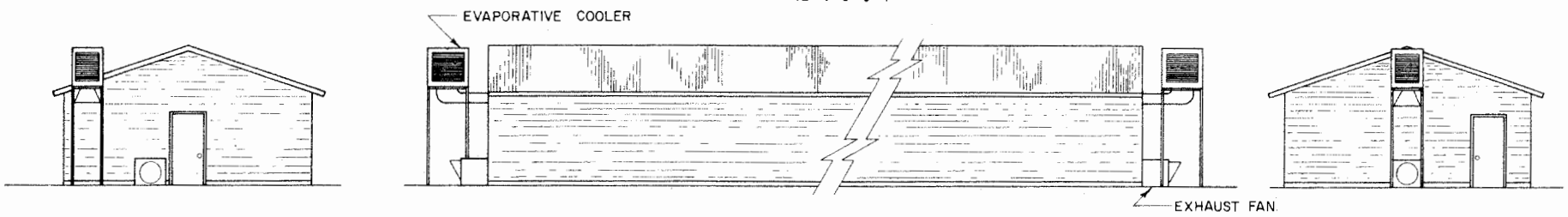


**FLOOR PLAN**  
 Scale:  $\frac{1}{8}'' = 1'-0''$   
 0 2' 4' 6' 8'  
 12' 1' 3' 5' 7'

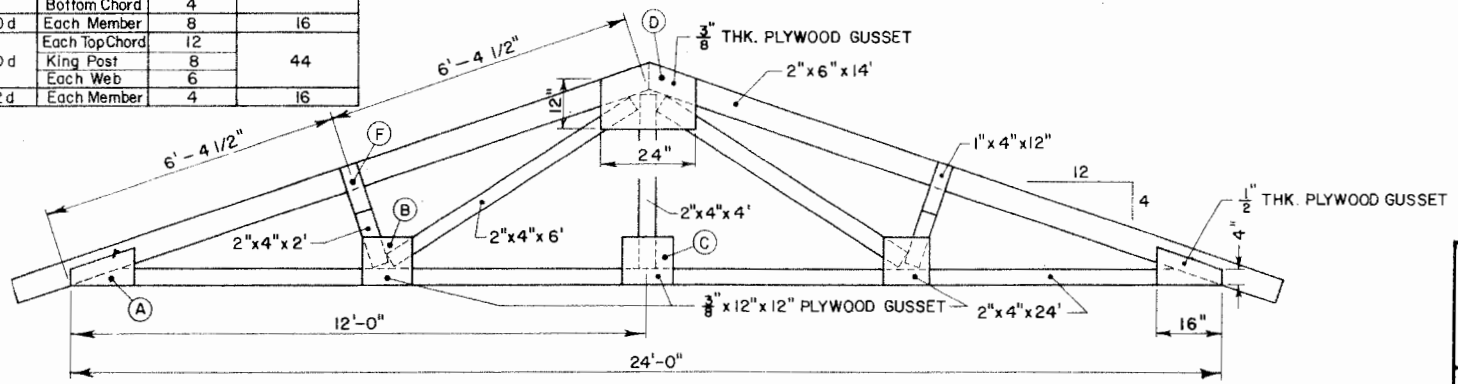


**ELEVATIONS**  
 Scale:  $\frac{1}{8}'' = 1'-0''$   
 0 2' 4' 6' 8'  
 12' 1' 3' 5' 7'

**NOTE:**  
 When Building Or Enlarging A Confinement Swine System You Are Encouraged To Employ A Registered Consulting Agricultural Engineer. The Engineering Consultant Will Be Concerned With Providing The Best System Designed For Your Specific Needs.

- TRUSS NOTES:**
1. Pre-Fabricated Trusses With Metal Press-Plate Connectors May Be Used.
  2. Apply Gussets On Both Sides Of Joint Except On End Trusses.
  3. Drive One Half Of All Nails Listed From Each Side Of Joint.
  4. Use Deformed-Shank High-Carbon Steel Nails.
  5. Use Exterior-Grade C-C Plywood For Gussets.

