

inch, and 6 inch x 10 inch sills as marked. All angles and joints to be halved and all bearings to be pinned into posts.

Frame.—Build the walls, partitions and double partitions with 2 inch x 4 inch studs at 16 inch centres, 4 inch by 4 inch corner and opening studs and plates, with heads and sills of 2 inch by 4 inch. Run 1 inch by 4 inch girts to receive the ends of first floor joists and 1 inch by 6 inch long angle braces, both notched in. All studs to be in one length and to rest directly upon the beams excepting one side of the double partitions, which must rest on the floors.

Joists.—Lay to the ground floor 2 inch by 12 inch at 16-inch centres. Trim for staircase and trap over ice-house which will be 30 by 36. No ground floor to the ice-house.

Trusses.—The floor over ice-house and roof above is to be carried by two queen post trusses of the following sizes:—

Principals, 8 inch x 12 inch.

Tie beams, 8 inch x 12 inch.

Queen post, 8 inch x 8 inch.

Struts, 6 inch x 6 inch.

Straining beam, 8 inch x 12 inch.

Purlins, 6 inch x 8 inch with $1\frac{1}{4}$ -inch upset king post rods.

Put $\frac{3}{8}$ inch x $2\frac{1}{2}$ inch wrought iron straps all properly framed together.

Put under the ends of these trusses 4 inch x 8 inch posts, braced both sides and tenoned into beams and plates and treenailed. Bolt on each side of tie beams 2 inch x 4 inch with $\frac{3}{4}$ -inch bolts, having heads, nuts and washers set at 16-inch centres all along. Notch the end of joists into these beams so that these joists over ice-house will run longitudinally whereas the remainder will run across the building.

Roof.—Continue purlins of 4 inch x 6 inch the whole length and support same with 4 inch x 4 inch posts off floor joists. Build the roof with 2 inch x 6 inch rafters at 16 inch centres, well notched and spiked. 1 inch x 10 inch ridge board.

Bridging.—Run between each bearing of joists 2 inch x 3 inch double herring bone bridging, accurately cut and double nailed at each end.

Sheeting.—Sheet the whole of the outside studs and rafters and the centre of double partitions with 1 inch thickness boarding about 8 or 10 inches wide. The inside of walls on both sides of partitions, ceiling of freezers and cold stores and under-side of rafters and the double ground floor and single first floor to be planked with $\frac{7}{8}$ -inch x 6 inch tongued and grooved.

All boards to break joint over bearings laid in single headings and to be blind nailed after being driven home tight and nailed to each bearing.

Shingling.—Cover the whole of the outside studding and roof with the best quality sawn pine shingles laid $4\frac{1}{2}$ inches to the weather on roof and 5 inches on walls, and all nailed with two galvanized iron roofing nails. Run $\frac{7}{8}$ inch ridge boards with 2 inch roll on top.

Sawdust Packing.—Fill in between all studs and outside walls rafters inside partitions and joists of first floor over freezers and cold stores with dry hemlock sawdust closely packed.

Doors.—Build all doors, both single and double thickness, with 2 x 4 inch studding, the same thickness as the walls, and sheet both sides with $\frac{7}{8}$ x 6 inch tongued and grooved beaded sheeting, and $\frac{5}{8}$ -inch splayed jambs all hung with 18 inch wrought iron strap hinges and fastened with heavy bow handle latch, and to the doors of cold stores and front entrance put good dead locks. Section of doors shown on plan number seven. Put to the large doors of ice-house 30-inch strap hinges with bolts top and bottom.

Flaps.—Over each cylinder and in the centre of each cold store put header between joists and form a splayed hole as large as possible in width by 16 inches long when finished. The manhole in centre over each cold store is to be 24 inches long, all as indicated. Build the lids the same thickness as floor and of similar materials filled in with sawdust. Put rope handle to each; see section.