MWPS-73111

36' Wide Hay Barn

CAUTION!

Additional professional services will be required to tailor this plan to your situation, including but not limited to: assurance of compliance with codes and regulations; review of specifications for materials and equipment; supervision of site selection, bid letting and construction; and provision for utilities, waste management, roads or other access. Furthermore, any deviation from the given specifications may result in structural failure, property damage, and personal injury including loss of life.

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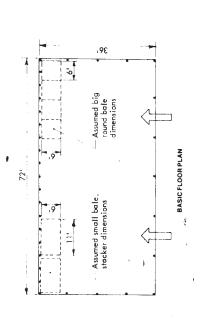
MIDWEST PLAN SERVICE

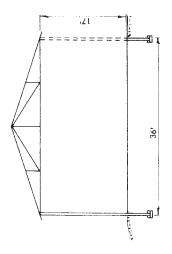
Cooperative Extension Work in Agriculture and Home Economics and Agricultural Experiment Stations of North Central Region - USDA Cooperating

36' Wide Hay Barn

Title Page

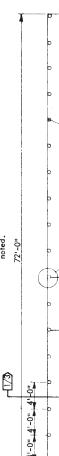
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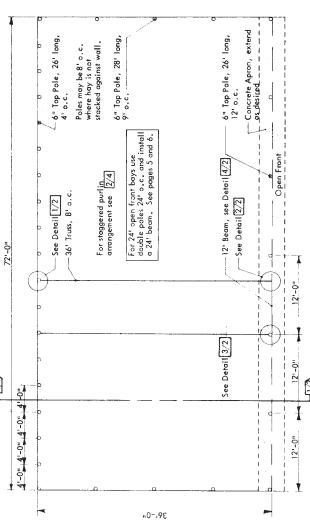


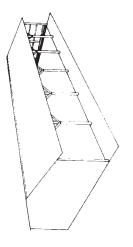




North or West







- Notes

 1. This plan shows 17 clearance under sidewall griders. After this dimension as required to match your equipment, faither this dimension as required to match your equipment. The think of the policy of the
- or. 190-6 idameter x 6' long big round bales; 280 Ton' or. 6000-16' x 18' x 56' hases; 270 Ton' Weights based on, small bales-15 pcf large bales-12 pcf large bales-12 pcf s. Lightiming protection recommended Use a "Master Larle" system

Floor Plan
Post Fooring Details
Truss Ream Details
Truss Poserications
Bein of Materials
Truss Pole Punin Detail
Truss Pole Punin Detail
Truss Pole Punin Detail
Truss Pole Plate Detail
Overhang Rafter Detail
24: Beam To Post Detail
24: Laminated Beam Assern
24: Laminated Beam Assern Table of Contents Description

MAN MIDWEST PLAN SERVICE

Cooperative Extension & Research in Agriculture & Home Economics in the 12 North Central Universities—USDA Cooperating

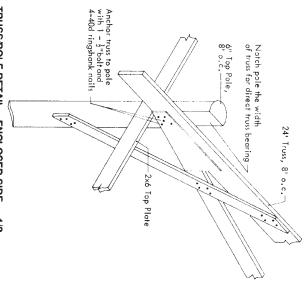
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36.

6 Pages plus	Plan No	Page
36' Truss Sheet	mwps 73111	# ;o

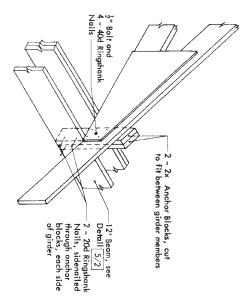
FLOOR PLAN—1/1
One Sidewall Open
Endwall Length is for 4/12 Slope.

Pages 2, 4, 586 similar to pages 2, 685 of 73110

4



TRUSS/POLE DETAIL—ENCLOSED SIDE —1/2



(5'-0" min)

Original Grade Compacted Fill, as required

Embedment Depth

TRUSS/BEAM DETAIL—OPEN FRONT SIDE —2/2

* Thickness

亦

Concrete Pad, cast-in-place or pre-cast

-Concrete Collar, cast-in-place, for uplift and fixity

½" × 16" Rod

*Diameter

MIDWEST PLAN SERVICE

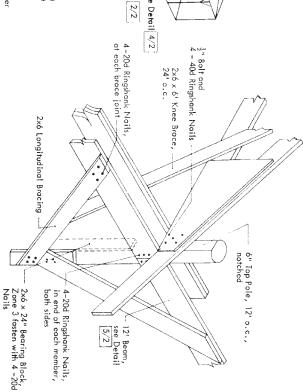
Plan No Page mwps- 73110 2 of 8 Copyright C1980 Midwest Plan Service, Ames, IA 50011

24' WIDE HAY BARN

See Detail --See Detail 2/2 See Detail 4/2

18" Dia x 6" Thick ? Endwall Posts (8' o.c.)
18" Dia x 6" Thick ? Sidewall Posts (8' o.c.)
20" Dia x 6" Thick ? 12' Opening * Footing Size

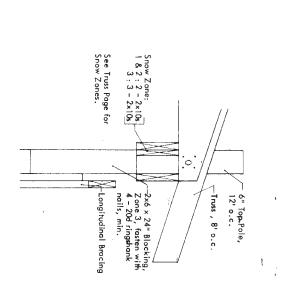
Extend embedment depth as required to place footing on undisturbed soil. For large diameter footings, use smaller diameter auger and fare the bottom of the hole with Lineman's spoon.