JOINT	NAIL SIZE	MEMBER	NO REQ'D	NO PER TRUSS
A	12d	Each Member	14	56
		Long Web	6	
B	10d	Short Web	4	28
		Bottom Chord	4	
C	10d	Each Member	8	16
		Each Top Chord	12	
D	10d	King Post	8	44
		Each Web	6	
F	12d	Each Member	4	16



**NAILED TRUSS DETAILS**  
 Scale:  $\frac{1}{2}'' = 1'-0''$  12' 6" 0' 1' 2'

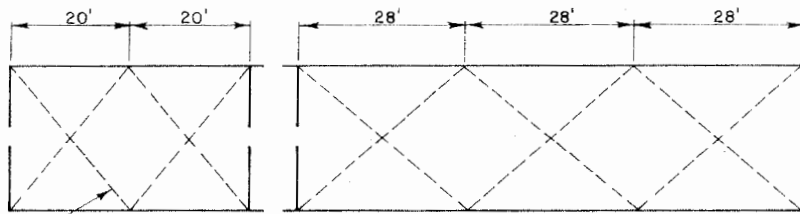
**NOTE:**  
 CONSULT LOCAL HEALTH AND BUILDING CODE AUTHORITIES BEFORE STARTING CONSTRUCTION

BASED ON: OKLA. STATE UNIV.  
 PLAN NO. OK-726-24

