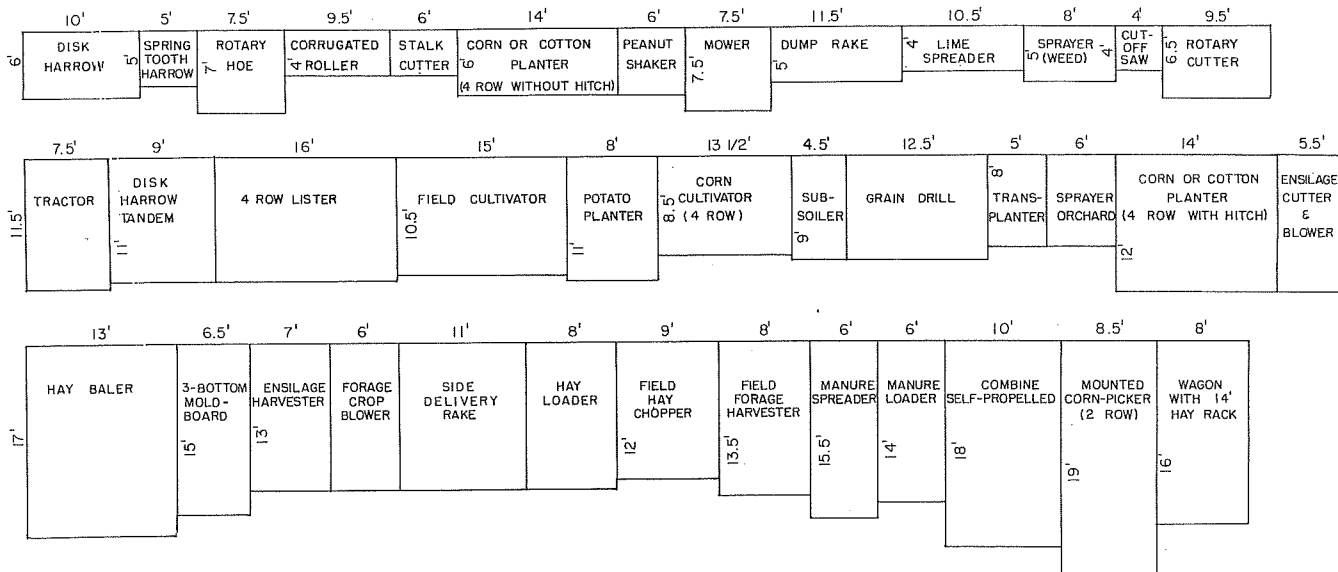


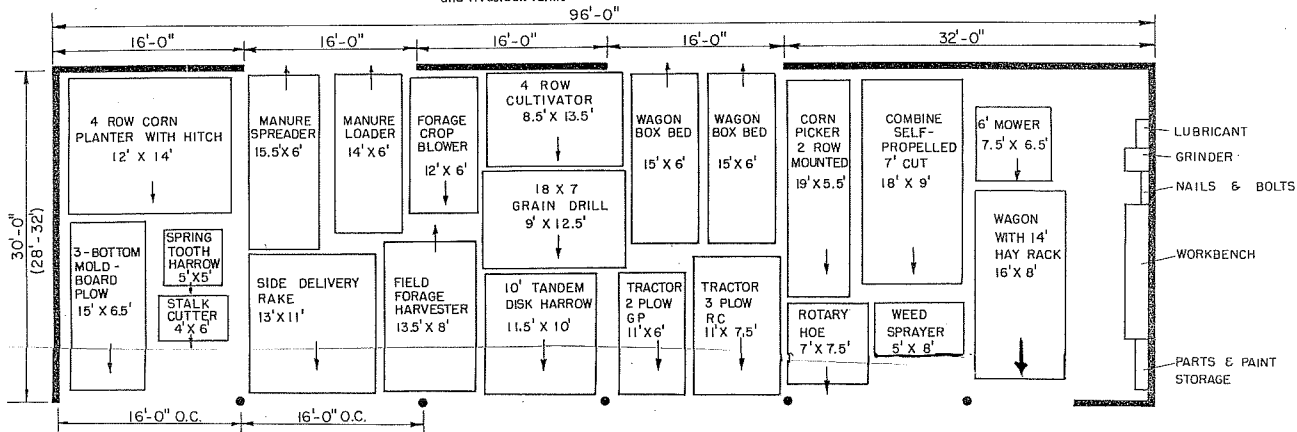
MACHINERY SIZES

Measure actual equipment to be stored, or trace from drawings below to make cutouts.
 Arrange cutouts in space available or proposed.
 Scale: 1/16" = 1'-0"



