MWPS-72681 Farrowing House

Flushed under slats, 20 sows. This plan is for a 24'x70' (or 66') stud-frame building housing 20 sows in farrowing stalls. Year-round forced ventilation is provided. Manure is flushed from pit under slotted floor.

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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tion variation and grouting. Space slats % apart in farrowing stalls, with the slot widened to 1" behind the sows. For other swine buildings, use 1"

Dimensions in these plans assume concrete slats as listed below and may need to be adjusted for other designs or materials. About ¹⁰ is allowed at each end of a slat for construc-

Slat designs

when power fails.

Prepare walk-doors and perhaps summer ventilation panels to be propped open part way or fully.
 Consider a stand-by generator to augment hand-opened doors: operate pit fans and in hot weather, circulating fans.
 Consider automatic telephone that dials selected numbers

crowded, larger hogs can be marketed early. Sows are often rebred during the first or second heat period

As they approach market weight, and if the finishing unit is

after weaning, and farrow about 16 weeks later

Put more pigs per pen if you have only one pen size. Move pigs to larger pens, or reduce number of pigs per pen. at about 17 weeks (125 lb).

Return sows to breeding and gestating facilities. More pigs to finishing unit at 10 weeks (60 h): As farrowing intensifies to more than 6 times per year, pigs may be moved at about 8 weeks.) Put into smaller pens if you have two pen sizes.

weather, cold weather, who to phone for additional advice, etc.

Have someone baby-sit your animals if you are going to be away for more than a few hours, if there are storm warnings out, or if your herd is in an especially sensitive stage (a number of new-born liters, for example).
 Post instructions on what to do in hot weather, mild

or near the farmstead

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

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b/ Wean pigs at 4-6 weeks (20-25 lb)

Move pigs to nursery.

Return sows to breeding and gestation facilities. Wean pigs at 3-6 weeks, putting 3-4 litters together.

Install a loud automatic warning system to alert anyone at

Protecting swine from fan failure.

watts (2000 Btu) per stall

farrowing.

If no floor heat is used, provide overhead heat of about 600

connums Slats Design Loads

beams

50 plf

100 pif

150 plf

65 psf

WEEKS:

0

3Wean 5

0 12

17

24

,

Per foot of slat

Per sq ft floor area 35 psf 50 psf

1,8 0 A

4 x4 #3 4 x4 #3 4 x4 #3 4 x5 #4

---Width x depth, lower bars 3 4''x4'',#3 3 4''x4'/;"#4 4 5''x5'',#4 4 5''x5'/2',#5

4"x4",#3 4"x4"/;",#4 6"x5",#5 6"x6"/;",#5

SOWS

arrowing

Nursery

Breeding Unit

Gestating Unit

Farrowing

House

House errowing louse span 2

Pig

Finishing

Farrowing, sow-pig nursery, or gestation

PIGS:

House House -arrowing

arrowing

Pig Nursery

TYPICAL HOUSING CYCLES

Sow-Pig Nursery

Smaller Pens

Larger Pens

Market

5

Growing - Finishing Unit

slots

This plan is for a $24 \times 70^{\circ}$ (or 66') stud-frame building housing 20 sows in farrowing stalls. Year round forced ventilation is provided Manure is flushed from pit under slotted floor.

Farrowing Staffs on Slotted Floors Plan NWPS-72681

Flush Tank>

'-6" Alle

Plan A shows 7 stalls on 8' slats. Plan B shows 2 ½" slats at the back of each stall and floor heat for pig comfort at the front of

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4'-4" Alley sildis Ol

carefully and accurately. Heat: Desired room air temperature is about 72°F. Provide a

Pits: Use 3500 psi concrete with 7% air entrainment. Use steel of at least 40,000 psi yield. Install steel and concrete

Fans: Select exhaust fans for the stated capacity at 107 static If stalks are longer than 7 ft, increase building width to 26'-0"

General Specifications

30,000 Btu space heater (1500 Btu/stall) with a thermostat set at

If heat is supplied in the floor (Plan C) or with heated mats

on the slats (Plan A or B), provide about 150 watts (500 Btu) per stall floor heat, plus about 250 watts (900 Btu) per stall

rate

Lither

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

Farrow during 3 weeks. Some stalls can be used twice.

a) Move sows and litters to sow-pig nursing pens at 1-3 weeks, depending on how soon the farrowing stalls are needed for the next sows.