**LSU**  
**AgCenter**  
Research & Extension

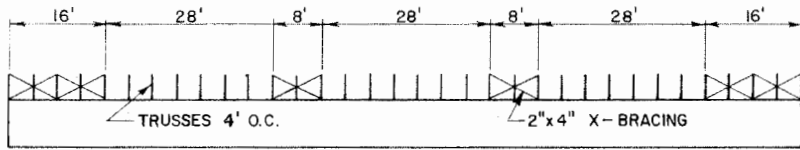
**FARROWING HOUSE**  
 FOR 30 SOWS

OK.	'76	<b>6247</b>	SHEET 1 OF 5
-----	-----	-------------	--------------



1" WIDE "BANDING STRAP", SEE DETAIL THIS SHEET

PLAN VIEW



ELEVATION

CROSS BRACING DETAILS

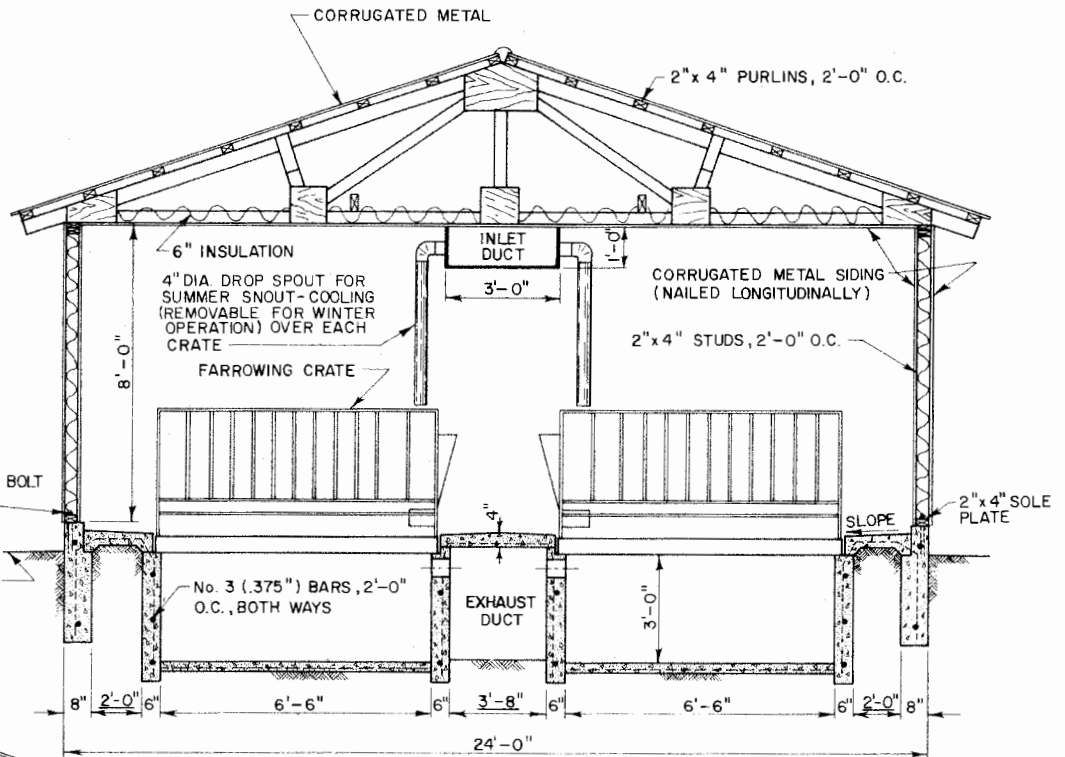
Scale:  $\frac{1}{16}'' = 1'-0''$

0 4' 8' 12' 16'



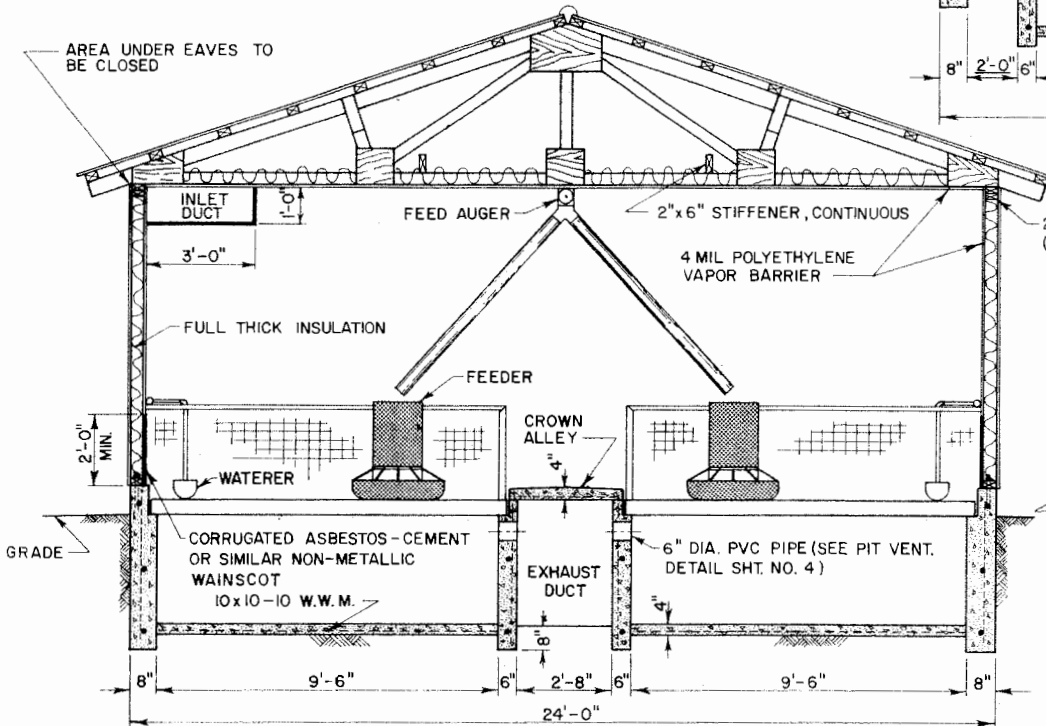
$\frac{3}{4}'' \times 12''$  ANCHOR BOLT  
4'-0" O.C.

