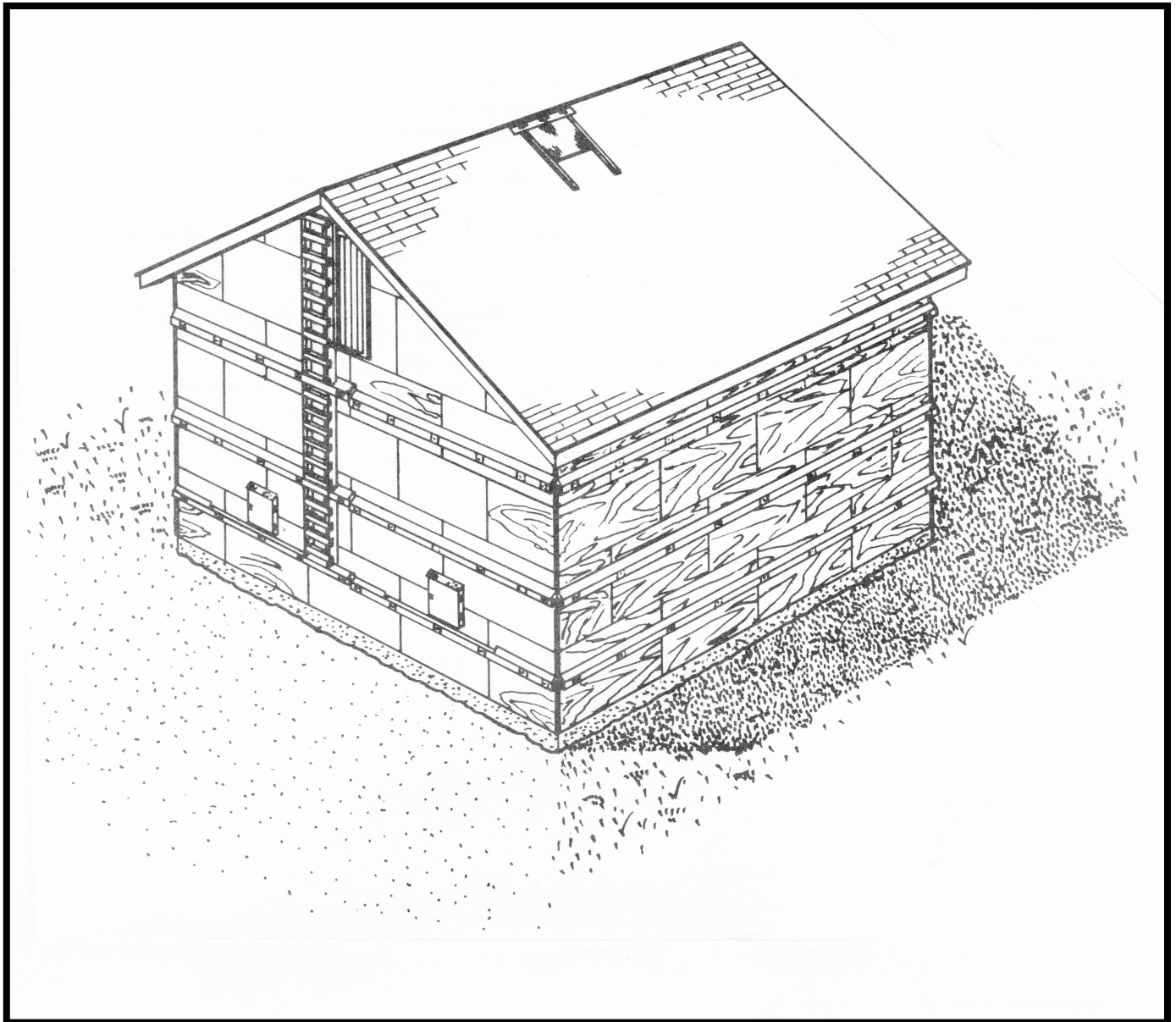




MULTIPLE BIN GRANARY – 13,200 BUSHELS



DEVELOPED BY CANADA PLAN SERVICE

372-16

MULTIPLE BIN GRANARY 13,200 BUSHELS

**CPS
PLAN 7204**

This is a detailed plan for a large capacity grain storage unit with four square bins. This granary may be constructed in multiples of 2 bins, i.e. 4, 6, 8 bins.

SIZE

The granary shown in the plan is 32 ft by 32 ft with four 16 ft square bins each having a capacity of 3300 bushels. Plate height of this building is 16 ft above foundation.

LOCATION

Since this is a permanent granary careful planning is essential to correctly locate the granary. The granary must be easily accessible to large trucks and long grain augers and be on high ground so the drainage is away from it.

Wind and snow control in the vicinity of the granary should be considered so that grain can be hauled from the granary in the winter time, if necessary.

CONSTRUCTION

Details are provided for reinforced concrete footings and a 6 in thick concrete floor.

The walls for this granary are framed with 2 inch by 6 inch studs placed 1 ft on center and sheathed with 3/8

inch plywood. These walls are reinforced by 1/2 inch steel tie rods fastened to 4 inch wales. Two alternative methods of installing the tie rods are shown.

A door is built into each end of the building which provides access to a catwalk along the top of the bins.

The roof is constructed of 2 inch by 6 inch rafters 20 ft long placed 16 in. on center. The choice of roofing materials and nailing girts is left to the builder.

GRAIN HANDLING SYSTEM

All four bins in this building are filled through the roof hatch. Adjustable spouts may be required at the end of the auger to direct the flow of grain closer to the centre of the bins.

A detailed plan of an access door with auger shield panel is provided in this plan. One access door is built into each bin.

A grain sump is shown in the center of the floor of each bin to facilitate unloading.

ELECTRICAL PLAN

An electrical plan for this building is provided indicating location of outlets and sizes of conductors required.