Plan B

Partly slotted floor. Slats under rear of stalls

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

Lumber Specifications

Plywood Irusses

See Truss Page

Siding and Wall Lining and Ceiling—%

Roof Sheathing--- /a" C-C Ext ('Identifica-tionIndex' = 20/0)

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Overlay

Building space and production cycles.

66'-0" Option B, siphon flush 70'-0" Option A, flush tank

1-6" Alle silletS 01

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Plan A

Partly slotted floor. Slats under stalls

24'-0

General Floor Plan

with overhead heat lamps or radiant heaters for use during

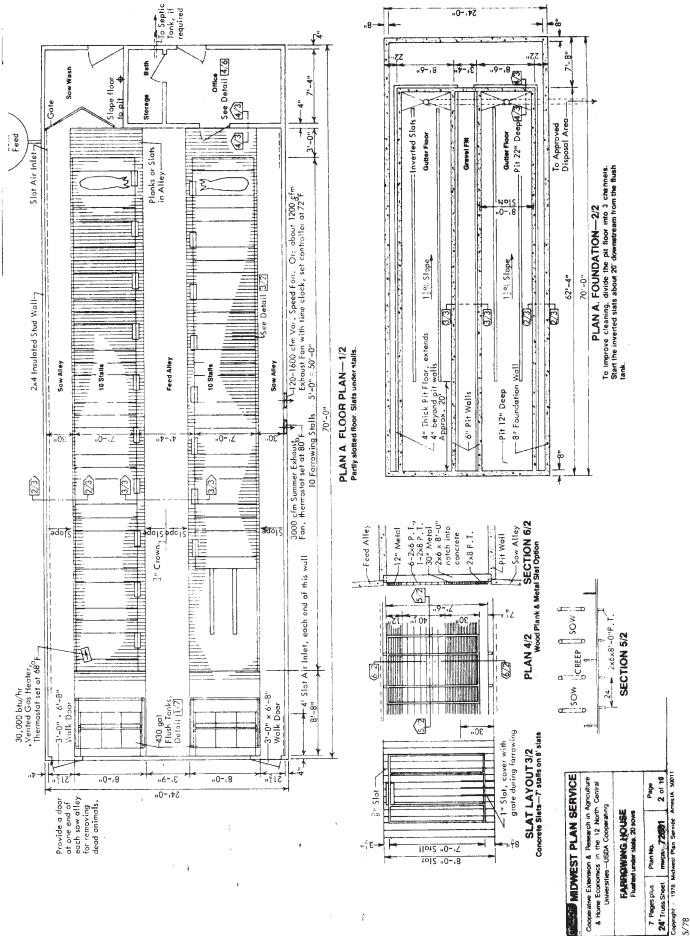
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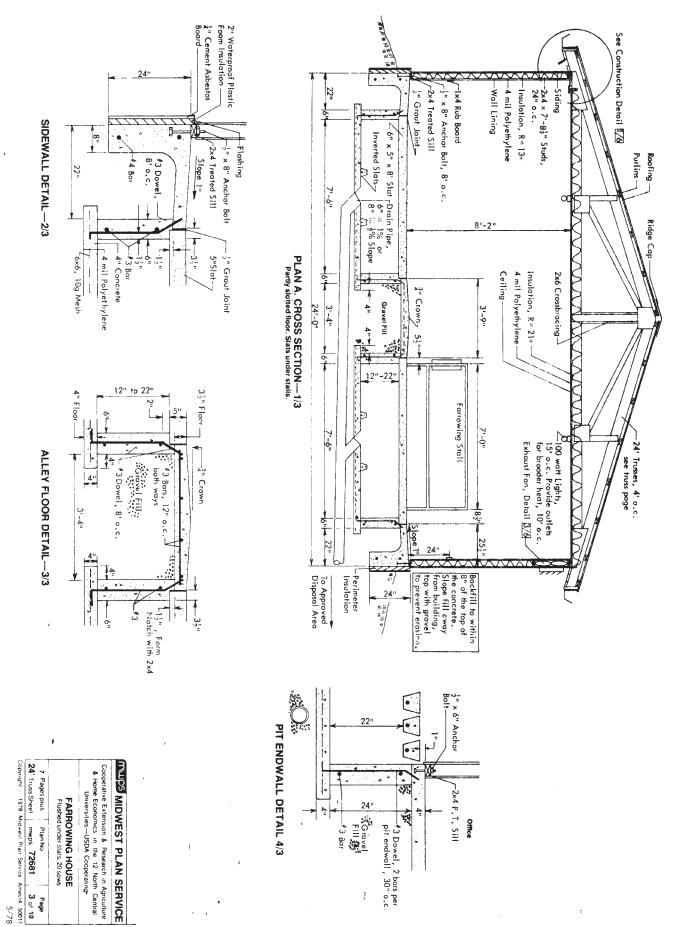
Pressure Preservative Treated (Southern Yellow Pine or equivalent) Creosote—8 pcf. Penta—0.40 pcf. ACC—0.25 pcf. ACA or CCA (Type A or B)—0.23 pcf.