GRADE



SECTION B-B

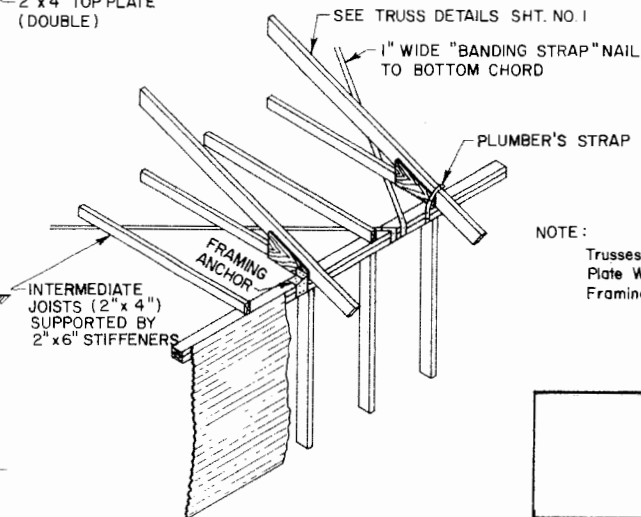
NOTE: DIMENSIONS UNDERScoreD THUS: 2'-0'' INDICATES DRAWING IS NOT TO SCALE.



SECTION C-C

SCALE:  $\frac{3}{8}'' = 1'-0''$

