MWPS-72695

Swine Breeding Building

This plan is for a 24' x 60' stud-frame building with 10 stimulus stalls, 8 boar pens, a sow-gilt pen, and a sow holding pen. Year-round mechanical ventilation, totally slotted floors, and liquid manure storage are provided.

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.

WARRANTY DISCLAIMER

This plan provides conceptual information only. Neither midwest plan service nor any of the cooperating land-grant universities, or their respective agents or employees, have made, and do not hereby make, any representation, warranty or covenant with respect to the specifications in this plan. 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.

MIDWEST PLAN SERVICE

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

Swine Breeding Building
Totally Slotted Floor
Title Page

MIDWEST PLAN NO. 72695

Plan MWPS-72695 Swine Breeding Building Totaliy Slotted Floor

This plan is for a 24 x60' stud-frame building with 10 stimu-lus stalls. 8 boar pens, a sow-gift pen, and a sow holding pen. Year-round mechanical ventilation, totally slotted floors, and fiquid manure storage are provided.

General Specifications

less than full.

Protecting swine from fan failure

We know of no device that will successfully ventilate a hog house automatically in the case of failure of one or more fans of the whole electric supply system.

• Install a loud automatic warming system to alter anyone at or near the farmstead.

• Have someone bably-sit your amminasity out are gloing to be away for more than a lew hours. If there are storm warmings out, or if your herd is in an especially sensitive stage (a number of new, brown filters; it is example).

• Do it is not never the contractions on what to do in not weather, mild weather of odd weather, who to prote of or additional advice. etc.

• Prepare walk doors and perhaps summer verifiation parets to be proped open part way of fully in the proper open part way of fully contracts as stand by generator to augment hand-opened coordiers against by generator to augment hand-opened coordiers automatic telephone that dials selected numbers when power falls.

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Manure storage pit

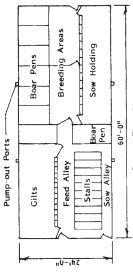
Pit depth is based on 0.15 cu fu'day manure per sow and 0.19 cu ft/day manure per boar, 6" left in pit after pumping, 10" freeboard, and 12" additional clearance to improve underfloor ventilation.

Building space and production cycles

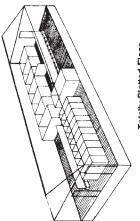
Although many variations are successful, the following are typical meat hog production systems. Plan building capacity for some extra animals to allow for large litter size or slow growth

a) Move sows and ittens to sow-jop nursing pens at 1-3 weeks, depending on how soon he farawing salis are needed for the next sows. Ween pigs at 3.6 weeks, putling 2.3 ittens pen. Return sows to breeding and gestalion flacilities. b) Wean pigs at 4-6 weeks (20.25 lb). Move pigs to nursery, putting 2-3 litters pen. Return sows to breeding and gestation facilities. c) Wean pigs at 3-4 weeks (12-15 lb) to a prenursery, putting 1-2 litters;pen. At 6-8 weeks move pigs to a nursery, putting 2-3 litters;pen. Return sows to breeding and gestation facilities. Move pigs to finishing unit at 10-12 weeks (60-75 lb). Move

pigs to larger pens, or reduce number of pigs per pen, at about to weeks (150) weeks (150).



General Floor Plan



Totally Slotted Floor

Slat designs

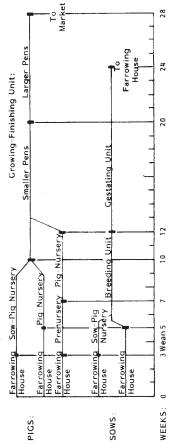
Dimensions in these plans assume concrete slats as listed below and may need to be adjusted for other designs or materials. Mow about ½* at each let of a stall for construction and grouting.

Use 4* wide stats spaced 1* apart in pen and stall areas in breeding area, use roughered 4* wide stats spaced 1* apart.

| Slat | Pig nursery* | Finishing | Farrowing, Sow-pig inishing Nursery, Gestation (stalls)*** Midth y denth lower har size. | Gestation (pens), Boar (pens) |
|--|-----------------------------|-------------|---|----------------------------------|
| 4 | 4"x4",#3 | 4"x4".#3 | 4"x4" #3 | 4"x4",#3 |
| .9 | 4.x4.#3 | 4"x4':5",#4 | 4"x4";"#4 | 4.x4½,#4 |
| œ | 4.x5.#3 | 5'x5'.#4 | 4"x6",#4 | 6"x5",#5 |
| 10, | 4.x5. #4 | 5,x2;";#2 | 4'x6',#5 | 6'x6'/2',#5 |
| Design | Design Loads | | | |
| Slats | Slats Per foot of slat | ilat | | |
| | 15 20 20 20 | 100 pif | 150 pH | 150 plf |
| Beams | Beams, Per sq ft floor area | or area | | |
| E PER PER PER PER PER PER PER PER PER PE | s 35 pet | 50 nsf | 65 pst | 65 psf |

Concrete slats are not recommended for pigs under 40 ib. *For sows in stalls, use a maximum of 4" wide slats.

TYPICAL HOUSING CYCLES



Lumber Specifications

Roof Purlins and Studs Construction Grade (Doug Fir, Southern Pine or Hem Fir)

Trusses See Truss Page

dex" = 20:0) Siding and Wall Lining and Celling—%" or ½" c-c Ext with Medium Density Overlay Roof Sheathing-3/6" c-c Ext ("Identification In-

FRP Plywood is a composite material using ply-wood overlaid with plastic. It is moisture resistant and more durable and easier to clean than ply-wood.