TRUSS/POLE DETAIL—OPEN FRONT SIDE —4/2

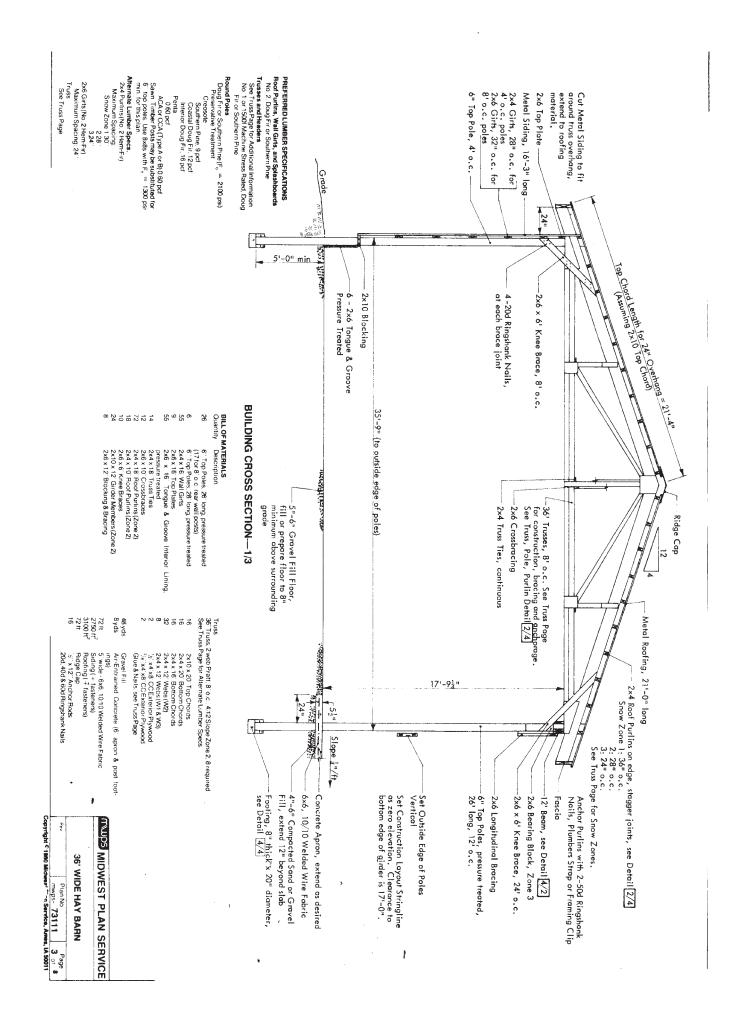
-Treated Pole

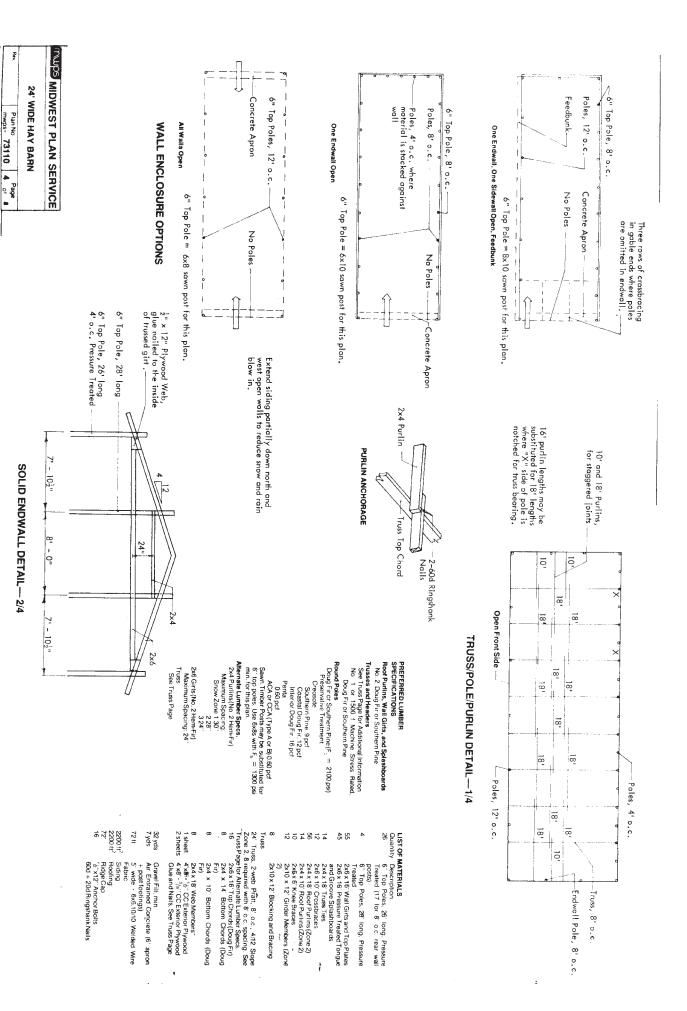
Tamped Earth Backfill



POST FOOTING DETAIL—3/2

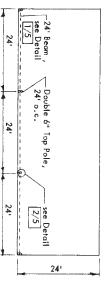
BEAM DETAIL - 5/2



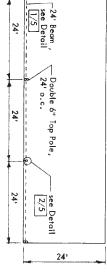


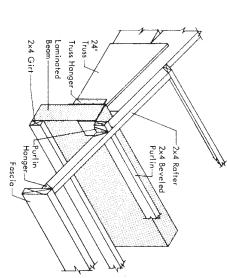
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24' Truss —

∟Purlin Hanger

Fascia-

Laminated Beam-Truss Hanger

-2x4 Girt

—Siding

24' truss with 6'2" cut off heel. Extend gussets 6'2" to the left so they are not shortened.

SECTION-1/6

2-60d Ringshank Nails— 2-30d Ringshank Nails

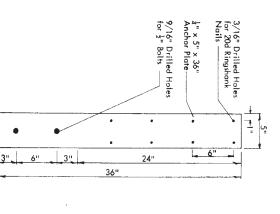
-2x4 Beveled Purlin, butted into 2x4 rafters

-2x4 Rafter, ot 2 trusses supported by beam extended from purlin to fascia

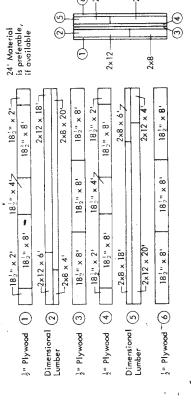
-Roofing

Gutter --

OVERHANG RAFTER DETAIL- 2/6

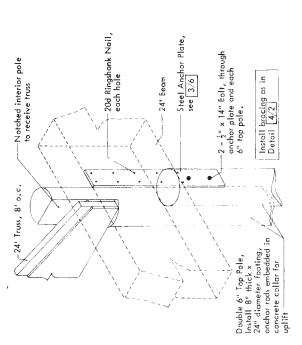


ANCHOR PLATE DETAIL-3/6



24' LAMINATED BEAM ASSEMBLY-1/5

For snow Zones 1, 2, and 3



24' BEAM TO POST DETAIL-2/5

24' Beam-for 24" Wide Sidewall Bays

MATERIALS

Lumber

This beam is designed for use of Douglas Fir-Larch (No. 1, MC19) or Southern Yellow Pine (No. 1, MC19).

Use clean and smooth lumber. Do not use cupped or twisted lumber.

Plywood

Use 1/2" C-C Ext. ("Identification Index" = 32/16)

Clue