12" 0 1' 2'



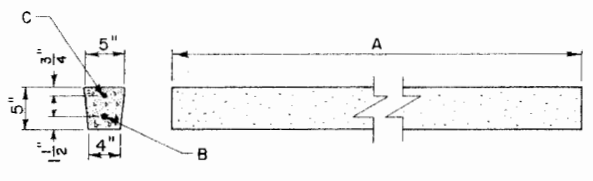
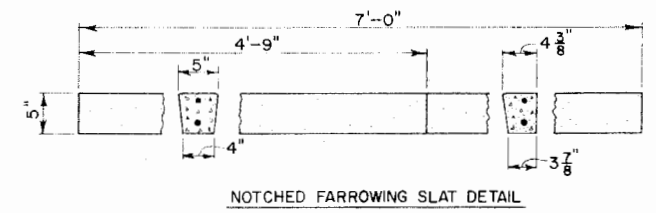
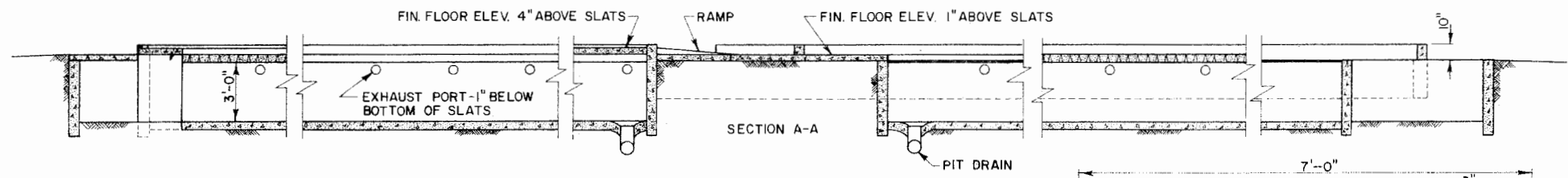
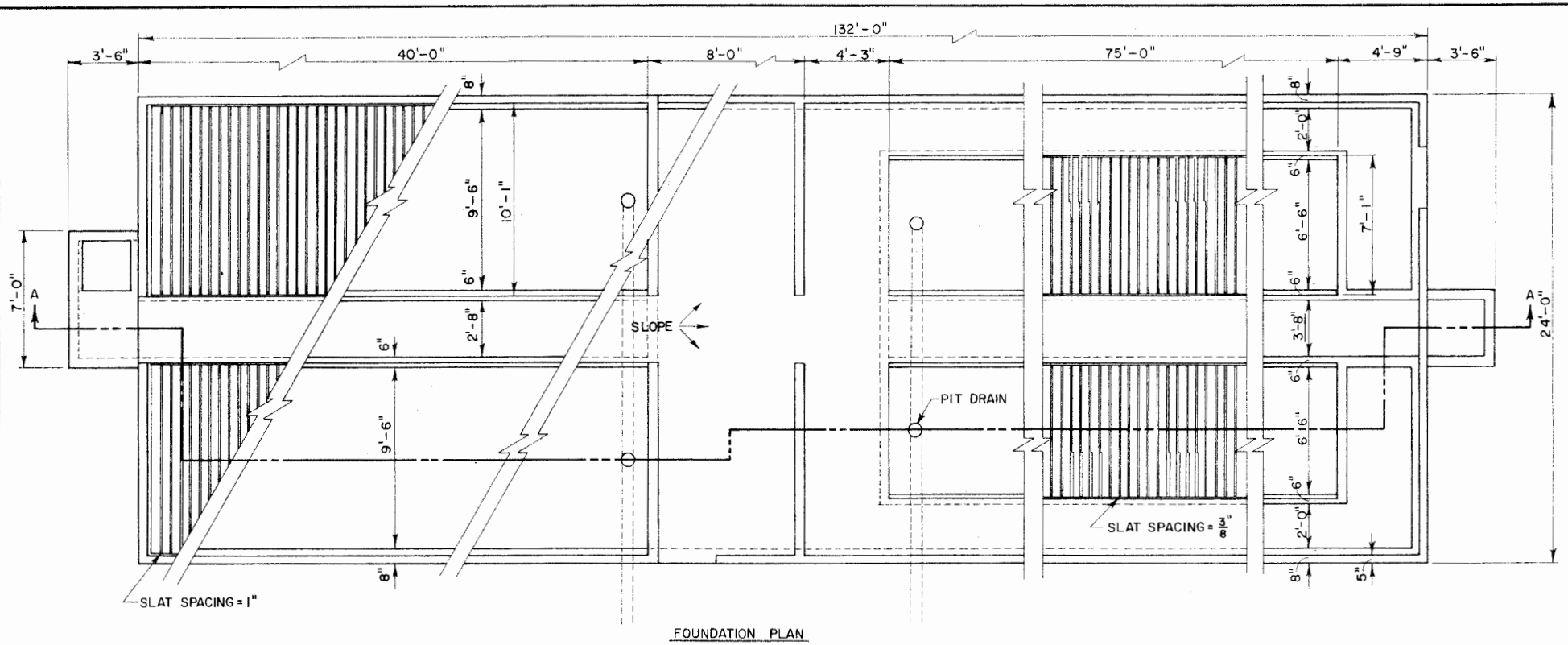
TRUSS ANCHORAGE DETAIL

