck check chains to be placed longitudinally, and secured to under side of side sills at  $1'5"$  from end of frame to centre of first eye, and  $10'11"$  from centre to centre of eyes.

Truck centre pins to be made of wrought iron  $1\frac{1}{2}"$  diam., with good solid heads. Heads to be partially sunk in floor, and covered by a round brass plate  $6"$  diam. by  $\frac{1}{4}"$  thick; or inscription plate of maker, to be sunk flush with top of floor and secured by four No. 18 brass screws  $1\frac{1}{2}"$  long.

#### UPPER OR BODY FRAMING.

|                                                                                       | MATERIAL.              | No. | SIZE.                                                                                    |
|---------------------------------------------------------------------------------------|------------------------|-----|------------------------------------------------------------------------------------------|
| Top of sill to top of wall plate.....                                                 |                        |     | $6'11\frac{1}{2}"$                                                                       |
| Window openings, on each side.....                                                    |                        | 16  | $2'0\frac{1}{2}"$                                                                        |
| Corner posts.....                                                                     | White Ash.....         | 4   | $5\frac{1}{2}"$ x $5\frac{1}{2}"$ x $7'6"$                                               |
| Screws for same (to headstock).....                                                   | Wrought Iron.....      | 2   | No. 24 x $3\frac{1}{2}"$ long.                                                           |
| Screws for same (for side and end posts).....                                         | " "                    | 48  | No. 20 x $2\frac{1}{2}"$ long.                                                           |
| Door posts.....                                                                       | White Ash.....         | 4   | $5\frac{1}{2}"$ x $5\frac{1}{2}"$ x $7'0\frac{1}{2}"$                                    |
| Screws for same (for end posts).....                                                  | Wrought Iron.....      | 24  | No. 20 x $2\frac{1}{2}"$ long.                                                           |
| Window posts.....                                                                     | White Ash.....         | 64  |                                                                                          |
| Side ".....                                                                           | " "                    | 8   | $5\frac{1}{2}"$ x $1\frac{1}{4}"$ x $7'0\frac{1}{2}"$                                    |
| End ".....                                                                            | " "                    | 20  |                                                                                          |
| Stud posts below windows.....                                                         | " "                    | 32  | $5\frac{1}{2}"$ x $1\frac{1}{4}"$ x $2'4\frac{1}{2}"$                                    |
| Wall plates (not to be spliced).....                                                  | Pitch or Red Pine..... | 2   | $6\frac{1}{2}"$ x $2"$ x $49'7"$                                                         |
| The rods through wall plates and side sills, with $\frac{5}{8}"$ nut at each end..... | Wrought Iron.....      | 38  | $\frac{3}{4}"$ dia x $7'0\frac{1}{2}"$ long<br>with ends $\frac{5}{8}"$ dia x $1"$ long. |