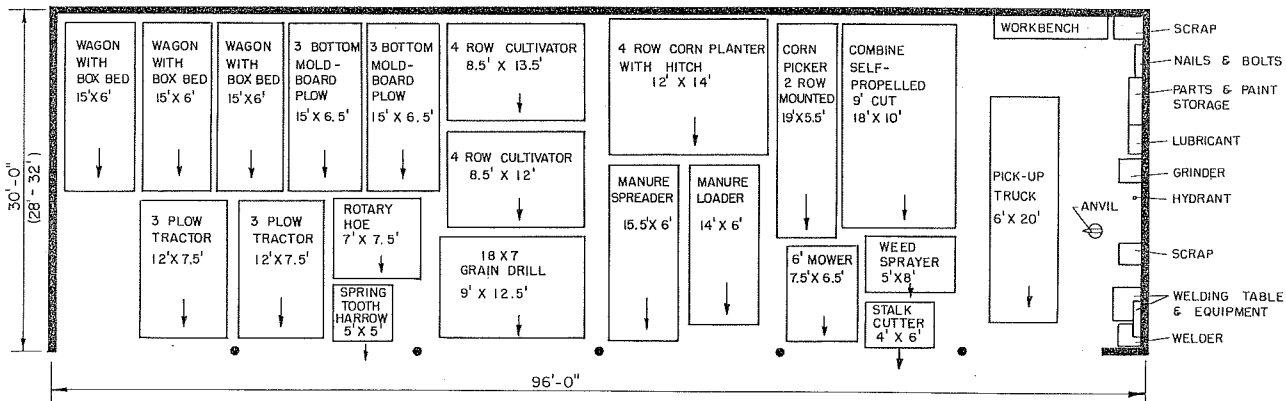
30' OPEN FRONT + REAR DOORS

Equipment shown is typical for a 160-acre grain and livestock farm.



30' OPEN FRONT

Equipment shown is typical for a 240-acre cash-grain farm.



SMALL SHOP IN END OF MACHINE SHED

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MACHINE STORAGE

WILL IT PAY?

A good building for machine storage will increase the useful life of machines, decrease maintenance costs, and increase trade-in value.

CHOOSING A BUILDING

Side access:

An open front shed is fine for milder climates, but doors are recommended for more severe climates.

Drives across the building between doors in both walls are handy for parking tractors and wagons, etc.

End access:

Buildings 36' or more wide can have end doors and a lengthwise alley. Some side doors are convenient.

Doors:

Most machines will fit through a door only 10' high. Combines may require more height.

At least one door should be large enough to take the biggest machine - this can be in the endwall, or at the end of the building where natural slope increases building height.

Overhead doors are most convenient with rolling and hinged ranking 2 and 3.

SPACE REQUIREMENTS

Measure actual equipment to be stored, or use the typical sizes laid out in this plan.

Allow about 15% more than the space taken up by the machines. This leaves clearance around the machines and a little room for expansion.

SHOP

WILL IT PAY?

A good farm shop makes it easier to keep machines in good operating order. Well-serviced equipment permits:

- On-time field work for higher quality.
- Higher crop yields.
- Greater custom revenue.
- Lower maintenance costs.
- Higher trade-in or resale values.

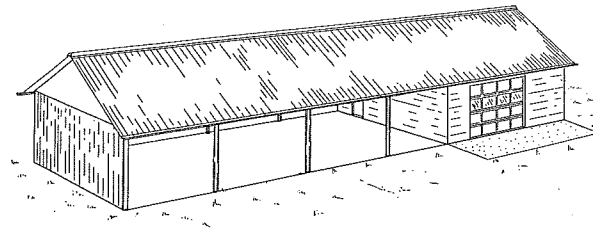
CHOOSING A BUILDING

An insulated building with a concrete floor can be used the year around. Use a non-flammable interior lining. A large service door (10' high minimum) is needed; one or more man doors are handy. Combines may need larger doors. The size of the shop will depend on farm size, equipment to be repaired, and tools used. The working space should be at least twice as big as the biggest machine.

Allow plenty of room for storage, and some space for new tools and equipment.

INSIDE THE SHOP

Arrange tools and storage in convenient areas - carpentry, metal working, etc. Put workbenches against walls, large tools near walls. Isolate oil and grease storage to reduce fire hazard. Lots of lighting and outlets increase convenience and safety.



MACHINERY HOUSING & REPAIR

PLAN NO. 74118

SELECTING A SITE - shop and machine storage.