NOTE:  
Trusses To Be Anchored To Double Plate With Plumber's Strap Or Framing Anchors As Shown

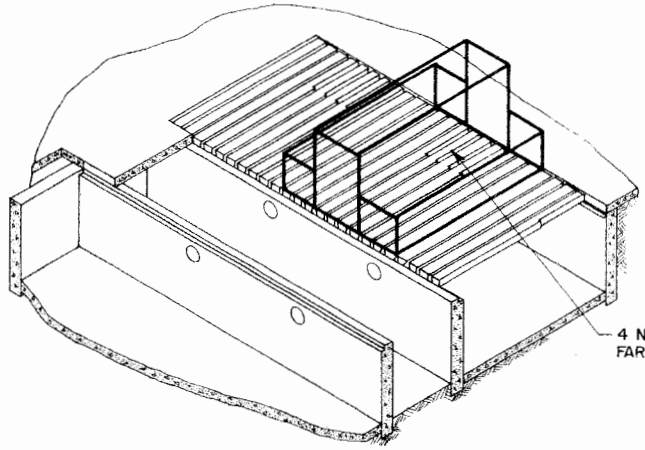


FARROWING HOUSE  
FOR 30 SOWS

OK. '76 6247 SHEET 2 OF 5

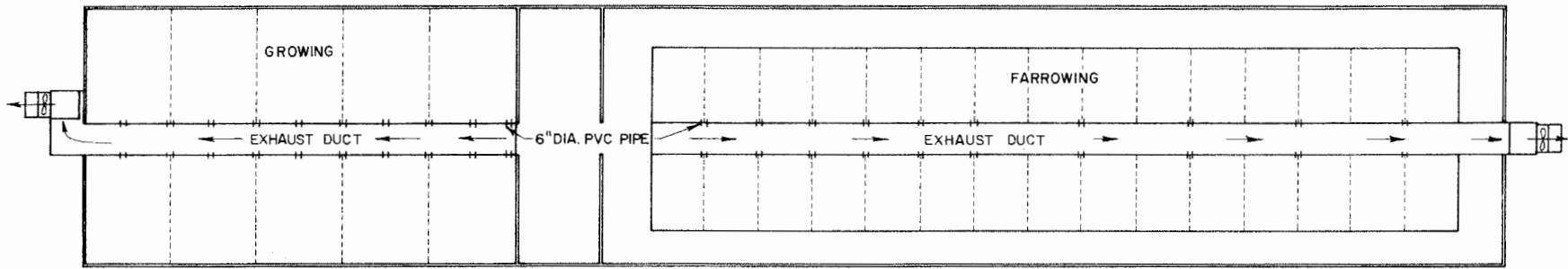


	FARROWING	GROWING
A	7'-0"	10'-0"
B	No. 4 BAR	No. 5 BAR
C	No. 2 BAR	



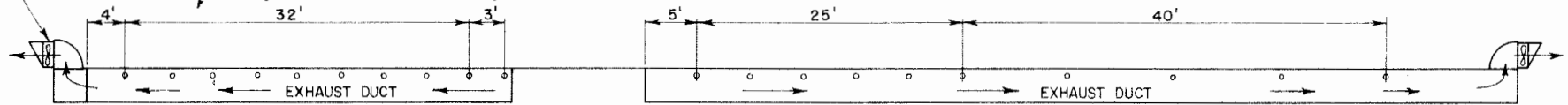
**LSU**  
AgCenter  
Research & Extension

<b>FARROWING HOUSE FOR 30 SOWS</b>		
OK. '76	<b>6247</b>	SHEET 3 OF 5



PLAN VIEW

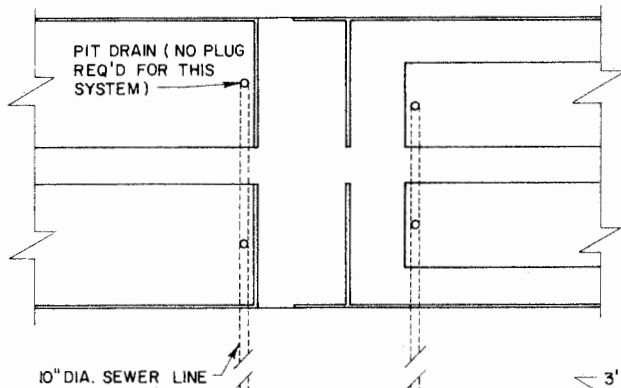
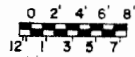
EXHAUST FAN - Approximately 1,000 To 4,000 cfm Variable Speed Fan With Solid State Control Package. Minimum Volume Must Be Adjustable. 2 REQ'D.