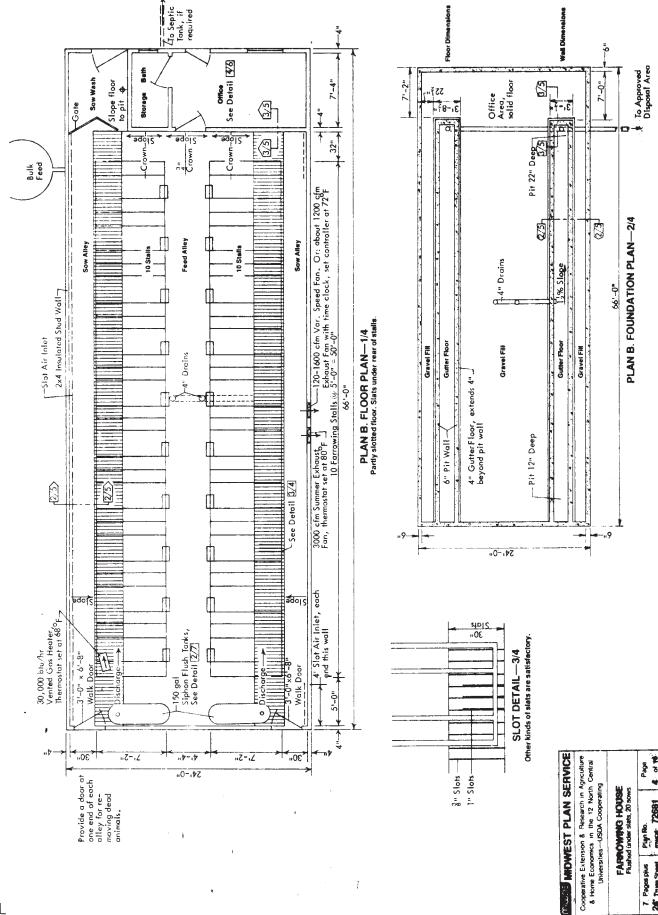
Sills and Fascia

easier to clean than plywood.

FRP Plywood is a composite material using plywood overlaid with a layer of plastic it is moisture resistant and more durable and







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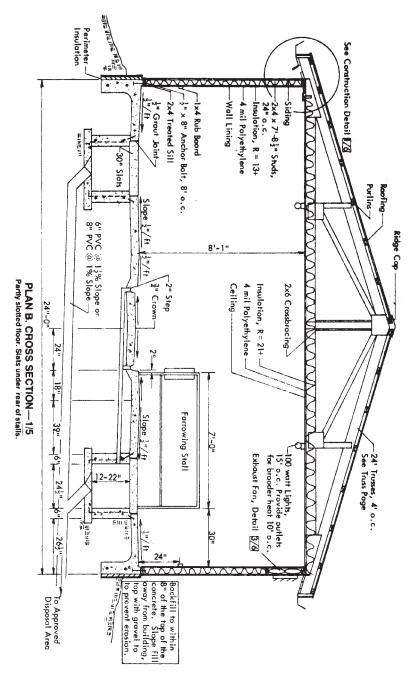
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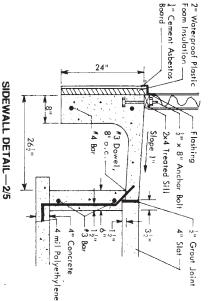
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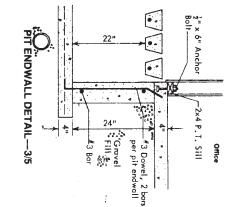
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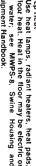
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Creep Heat Use heat lamps, radiant heaters, heat pads, or floor heat. Heat in the floor may be electric or hot water; see MWPS-8, Swine Housing and Equipment Handbook.



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