Pressure Preservative Treated (Southern Yellow Pine or equivalent) Creosote—10 pct, Penta—0 50 pct, ACC—0.50 pct, ACA or CCA (Type A or B)—0.40 pct. Sills and Fascia

P. T. means lumber pressure preservative treated against insect and fungus attack.



Section & Detail Indicator

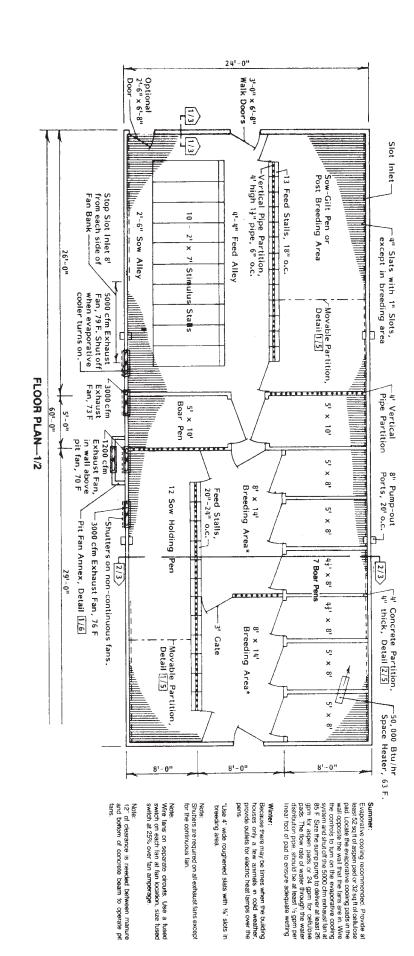
INVEST PLAN SERVICE

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

SWINE BREEDING BUILDING Totai∿ Slotted Floor

72695 1 of 8 6 Pages plus Pran No. 24 Truss Sheet mwps 7

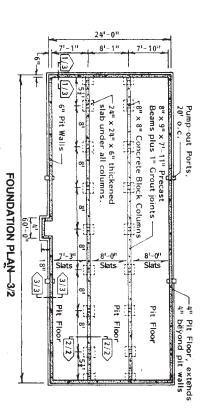
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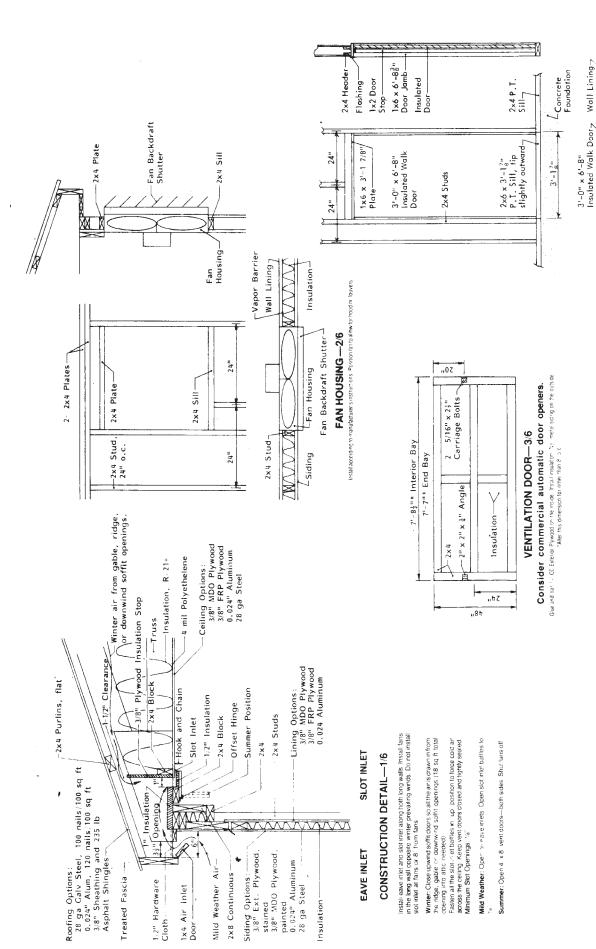




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∟2-#3 Bars⊐ ⊂2-#7 Bars7



MUDD MIDWEST PLAN SERVICE SWINE GESTATION BUILDING Hey

24 mil Polyethylene

-1x2 Irim

1x2 Door Stop 111111

Siding

Insulation

WALK DOOR DETAIL-4/6

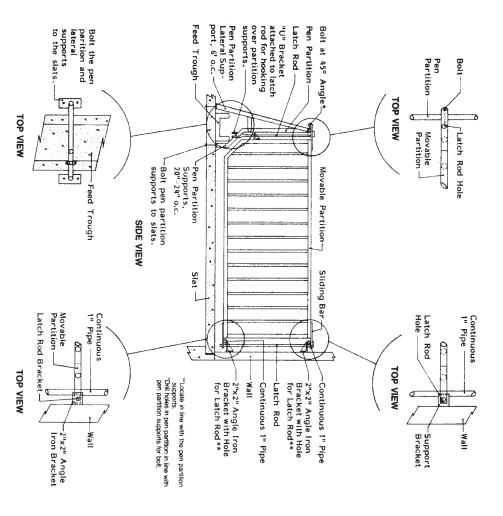
Wall Lining

-1x2 Trim

1x3 Trim

Page . Three Rows of Stalls, 120 Sows | Plan No | 72601 | 6

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MOVABLE PARTITION-1/5

CONCRETE PARTITION—2/5

FORMING DETAIL