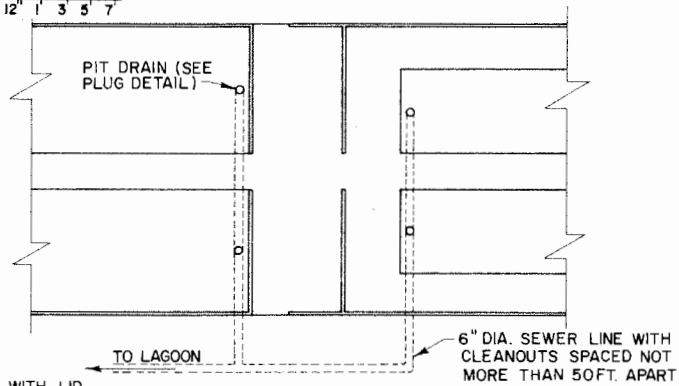
LONGITUDINAL SECTION

PIT VENTILATION DETAIL

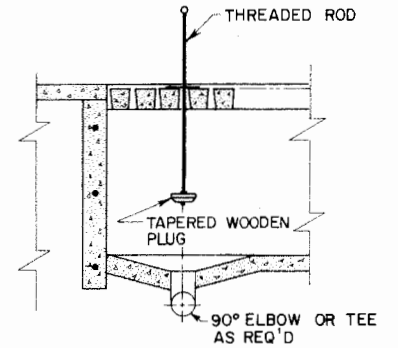
Scale:  $\frac{1}{8}'' = 1'-0''$



PIT DRAIN DETAIL FOR HAULING OR IRRIGATION

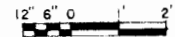


PIT DRAIN DETAIL DRAIN TO A LAGOON



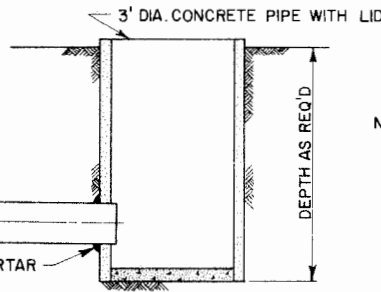
PIT PLUG DETAIL

Scale:  $\frac{1}{2}'' = 1'-0''$



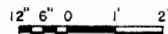
NOTE:

- All Pit Floors To Slope Not More Than 1 in. Per 20 Ft. To Drain.
- Pit Drain Lines To Slope 1 Ft. Per 100 Ft.



CROSS SECTION OF PUMPING PORT

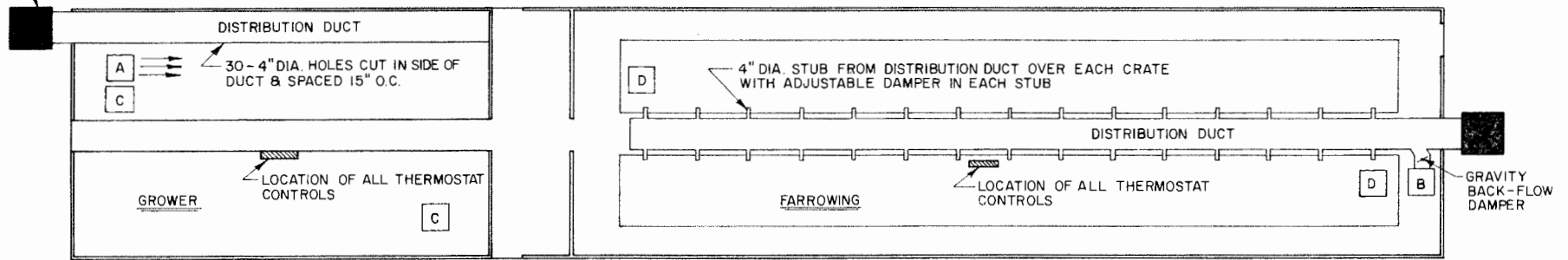
Scale:  $\frac{1}{2}'' = 1'-0''$



FARROWING HOUSE FOR 30 SOWS

OK. '76 6247 SHEET 4 OF 5

-BOTTOM DISCHARGE EVAPORATIVE COOLER (INDUSTRIAL WEIGHT) WITH PADS ON 4 SIDES, 7,000 CFM (MINIMUM) FAN DELIVERY AT  $\frac{1}{4}$ " STATIC PRESSURE



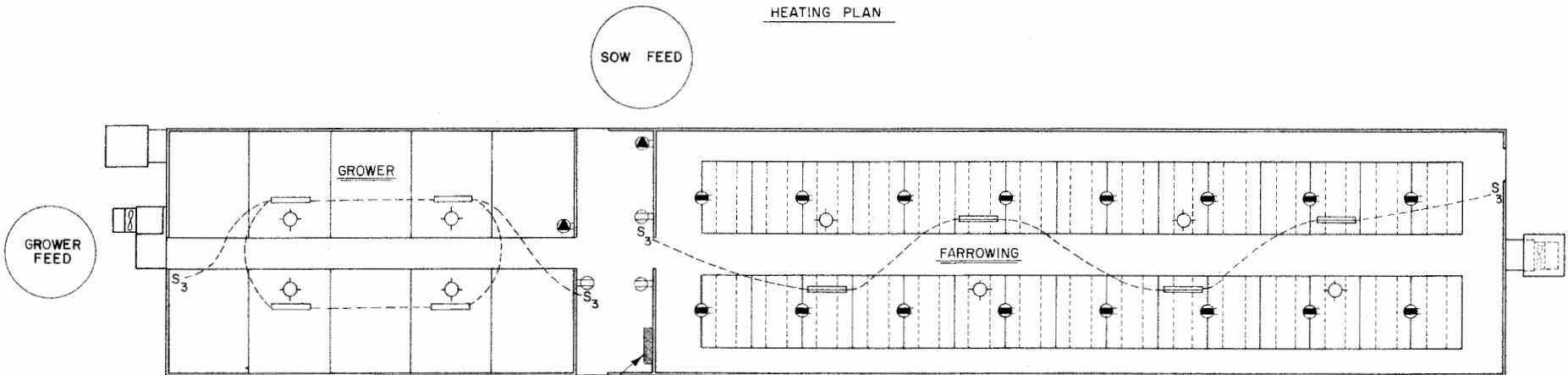
THERMOSTAT	TYPE	SETTING
Safety	Close On Rise	55 °F
Heater	Open On Rise	65 °F
Fan - Nominal	Solid State Panel	70 °F
Cooler Fan	Close On Rise	78 °F
Cooler Water Pump	Close On Rise	80 °F

