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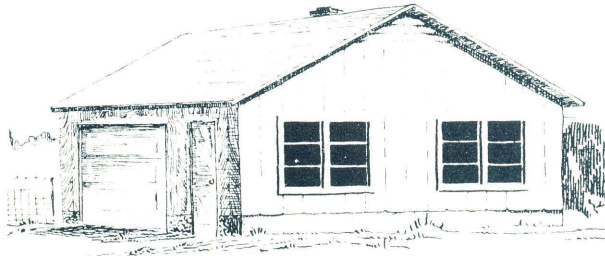
Farm Machinery Housing
Michigan State University Agricultural Experiment Station
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B.F.Cargill, R.G. White, Agricultural Engineering
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FARM MACHINERY HOUSING

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Extension Specialists in Agricultural Engineering



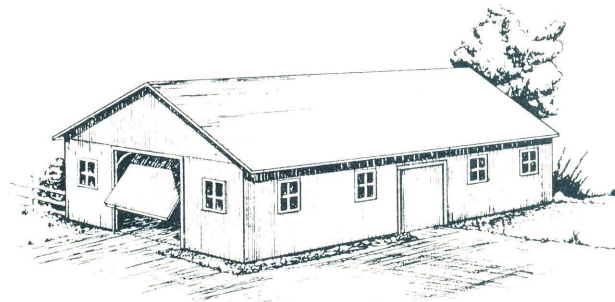
24' x 24' WORKSHOP

Plan No. 74103 2 sheets

An efficient layout for a farm workshop, including wood, metal, and welding area. Unit can be built as a separate building or as an addition to a machinery shed. Plan is illustrated with a 9' overhead type side door. Door has an 8' clearance. Caution should be taken in the selection of this building, if extra large or high farm machines will be serviced. Building has masonry foundation and truss rafter roof. Trusses are spaced 2' on center for convenience in attaching ceiling material, if open ceiling is desirable, obtain 4' on center Truss Plan No. 703-C1-57 ring-bolt or Plan No. 703-C1-59 glue-nail construction.

◆ 24' x 24' WORKSHOP WITH END OPENING DOORS

Plan No. 741-C1-18 3 sheets



32' or 36' MACHINERY STORAGE BUILDING

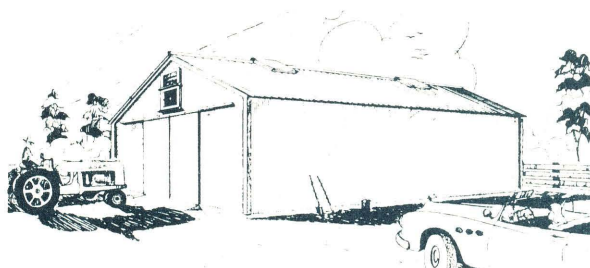
Plan No. 74140 3 sheets

End opening doors provide a central drive-through building, but smaller side wall doors add to the convenience of the storage building. Plan shows a 16' door, 10' high. This door will admit most farm equipment, except some self-propelled combines. Larger combines often require a space 16' x 26' and doors 12' to 14' high. Consider large equipment when planning machinery storages. Often side opening plans as Plan No. 741-C1-31 are more efficient for large machines. The building has a masonry foundation, frame walls, and a trussed rafter roof. Trusses are spaced 12' on center. If 4' on center truss spacing is more desirable, select Truss Plan No. 703-C1-65 ring-bolt or Plan No. 703-C1-67 glue-nail construction.

◆ 32' or 36' POLE MACHINERY SHED

Plan No. 74141 3 sheets

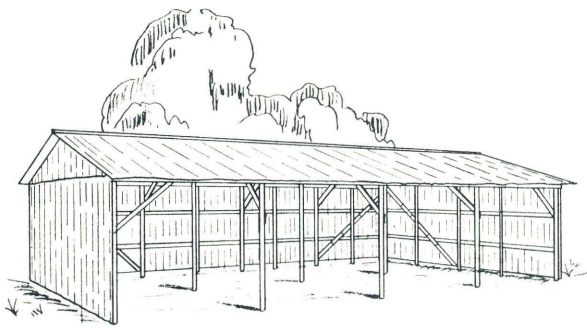
Plan is similar to Plan No. 74140 except for pole construction. Truss rafters are spaced 12' on center. Select Truss Plan No. 703-C1-65 ring-bolt or Plan No. 703-C1-67 glue-nail, if 4' on center truss spacing is more desirable.



28' x 40' EAR CORN DRIER CONVERTIBLE TO MACHINE SHED

Plan No. 75513 3 sheets

This building has a false floor above the concrete floor to provide an air chamber for artificial drying. With the false floor removed, the building becomes a machine storage unit. Plan shows a 12' end door and 10' plate. Drive-through machine storage units are not as efficient as side-opening units for larger machines. Caution should be made in selection of this plan if 4-row equipment or self-propelled combines are used on the farm. A 16' door is necessary for most 4-row equipment. Building is frame construction with metal roof over 2' x 6" rafters spaced 4' apart.



24' POLE MACHINERY STORAGE

Plan No. 741-C1-30 3 sheets

30' POLE MACHINERY STORAGE

Plan No. 741-C1-31 3 sheets

Pole construction provides an economical machinery storage building. Plan is illustrated with a center pole in both 24' and 30' widths. If clear span center is desired, use the truss rafter plan. Each plan includes 1/6 pitch truss rafter detail with glue-nail or ring-bolt joints and optional side doors. Pole spacing is shown 14' on center along the side. If 4-row equipment or self-propelled combines are used on the farm, one or more sections or bents should have a 16' pole spacing. Plan illustrates a 10' or 12' plate. Use caution when you build, as combines and choppers often require doors 12' high. Some self-propelled combines need doors 14' high and 16' wide.

COMBINATION MACHINERY STORAGE AND LIVING QUARTERS

Plan No. 712-C1-42 1 sheet

The combination building has a 24' x 25' living quarters complete with kitchen, living room, bath, and two bedrooms and a 25' x 36' machinery storage or garage area. This plan is illustrated with frame and truss rafter roof construction using 2" x 6" rafters 2' on center. Roof pitch is 5/24 (5 to 12). The machine storage area has 12' doors and an 8' plate. The storage area has limited use for large equipment, 4-row machines, or self-propelled combines.



Working drawings may be obtained at cost from the Agricultural Engineering Department, Michigan State University, East Lansing, or your County Agent.

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