Casein (MMH-125A, type II, mold resistant) is not waterproof, but is highly water resistant. Resorcinol resin glue is waterproof and should be used if the beam is to be exposed to unusual moisture conditions.

Follow the manufacturer's specifications for mixing, pot life, temperature during use, etc.

BEAM CONSTRUCTION

- Assemble the beam in two pieces, layers 1, 2, and 3 and layers 4, 5, and 6. Clamp the natrow faces of the dimensional lumber together (Layer #2 = 2x8 + 2x12 = 2x20). Spread glue on the plywood (.ayer #1). Nail plywood to layer #2 and 6d box nails, preferably galvanized or cement coated, 4" o.c. both ways. Glue should squeeze out from the edges of the beam. Remove the clamps; glue and nail Layer #3 plywood to the other side of the dimension lumber in a similar manner. Then assemble layers #4, #5, and #6.
- 2. Final Assembly use method a, or b.
- Clamping method.
 When both halves of the beam have been assembled, apply glue to the two remaining inside surfaces. Place clamps about 2' apart on the fully assembled beam and leave on the 24 hours.
- b. Weighting method. When both history of the beam have been assembled, apply glue to the two remaining inside surfaces. Lay the beam on a level surface. Place sufficient weight on the fully assembled beam to squeeze glue out from the edges of the beam. Leave on for 24 hours.

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