**HEATING OPTIONS— GROWER**  
 A: 100,000 Btu/Hr (Minimum) Gas-Fired Heater With A Fan Throw Of 20'-30'  
 C: 2 - 40,000 Btu/Hr Electric Heaters With A Fan Throw Of 20'-30'

THERMOSTAT	TYPE	SETTING
Safety	Close On Rise	55 °F
Heater	Open On Rise	70 °F
Fan - Nominal	Solid State Panel	75 °F
Cooler Fan	Close On Rise	80 °F
Cooler Water Pump	Close On Rise	82 °F

**HEATING OPTIONS— FARRROWING**  
 B: 100,000 Btu/Hr (Minimum) Gas-Fired Heater With A Centrifugal Fan Capable Of Air Delivery At  $\frac{1}{4}$ " Static Pressure  
 D: 2 - 40,000 Btu/Hr (Minimum) Electric Heaters With A Fan Throw Of 50'-70'

**HEATING PLAN**



**SYMBOLS & LEGEND**

- Ceiling Mounted Duplex Outlet For Heat Lamps
- Duplex Outlet
- ⊙ Switch Controlled Outlet For Feed Augers
- ▬ Controlled Lighting - Farrowing
- ▬ Controlled Lighting - Grower
- Continuous Lighting

- POWER PANEL - Provide Separate Circuits For:**
- Feed Augers
  - Each Exhaust Fan
  - Each Evaporative Cooler
  - Heat Lamp Outlets (5 Duplex Outlets Per 20 Amp Circuit, Max.)
  - Continuous Lighting & Gas Fired Heaters
  - All Other Lighting & Convenience Outlets As Req'd

**ELECTRICAL PLAN**

1. Since Only One Fan Serves Each Animal Space A Fan Failure Warning System Is Required & Should Be Monitored At All Times. A System Which Monitors Current In Each Fan Circuit Is Recommended Over One Which Monitors Voltage Only. The Warning System Should Activate A Battery Operated Bell At The Operator's Residence.
2. A Stand-By Generator Capable Of Picking Up The Entire Electrical Load Is Recommended.
3. The Building Foundation & Pit Walls May Be Formed By Trenching (As Drawn), By Forming, Or By Concrete Masonry Construction.
4. Lining Material May Be Corrugated Metal Placed Longitudinally, Vertical Joints Caulked, As Drawn, Or Any Other Impact Resistant Material Which Will Not Be Damaged By High Pressure Water Cleaning.
5. Building Should Be Adequately Protected From Lightning



**FARRROWING HOUSE FOR 30 SOWS**

OK. '76 6247 SHEET 5 OF 5

## Disclaimer

This site makes available conceptual plans that can be helpful in developing building layouts and selecting equipment for various agricultural applications. These plans do not necessarily represent the most current technology or construction codes. They are not construction plans and do not replace the need for competent design assistance in developing safe, legal and well-functioning agricultural building system. The LSU Agriculture Center, the Mid-West Plan Service, the United States Department of Agriculture and none of the cooperating land-grant universities warranty these plans.