A well-drained site with lots of room makes it easier to move machines around the shop and storage areas.

At least 50' of paved or gravel driveway will be needed in front of doorways.

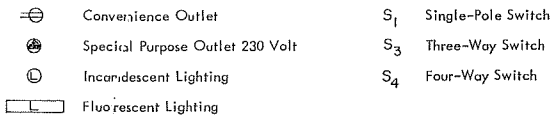
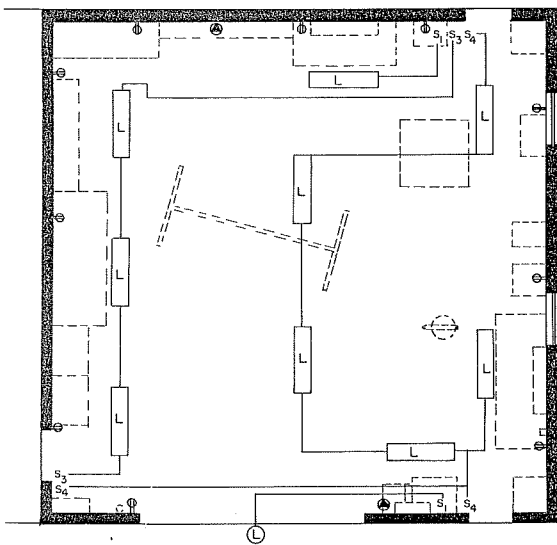
Storage and repair areas should be handy to service drives, and near electric and water lines.

Allow room for expansion.

Orient the building so the open side or main doors are away from winter prevailing winds.

Raise the floor 6" to 12" above outside grade.

MACHINERY HOUSING PLANNING AND SAMPLE LAYOUTS TYPICAL MACHINERY SIZES FARM SHOP PLANNING AND ARRANGEMENTS



SAMPLE LIGHTING

LIGHTING

Provide one 40-watt fluorescent tube per 30-35 sq. ft. or one 100-watt incandescent bulb per 25-30 sq. ft. Arrange the lights in rows, with one row just behind the front edge of workbenches.

ELECTRIC FLOOR HEAT

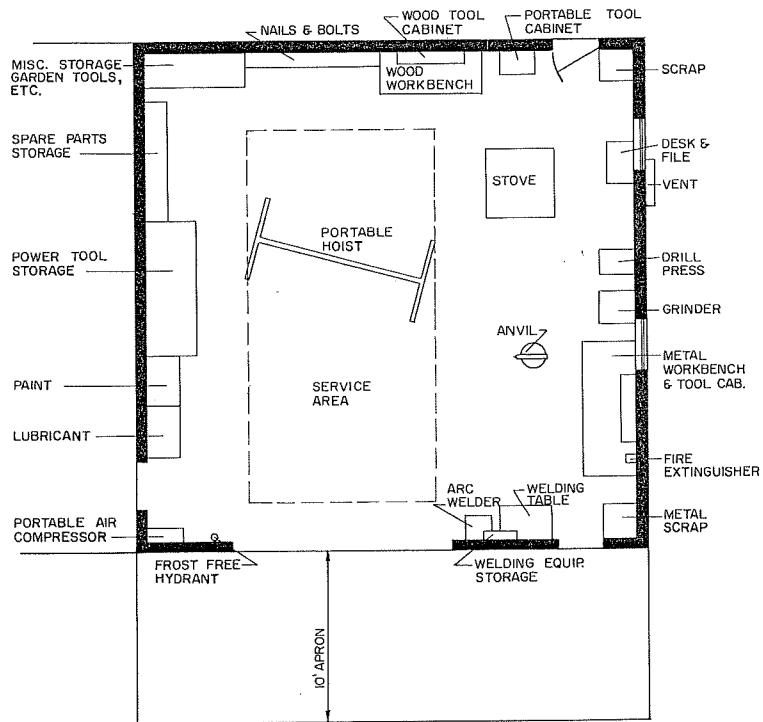
Electric heating cable (10 watts per sq. ft.) buried 1" deep in a floor over 1" of expanded polystyrene insulator will help keep feet warm and the floor dry.

WIRING

All wiring should meet code requirements. Buildings used to store vehicles or fuels, or with other potential hazards, should meet special wiring requirements. Check with power supplier.

All outlets should be grounded, with up to 6 double-convenience outlets per 20 amp, 110-volt circuit. Locate outlets about 8' to 10' apart.

Circuits for welders and other special equipment should be separately fused and have motor-protection devices.



30' X 30' FARM SHOP

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